



# 2026

LIGHTING CATALOGUE



# NVC LIGHTING IS THE BRIGHTER CHOICE

## EXPERIENCE & EXPERTISE

- In-depth expertise in the lighting industry
- Delivery of innovative, high-performance lighting solutions
- Focus on reliability, quality and sustainability in every design

## CUSTOMER-FOCUSED, 7-YEAR WARRANTY

- Covered for unlimited hours
- Valid from date of installation
- Simple to follow terms
- Batteries also covered

## SELECT WITH CONFIDENCE

- Rigorous testing ensures compliance with regulatory, safety, and performance standards
- Guaranteed quality and safety for every installation
- Accredited as a leader in quality, safety, performance, and sustainability (ISO 9001, 14001, 45001, 22301 and 50001)

## COMMITMENT TO SUSTAINABILITY

- Dedicated to a sustainable lighting journey
- Key product ranges equipped with Environmental Product Declarations (EPDs)
- Designs align with circular economy principles and CIBSE TM66 guidelines





## TRUST US TO DELIVER

- >99% On-Time-In-Full (OTIF) delivery rate
- Stockholding of >1500 product lines valued at >£6 million
- 100% inspection and testing policy for assured quality

## TAILORED SOLUTIONS, PERSONALISED SERVICE

- Bespoke technical advice and support
- Custom lighting design services for all projects
- Dedicated sales and consultation services for complex projects

## PART OF NVC INTERNATIONAL GROUP

- Backed by NVC International, a leader in lighting solutions
- Access to an extensive portfolio designed for diverse industries worldwide
- Strength and innovation from a globally trusted brand





# A FORCE FOR GOOD

We take our responsibilities for our physical environment seriously



## Carbon Neutral

We are certified carbon neutral by Carbon Neutral Britain. CO<sub>2</sub> emissions we cannot eliminate are offset via audited offsetting initiatives.



## Net zero by 2050

We have set a target to be net zero by 2050 and we are on track to achieve that with our emissions down by over 44%, from 231 tCO<sub>2</sub>e in 2021 to just 129 tCO<sub>2</sub>e in 2024.



## Electric vehicles

To encourage take-up of electric vehicles we offer free EV charging for employees and visitors at our premises in Birmingham.



## No waste to landfill

Since 2021 we have sorted and recycled all our waste so that none is sent to landfill.



## Recyclable Packaging

We have eliminated plastic tape and metal staples from our packaging so that it is all now recyclable.



## LiFePO<sub>4</sub> batteries

We were an early adopter of energy-saving, longer-lasting, lithium batteries for our emergency lighting products. No NiCd batteries remain in our product range.



## Products designed to last

Our 5 and 7-year warranties are evidence of the effort we make to create products that last longer than many others in the market. Longer product life equates to less waste.





### Products designed on circular economy principles

More of our products are now designed on TM66 principles so that they can be re-used, re-manufactured and eventually re-cycled cost-effectively.



### 108kW of solar panel capacity installed in 2025

Our solar panels are expected to generate >95,000Kwh per year, equivalent to 54% of our electricity consumption, or 24 tCO<sub>2</sub>e per year.



### EcoVadis Silver Accredited

This places us in the top 15% of all companies assessed for their performance in the fields of environmental, labour, human rights, ethics and sustainable procurement management.

The way we manage our own business, our supply chain and our interactions with our local community are making a positive difference to people's lives.



### Living the Values Awards

We have a cash award each quarter for the employee who has most clearly demonstrated in their work the values we promote. These cover areas such as integrity, innovation, inclusivity and customer care.



### Quality Supplier Assessments

When we audit a supplier we are not only looking at their technical expertise. Audits also examine their business ethics, their adherence to ILO codes of practice, minimum wage legislation and their health-and-safety management.



**Save the Children**

**MACMILLAN  
CANCER SUPPORT**

### Community Engagement

Recent activities have been run in support of Save the Children, Trussell (a food bank charity) and Macmillan Cancer Support.

# NEW FOR 2026

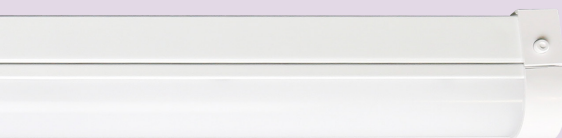
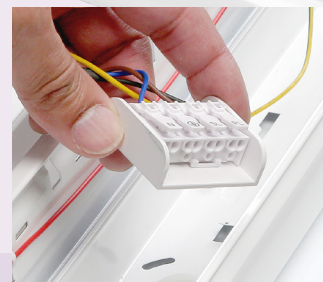
## TEXAS PRO

This is the best, most versatile, most reliable and quickest batten to install on the market.

The light engine hinges open with a simple push-button catch, the terminal block is moveable, and the emergency and sensor options can be supplied ready-fitted, or as plug-in retrofit extras.

It comes with a 7-year warranty, Tridonic driver and it is power and CCT selectable too.

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## RANGER

A cost-effective batten, stuffed full of great features like a moveable terminal block and power and CCT selection.

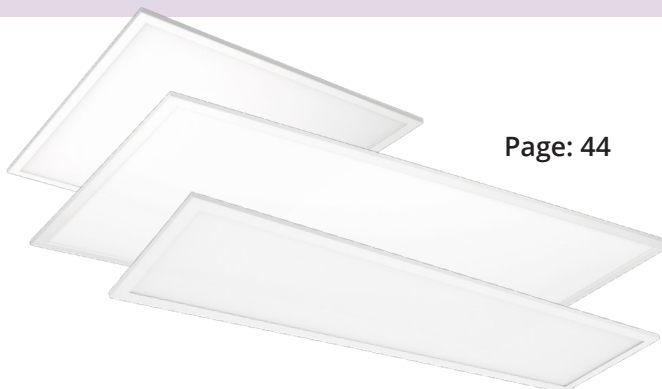
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## STERLING PRO

Our upgraded PROe panel now comes as power selectable, in 3 sizes, and choices of CRI and CCT.

At 187 l.lm/c.W this is our most efficient panel yet, making it a great choice for offices, education & healthcare facilities.

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## GREENLAND PRO

GREENLAND PRO is packed full of features to make it the easiest non-corrosive fitting on the market to install.

Designed for a first fix/second fix approach with a detachable light-engine and a moveable terminal block, this is sure to please the most pressured contractors in the land.

For the end-user, it features a 100,000 hours rated Tridonic driver for reliability, power and CCT selection and a wide range of dimming, sensor and emergency options.

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## DALI ADDRESSABLE TEST MODULE

Our new DALI addressable test module is a plug-in conversion kit that turns a standard fitting into a DALI addressable M3 fitting. It can be used in DALI addressable emergency test systems as well as in CASAM-BI and HubSense addressable systems.

The weak point in manual emergency lighting systems is the testing regime. Our DALI addressable test module makes it easier than ever to upgrade to a fully automated addressable test system.



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## CASAMBI

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We now offer CASAMBI as a smart wireless control option on most of our PROe fittings. The CASAMBI logo is displayed in association with every luminaire on which it is available. This is in addition to HubSense which has already proved popular.

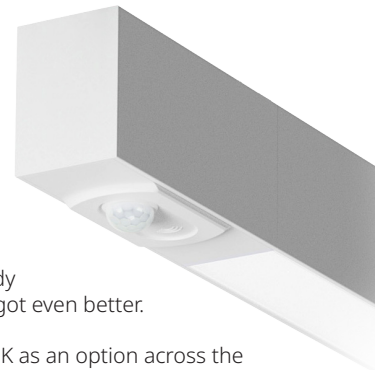
Functionally, CASAMBI and HubSense are very similar and we are pleased to be able to offer them both. See pages 164-166 (CASAMBI & HubSense pages in CONTROLS section.)



## LYNX PRO

With increased output – up to >46,000 lumens - and improved corrosion resistance, LYNX PRO is ready for use on sports grounds, industrial and coastal areas, where long-term reliability, efficiency and accurate light distribution are all a priority.

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## DALLAS PRO

DALLAS PRO is already popular, and it's just got even better.

We have added 3000K as an option across the range, and we have added a PIR sensor in a neat and unobtrusive housing and a Tridonic driver.

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## MAUI

MAUI is a shallow downlighter with aluminium body & opal diffusers, available in three different diameters.

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## MONTANA

MONTANA is an all-new low glare downlighter available in two diameters. Built with Eco Design directives in mind with changeable parts.

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## TEMPE PRO

TEMPE PRO is a linear style high in heavy duty construction, delivering high light levels in industrial & retail premises.

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# NEW FOR 2026

## ATLANTA

ATLANTA is an interior bulkhead with an optional built-in PIR sensor.

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## AMARILLO

Delivering up to 3500 lumens, AMARILLO strengthens our range of high-output interior bulkheads. It is power and CCT selectable, available in 3 sizes and has a choice of decorative trims.

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## BELFRY PRO

We have added 2700K as an option on BELFRY PRO to make it suitable for a wider range of projects, and a Philips driver.

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## COLUMBIA

## ALBERTA

## COLUMBIA & ALBERTA

COLUMBIA & ALBERTA are two all-new post-top fittings, both are power and CCT selectable, with an optional dusk/dawn photo-cell.

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## RENTON

RENTON is a new, high-output bollard. Power and CCT selectable, it is also IP66 and IK10 rated.

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# OUR COMPLETE RANGE OF LIGHTING SOLUTIONS

## PROe Range

We're transitioning all of our PRO products to the new **PROe: Sustainable Lighting range**.

Key highlights include:

- Environmental Product Declarations (EPDs) for key products
- 7-year warranty, leading the market in reliability and peace of mind
- Extended lifespans and eco-conscious design
- A focus on sustainable innovation, helping to build a greener future

The PROe range is the ideal choice for forward-thinking, sustainability-driven projects.



## LiFe Emergency Range

Products in our LiFe Emergency Range now feature Environmental Product Declarations (EPDs), underscoring our commitment to sustainability. This range is built with advanced lithium battery technology (LiFePO<sub>4</sub>), offering:

- Longer battery life
- Enhanced efficiency
- Reduced environmental footprint

With a 7-year warranty, including battery coverage from the date of installation, the LiFe Emergency Range delivers reliable performance in emergency lighting while prioritising eco-conscious innovation.



## Core Range

Our Core range features a widely stocked range of popular lighting products that are perfect for everyday needs. Benefits include:

- Excellent performance ratings
- 5-year warranty
- Reliable options for various lighting applications

These trusted products are ideal for your standard lighting requirements, offering value and dependability.



# BEST-IN-CLASS WARRANTY



- **Unlimited hours** of usage
- Valid from **date of installation**
- **Simple terms**
- **No registration** required
- Also **covers batteries**



# VERTICAL SECTORS

NVC provides a complete range of lighting solutions designed to meet the needs of many sectors.

With products and services tailored to various environments, we support specifiers, installers, and end-users at every stage.

Check our web-site for case studies.



SPORTS & RECREATIONAL



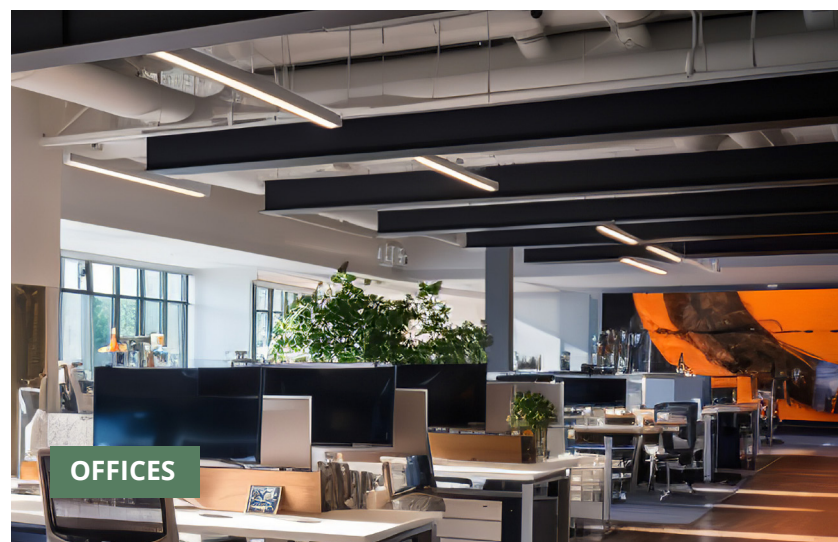
INDUSTRIAL



COMMERCIAL



HOTELS & HOSPITALITY



OFFICES





HEALTHCARE



SOCIAL HOUSING



RESIDENTIAL



WAREHOUSING



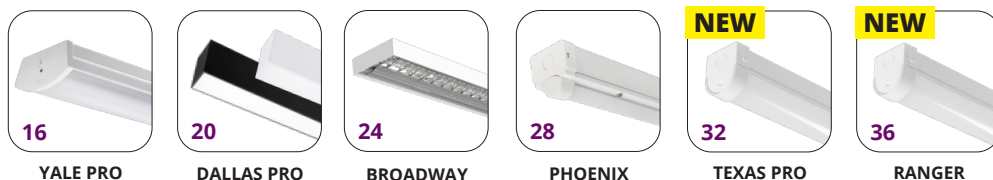
EDUCATION



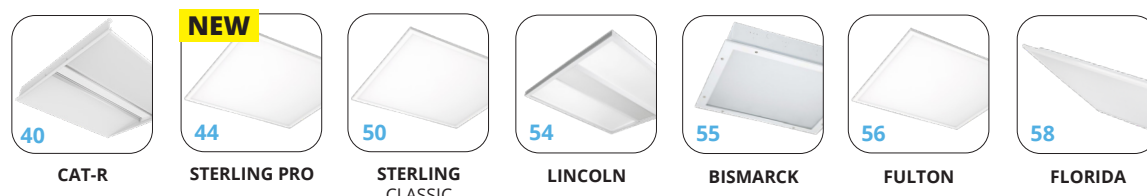
DATA CENTRES

# CONTENTS

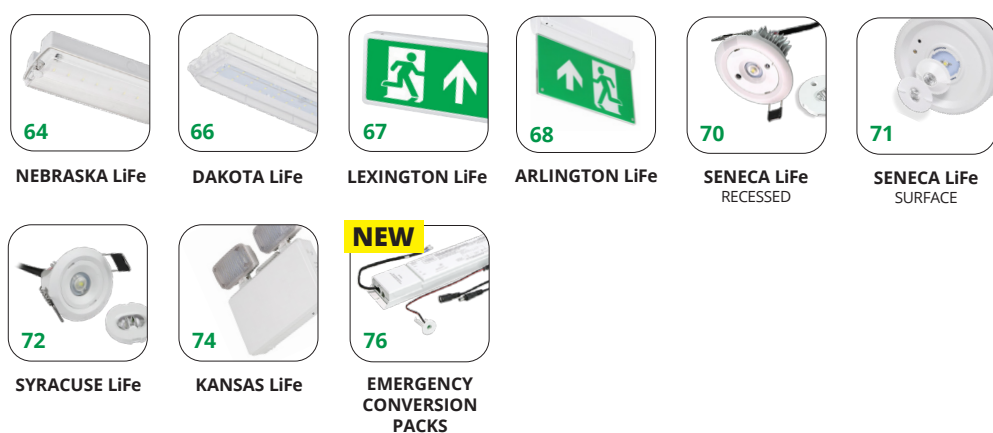
## SURFACE & SUSPENDED



## PANELS



## EMERGENCY LIGHTING



## INDUSTRIAL





## AMENITY



## RECESSED DOWNLIGHTS



## FLOODLIGHTING



## STREET LIGHTING & POST-TOP



## LIGHTING CONTROLS



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RANGER

# YALE PRO

Impact resistant and power selectable fitting for projects requiring UGR<19

Delivers  
**UGR<19**  
on almost any project



## APPLICATIONS

- Corridors and circulation areas in schools, colleges and hospitals
- Classrooms
- Hospital wards
- Communal areas in public buildings

## SPECIFICATION

- Steel body, powder coated in white (RAL9016)
- 20mm conduit entry point in end caps
- Opal, PC, TP(a) rated microprismatic controller, suitable for projects requiring low glare
- LEDs mounted on steel gear tray with quick-release clips
- Loop-in / loop-out terminal block
- Power selectable driver included on all non-dimming variants
- Tridonic or Osram driver

## OPTIONS

**Emergency** – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

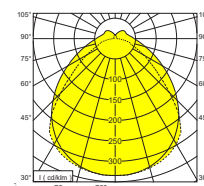
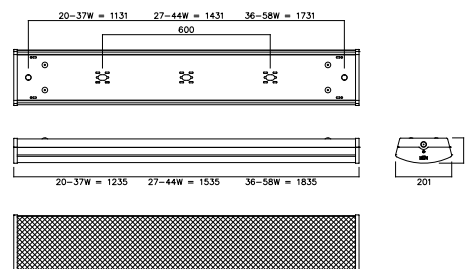
- M3L: Manual test
- STM3L: Self-test
- DAM3L: DALI addressable test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

## Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

## ACCESSORIES

- Wire suspension kit available as listed



## KEY FEATURES

**LOW GLARE** – Achieves UGR<19 in most applications

**ROBUST** – IK10 rated so suitable for areas where impact resistance is required

**POWER SELECTABLE** – Choice of 4 wattages via dip-switch selection

**EFFICIENT** – Achieves up to 137 luminaire lumens per circuit watt

## SMART WIRELESS CONTROLS



CASAMBI

YALE PRO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



# YALE PRO



## EASY TO INSTALL

- Detachable gear tray secured on spring clips with safety retaining straps
- Slide-out end-caps stay attached to the body during installation
- Piano-key terminals for loop-in / loop-out wiring
- Choice of wiring: rear (BESA) or end (20mm conduit) entry

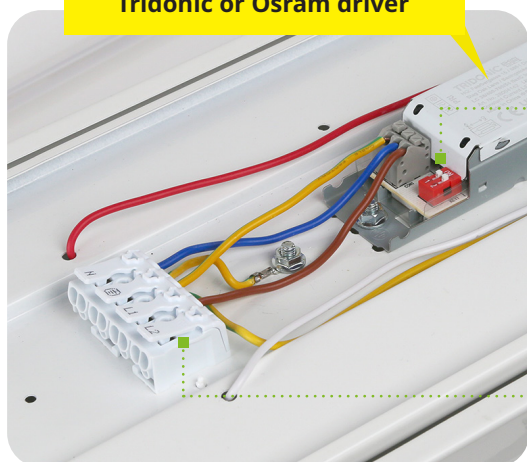
## RUGGED CONSTRUCTION

- Steel body
- End-caps secured with screws rather than clipping on
- Polycarbonate controller
- IK10 impact rated

## IDEAL FOR CLASSROOMS AND HOSPITALS

- Microprismatic controller delivers  $UGR < 19$  in a typical installation
- Power selectable. DIP switches allow the output to be adjusted to suit each application.
- 12% uplight reduces glare and prevents dark ceilings
- Smooth exterior gives a wipe-clean surface

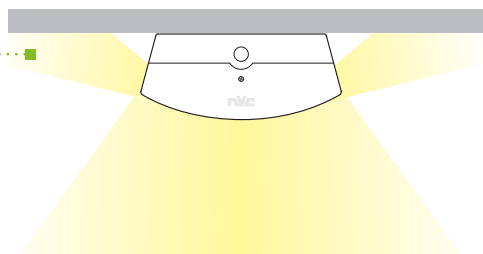
Tridonic or Osram driver



DIP SWITCHES on non-dimming drivers allow 4 different power settings to be selected

4-POLE PIANO KEY TERMINALS with loop-in/loop-out for quick and easy wiring

YALE PRO's light distribution is perfect for classrooms





# YALE PRO

Standard, including manual test emergency (M3L)

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)	EFFICACY (Llm/c.W)	DIMMING	SENSOR	EMERGENCY	CRI	CCT (K)
NYA/4/20-37/840	1235	20 / 25 / 30 / 35	2600 / 3244 / 3861 / 4455	129 / 130 / 128 / 127				>80	4000
NYA/4/20-37/M3L/840	1235	20 / 25 / 30 / 35	2600 / 3244 / 3861 / 4455	129 / 130 / 128 / 127			M3L	>80	4000
NYA/5/27-44/840	1535	27 / 33 / 38 / 43	3675 / 4401 / 5134 / 5710	135 / 133 / 137 / 134				>80	4000
NYA/5/27-44/M3L/840	1535	27 / 33 / 38 / 43	3675 / 4401 / 5134 / 5710	135 / 133 / 137 / 134			M3L	>80	4000
NYA/6/36-58/840	1835	37 / 46 / 49 / 58	5078 / 6211 / 6511 / 7648	134 / 134 / 133 / 132				>80	4000
NYA/6/36-58/M3L/840	1835	37 / 46 / 49 / 58	5078 / 6211 / 6511 / 7648	134 / 134 / 133 / 132			M3L	>80	4000

Digital Dimming (DD), including manual test emergency (M3L)

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)	EFFICACY (Llm/c.W)	DIMMING	SENSOR	EMERGENCY	CRI	CCT (K)
NYA/4/20/DD/840	1235	20	2600	129	Digital Dimming			>80	4000
NYA/4/20/DD/M3L/840	1235	20	2600	129	Digital Dimming		M3L	>80	4000
NYA/4/25/DD/840	1235	25	3244	130	Digital Dimming			>80	4000
NYA/4/25/DD/M3L/840	1235	25	3244	130	Digital Dimming		M3L	>80	4000
NYA/4/30/DD/840	1235	30	3861	128	Digital Dimming			>80	4000
NYA/4/30/DD/M3L/840	1235	30	3861	128	Digital Dimming		M3L	>80	4000
NYA/4/37/DD/840	1235	35	4455	127	Digital Dimming			>80	4000
NYA/4/37/DD/M3L/840	1235	35	4455	127	Digital Dimming		M3L	>80	4000
NYA/5/27/DD/840	1535	27	3673	135	Digital Dimming			>80	4000
NYA/5/27/DD/M3L/840	1535	27	3673	135	Digital Dimming		M3L	>80	4000
NYA/5/33/DD/840	1535	33	4401	133	Digital Dimming			>80	4000
NYA/5/33/DD/M3L/840	1535	33	4401	133	Digital Dimming		M3L	>80	4000
NYA/5/38/DD/840	1535	38	5134	137	Digital Dimming			>80	4000
NYA/5/38/DD/M3L/840	1535	38	5134	137	Digital Dimming		M3L	>80	4000
NYA/5/44/DD/840	1535	43	5710	134	Digital Dimming			>80	4000
NYA/5/44/DD/M3L/840	1535	43	5710	134	Digital Dimming		M3L	>80	4000
NYA/6/36/DD/840	1835	37	5078	134	Digital Dimming			>80	4000
NYA/6/36/DD/M3L/840	1835	37	5078	134	Digital Dimming		M3L	>80	4000
NYA/6/45/DD/840	1835	46	6211	134	Digital Dimming			>80	4000
NYA/6/45/DD/M3L/840	1835	46	6211	134	Digital Dimming		M3L	>80	4000
NYA/6/48/DD/840	1835	49	6511	133	Digital Dimming			>80	4000
NYA/6/48/DD/M3L/840	1835	49	6511	133	Digital Dimming		M3L	>80	4000
NYA/6/58/DD/840	1835	58	7648	132	Digital Dimming			>80	4000
NYA/6/58/DD/M3L/840	1835	58	7648	132	Digital Dimming		M3L	>80	4000

Microwave sensor (MW), including manual test emergency (M3L)

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)	EFFICACY (Llm/c.W)	DIMMING	SENSOR	EMERGENCY	CRI	CCT (K)
NYA/4/20-37/MW/840	1235	20 / 25 / 30 / 35	2600 / 3244 / 3861 / 4455	129 / 130 / 128 / 127		Microwave		>80	4000
NYA/4/20-37/MW/M3L/840	1235	20 / 25 / 30 / 35	2600 / 3244 / 3861 / 4455	129 / 130 / 128 / 127		Microwave	M3L	>80	4000
NYA/5/27-44/MW/840	1535	27 / 33 / 38 / 43	3675 / 4401 / 5134 / 5710	135 / 133 / 137 / 134		Microwave		>80	4000
NYA/5/27-44/MW/M3L/840	1535	27 / 33 / 38 / 43	3675 / 4401 / 5134 / 5710	135 / 133 / 137 / 134		Microwave	M3L	>80	4000
NYA/6/36-58/MW/840	1835	37 / 46 / 49 / 58	5078 / 6211 / 6511 / 7648	134 / 134 / 133 / 132		Microwave		>80	4000
NYA/6/36-58/MW/M3L/840	1835	37 / 46 / 49 / 58	5078 / 6211 / 6511 / 7648	134 / 134 / 133 / 132		Microwave	M3L	>80	4000

## Accessories

ORDER CODE	DESCRIPTION
NYA/WIRE/SUSP/KIT	YALE wire suspension kit - 1.5m



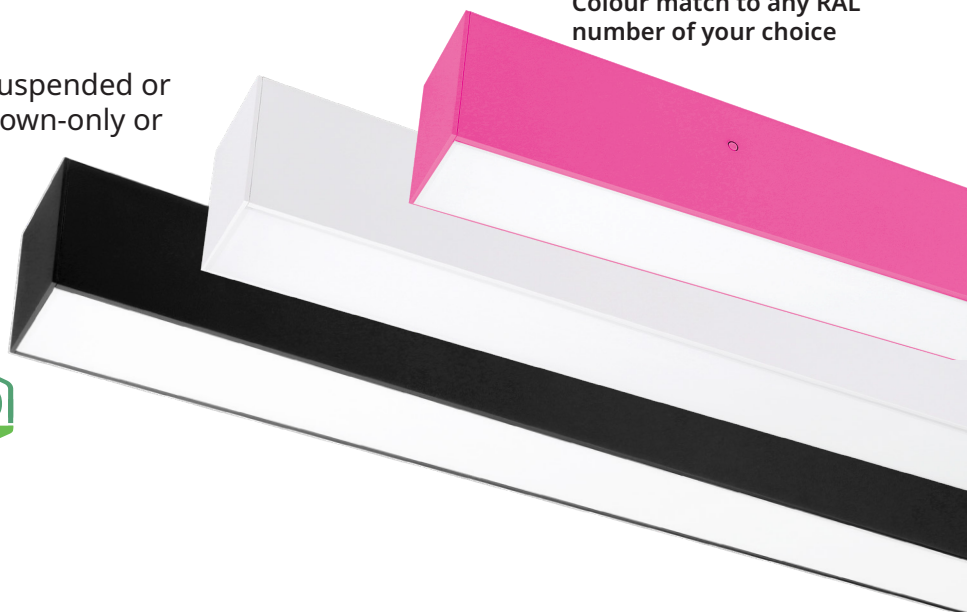




# DALLAS PRO

Power selectable fittings for surface, suspended or wall-mounted installation, offered in down-only or bi-directional light distribution.

## NEW OPTIONS 3000K and PIR



Colour match to any RAL number of your choice

### APPLICATIONS

- Corridors and communal areas in offices, schools and public buildings
- The suspended version is a great solution for spaces with high or sloping ceilings

### SPECIFICATION

- Aluminium body, painted white (RAL9016) or black (RAL9005). Customised colours available
- UV stable polycarbonate microprismatic controller
- Available in down-only (DO) and bi-directional (BD, 70% down, 30% up) variants
- Available in two lengths, 4' and 5', each with a multi-wattage driver on non-dimmable variants
- Can be installed singly or joined together (L, T, X or straight) to create multiple shapes
- Wire suspension and wall mounting kits are available to be ordered as separate items, as listed overleaf
- Tridonic driver

### OPTIONS

#### Colour Temperature (CCT)

- All variants available in 3000K or 4000K

#### Emergency – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

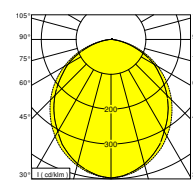
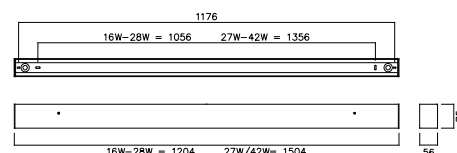
- M3L: Manual test
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- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

#### Dimming

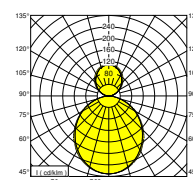
- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

#### Sensor

- A PIR sensor is available to be purchased as a separate item, for fitting on the end of the DALLAS PRO body, adjustable for:
- Range (3-4m at up to 6m mounting height)
  - Time delay (5 seconds – 10 minutes)
  - Lux switch-on level (Disable or 50/25/10 lux)



DOWN ONLY (DO)  
LIGHT DISTRIBUTION



BI-DIRECTIONAL (BD)  
LIGHT DISTRIBUTION

## KEY FEATURES

**LOW GLARE** – Achieves UGR<19 in most applications

**POWER SELECTABLE** – Choice of 4 wattages via dip-switch selection

**CHOICE OF BODY COLOUR** – Black & white as standard, or any customised colour

**EFFICIENT** – Achieves up to 151 luminaire lumens per circuit watt

## SMART WIRELESS CONTROLS



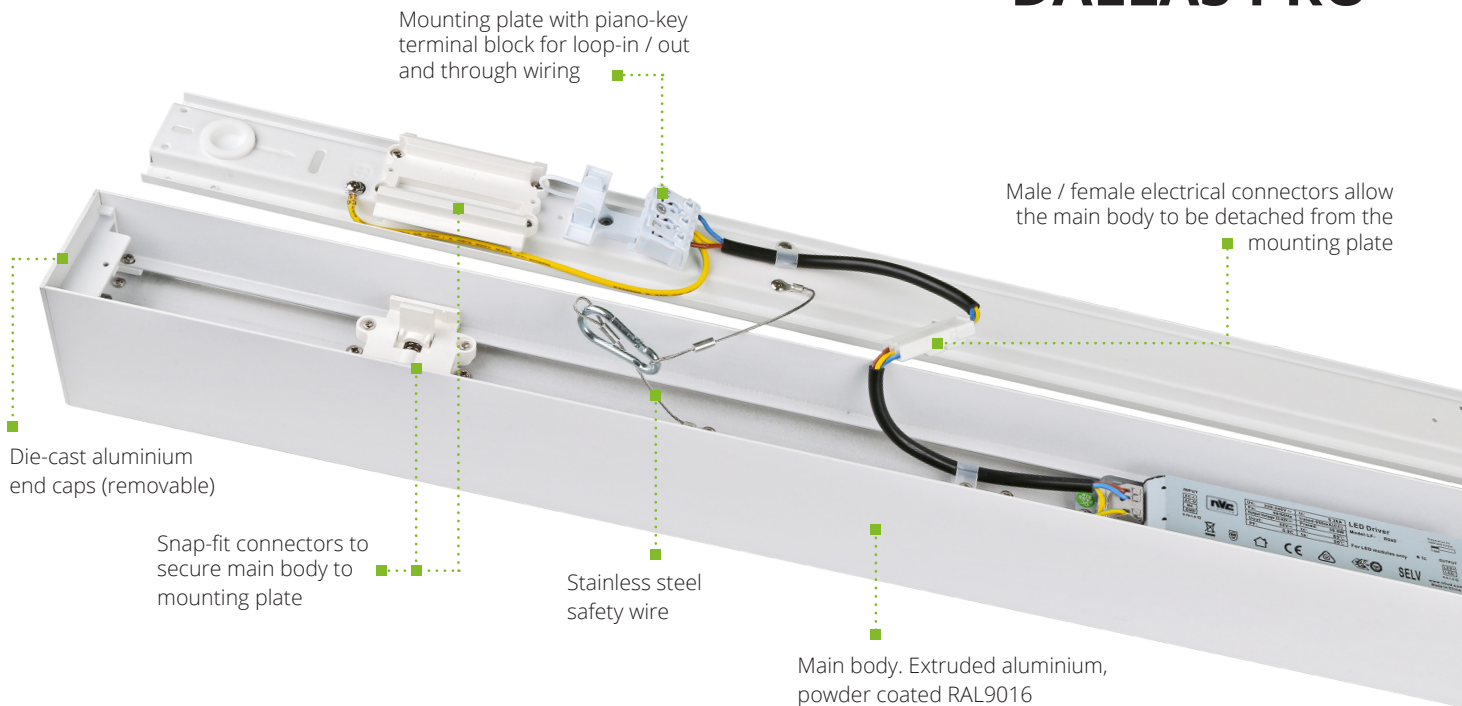
CASAMBI

DALLAS PRO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

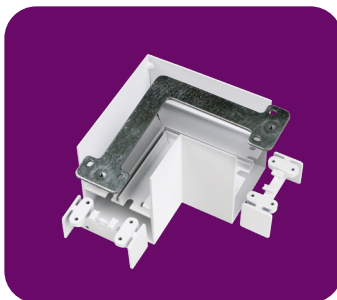
Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# DALLAS PRO



Fittings can be installed individually or as continuous runs in straight-line, L, T or X configurations. The suspended versions can deliver 100% downlight, or a mix of 70% downlight and 30% uplight.

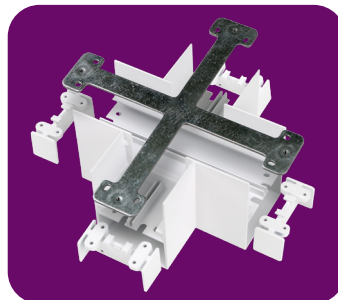
## DALLAS PRO ACCESSORIES



"L" COUPLING KIT



"T" COUPLING KIT



"X" COUPLING KIT



STRAIGHT COUPLING KIT



WALL MOUNTING BRACKETS



BLANK IN-FILL SPACERS  
AVAILABLE IN 4' AND 5' LENGTHS



WIRE SUSPENSION KIT - 1.5M  
COMES AS STANDARD WITH  
BI-DIRECTIONAL VERSIONS. 3M  
SUSPENSION KIT ALSO AVAILABLE



**NEW**

A PIR THAT FITS TO THE END  
OF THE DALLAS BODY IS AVAILABLE  
TO BE PURCHASED SEPARATELY,  
AS LISTED OVERLEAF.

# DALLAS PRO



For colour variants contact  
[sales@nvcuk.com](mailto:sales@nvcuk.com) with  
your RAL number

## Down-only with manual test emergency (M3L)

ORDER CODE	DIMENSIONS LENGTH (mm)	BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	OPTICAL DIRECTION	EMERGENCY	CRI	CCT (K)
<b>WHITE</b>									
NDL/4/16-28/WH/DO/830	1204	White	16 / 20 / 23 / 27	2262 / 2786 / 3327 / 3799	143 / 143 / 143 / 141	Down Only		>80	3000
NDL/4/16-28/WH/DO/M3L/830	1204	White	16 / 20 / 23 / 27	2262 / 2786 / 3327 / 3799	143 / 143 / 143 / 141	Down Only	M3 Lithium	>80	3000
NDL/5/27-42/WH/DO/830	1504	White	26 / 32 / 34 / 40	3623 / 4436 / 4656 / 5403	139 / 138 / 137 / 135	Down Only		>80	3000
NDL/5/27-42/WH/DO/M3L/830	1504	White	26 / 32 / 34 / 40	3623 / 4436 / 4656 / 5403	139 / 138 / 137 / 135	Down Only	M3 Lithium	>80	3000
NDL/4/16-28/WH/DO/840	1204	White	16 / 20 / 23 / 27	2381 / 2933 / 3502 / 3999	151 / 150 / 150 / 148	Down Only		>80	4000
NDL/4/16-28/WH/DO/M3L/840	1204	White	16 / 20 / 23 / 27	2381 / 2933 / 3502 / 3999	151 / 150 / 150 / 148	Down Only	M3 Lithium	>80	4000
NDL/5/27-42/WH/DO/840	1504	White	26 / 32 / 34 / 40	3814 / 4669 / 4906 / 5687	146 / 145 / 144 / 142	Down Only		>80	4000
NDL/5/27-42/WH/DO/M3L/840	1504	White	26 / 32 / 34 / 40	3814 / 4669 / 4906 / 5687	146 / 145 / 144 / 142	Down Only	M3 Lithium	>80	4000
<b>BLACK</b>									
NDL/4/16-28/BK/DO/830	1204	Black	16 / 20 / 23 / 27	2262 / 2786 / 3327 / 3799	143 / 143 / 143 / 141	Down Only		>80	3000
NDL/4/16-28/BK/DO/M3L/830	1204	Black	16 / 20 / 23 / 27	2262 / 2786 / 3327 / 3799	143 / 143 / 143 / 141	Down Only	M3 Lithium	>80	3000
NDL/5/27-42/BK/DO/830	1504	Black	26 / 32 / 34 / 40	3623 / 4436 / 4656 / 5403	139 / 138 / 137 / 135	Down Only		>80	3000
NDL/5/27-42/BK/DO/M3L/830	1504	Black	26 / 32 / 34 / 40	3623 / 4436 / 4656 / 5403	139 / 138 / 137 / 135	Down Only	M3 Lithium	>80	3000
NDL/4/16-28/BK/DO/840	1204	Black	16 / 20 / 23 / 27	2381 / 2933 / 3502 / 3999	151 / 150 / 150 / 148	Down Only		>80	4000
NDL/4/16-28/BK/DO/M3L/840	1204	Black	16 / 20 / 23 / 27	2381 / 2933 / 3502 / 3999	151 / 150 / 150 / 148	Down Only	M3 Lithium	>80	4000
NDL/5/27-42/BK/DO/840	1504	Black	26 / 32 / 34 / 40	3814 / 4669 / 4906 / 5687	146 / 145 / 144 / 142	Down Only		>80	4000
NDL/5/27-42/BK/DO/M3L/840	1504	Black	26 / 32 / 34 / 40	3814 / 4669 / 4906 / 5687	146 / 145 / 144 / 142	Down Only	M3 Lithium	>80	4000

## Bi-directional with manual test emergency (M3L)

ORDER CODE	DIMENSIONS LENGTH (mm)	BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	OPTICAL DIRECTION	EMERGENCY	CRI	CCT (K)
<b>WHITE</b>									
NDL/4/26-40/WH/BD/830	1204	White	26 / 32 / 34 / 40	3539 / 4284 / 4525 / 5224	137 / 134 / 134 / 132	Up & Down		>80	3000
NDL/4/26-40/WH/BD/M3L/830	1204	White	26 / 32 / 34 / 40	3539 / 4284 / 4525 / 5224	137 / 134 / 134 / 132	Up & Down	M3 Lithium	>80	3000
NDL/5/43-55/WH/BD/830	1504	White	43 / 47 / 51 / 55	5661 / 6440 / 6559 / 7153	133 / 138 / 131 / 130	Up & Down		>80	3000
NDL/5/43-55/WH/BD/M3L/830	1504	White	43 / 47 / 51 / 55	5661 / 6440 / 6559 / 7153	133 / 138 / 131 / 130	Up & Down	M3 Lithium	>80	3000
NDL/4/26-40/WH/BD/840	1204	White	26 / 32 / 34 / 40	3725 / 4509 / 4763 / 5499	144 / 141 / 141 / 139	Up & Down		>80	4000
NDL/4/26-40/WH/BD/M3L/840	1204	White	26 / 32 / 34 / 40	3725 / 4509 / 4763 / 5499	144 / 141 / 141 / 139	Up & Down	M3 Lithium	>80	4000
NDL/5/43-55/WH/BD/840	1504	White	43 / 47 / 51 / 55	5959 / 6779 / 7009 / 7529	140 / 145 / 138 / 137	Up & Down		>80	4000
NDL/5/43-55/WH/BD/M3L/840	1504	White	43 / 47 / 51 / 55	5959 / 6779 / 7009 / 7529	140 / 145 / 138 / 137	Up & Down	M3 Lithium	>80	4000
<b>BLACK</b>									
NDL/4/26-40/BK/BD/830	1204	Black	26 / 32 / 34 / 40	3539 / 4284 / 4525 / 5224	137 / 134 / 134 / 132	Up & Down		>80	3000
NDL/4/26-40/BK/BD/M3L/830	1204	Black	26 / 32 / 34 / 40	3539 / 4284 / 4525 / 5224	137 / 134 / 134 / 132	Up & Down	M3 Lithium	>80	3000
NDL/5/43-55/BK/BD/830	1504	Black	43 / 47 / 51 / 55	5661 / 6440 / 6559 / 7153	133 / 138 / 131 / 130	Up & Down		>80	3000
NDL/5/43-55/BK/BD/M3L/830	1504	Black	43 / 47 / 51 / 55	5661 / 6440 / 6559 / 7153	133 / 138 / 131 / 130	Up & Down	M3 Lithium	>80	3000
NDL/4/26-40/BK/BD/840	1204	Black	26 / 32 / 34 / 40	3725 / 4509 / 4763 / 5499	144 / 141 / 141 / 139	Up & Down		>80	4000
NDL/4/26-40/BK/BD/M3L/840	1204	Black	26 / 32 / 34 / 40	3725 / 4509 / 4763 / 5499	144 / 141 / 141 / 139	Up & Down	M3 Lithium	>80	4000
NDL/5/43-55/BK/BD/840	1504	Black	43 / 47 / 51 / 55	5959 / 6779 / 7009 / 7529	140 / 145 / 138 / 137	Up & Down		>80	4000
NDL/5/43-55/BK/BD/M3L/840	1504	Black	43 / 47 / 51 / 55	5959 / 6779 / 7009 / 7529	140 / 145 / 138 / 137	Up & Down	M3 Lithium	>80	4000

## Sensors

ORDER CODE	DESCRIPTION
NDL/PIR/WH	Dallas Pro PIR Sensor On/Off White
NDL/PIR/BK	Dallas Pro PIR Sensor On/Off Black

## Accessories

ORDER CODE	DESCRIPTION
NDL/4/WH/BLANK/SPACER	Dallas Pro WH 4Ft Blank Spacer c/w Straight Coupling Kits
NDL/5/WH/BLANK/SPACER	Dallas Pro WH 5Ft Blank Spacer c/w Straight Coupling Kits
NDL/4/BK/BLANK/SPACER	Dallas Pro BK 4Ft Blank Spacer c/w Straight Coupling Kits
NDL/5/BK/BLANK/SPACER	Dallas Pro BK 5Ft Blank Spacer c/w Straight Coupling Kits
NDL/WALL/BRKTS	Dallas Pro Wall Mounting Brackets

## Accessories

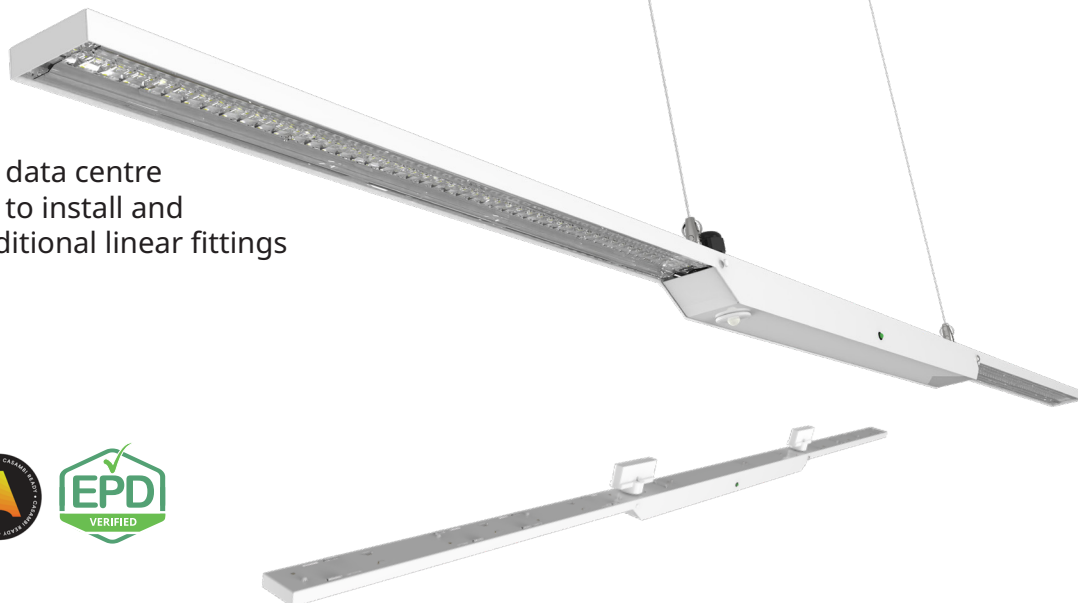
ORDER CODE	DESCRIPTION
NDL/STRAIGHT/WH	Dallas Pro Straight Joiner White
NDL/STRAIGHT/BK	Dallas Pro Straight Joiner Black
NDL/L/WH	Dallas Pro L Coupling Kit White
NDL/L/BK	Dallas Pro L Coupling Kit Black
NDL/T/WH	Dallas Pro T Coupling Kit White
NDL/T/BK	Dallas Pro T Coupling Kit Black
NDL/X/WH	Dallas Pro X Coupling Kit White
NDL/X/BK	Dallas Pro X Coupling Kit Black
NDL/WSK	Dallas Pro 1.5M Wire Suspension Kit
NDL/3M/WSK	Dallas Pro 3M Wire Suspension Kit





# BROADWAY

A linear lighting system for data centre and retail projects. Quicker to install and easier to maintain than traditional linear fittings



## APPLICATIONS

Designed for linear applications, such as:

- Server racks in a data hall
- Aisles in a retail store

## SPECIFICATION

1850mm linear lighting consisting of two 600mm LED modules and a central gear housing.

- Central gear housing contains the driver and, optionally, sensors, emergency modules, batteries and controls.
- Metal body available in white (RAL9016) or black (RAL9005)
- For surface mounting. For suspended installation, wire suspension kits are available to be ordered as separate items, as listed overleaf. Track mounting is also available - please contact Technical for further details.

## ACCESSORIES

- Wire suspension kits available as listed overleaf

## OPTIONS

### Optics/Lenses

- Wide aisles (OP1)
- Narrow aisles (OP2)

**Output** - Wide range of different outputs: 10W, 15W, 20W, 25W, 30W, 35W, 40W, 45W, 50W

**Emergency** – all maintained 3 hours with lithium (LiFePO4) batteries

- M3L: Manual test
- STM3L: Self-test
- DAM3L: DALI addressable
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

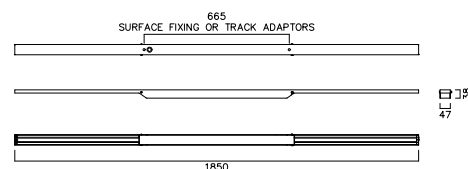
### Dimming

- DD: Digital Dimming – DALI and Switch Dim
- CF: Corridor Function – Dim to 10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

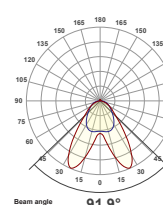
### Sensor

- PIR – Passive Infrared
- PIRD – Passive Infrared with Dimming

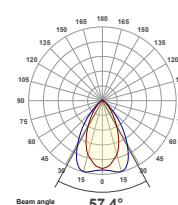
Mounting points for surface, suspended or track installation



OP1



OP2



Available with a choice of 2 lenses, OP1 and OP2

## SMART WIRELESS CONTROLS



CASAMBI

BROADWAY can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



# BROADWAY

MADE FOR DATA CENTRES,  
MADE FOR A MORE SUSTAINABLE FUTURE



## Precise Illumination

The choice of lenses facilitates compliance with TIA942, delivering the recommended lux levels on the vertical faces of server racks.



## Efficient

Producing 165 l.lm/c.W, BROADWAY helps data centres to achieve their power usage effectiveness (PUE) targets.



## Temperature

The design of BROADWAY, with the driver in a separate compartment from the LEDs, helps keep internal temperatures down. That's how BROADWAY is warranted to 45°C ambient and yet still retains its 100,000 hours rated life.



## Easy Maintenance

The central gear housing is hinged opened from below, so maintenance of the driver and any emergency modules, batteries and sensors is easy. No access through the rear of the fitting is required.



## Locally Assembled

Assembled in UK using parts sourced in Europe.

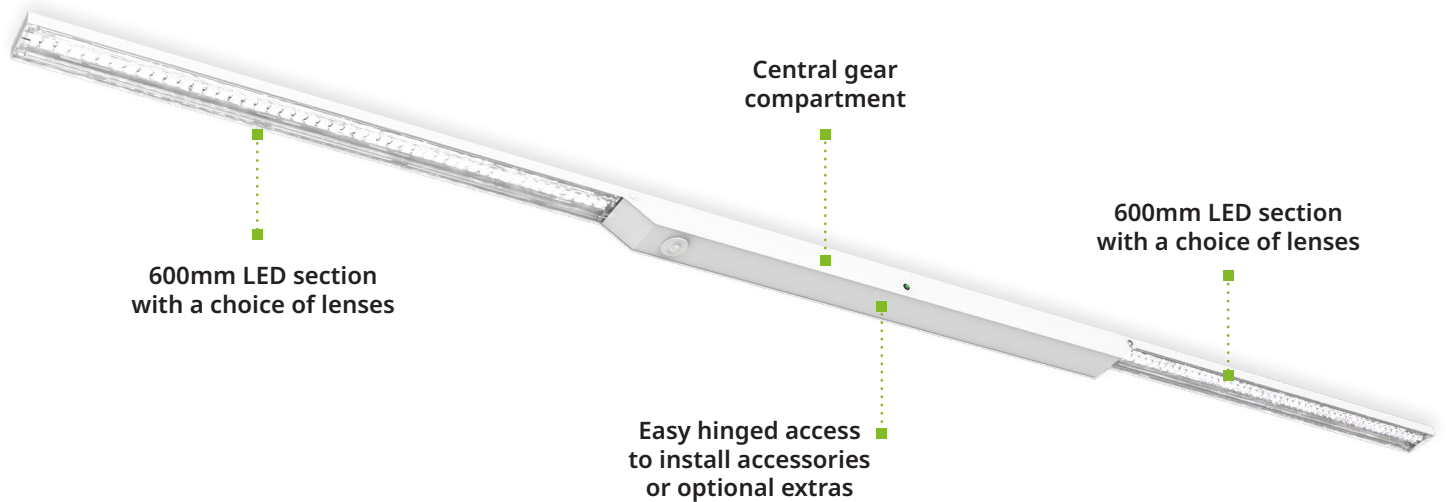


## Sustainable

BROADWAY is designed on TM66 principles, so that components can be re-purposed when the fitting as a whole reaches the end of its life.



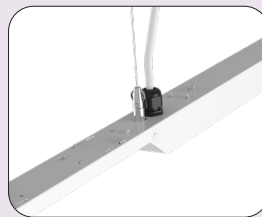
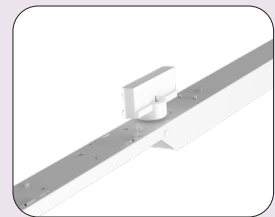
# BROADWAY



## Multiple mounting options



Surface mounted

Wire suspended  
wire suspension kits listed opposite

Track mounting option

## MADE FOR A CIRCULAR ECONOMY

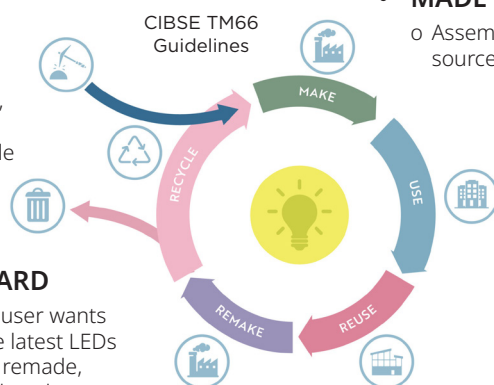
TM66 is the CIBSE guide to “Creating a Circular Economy in the Lighting Industry”. Compliance requires us to keep products at their highest value for as long as possible – not just recycle them as their performance declines with age.

### • RECYCLABLE

When end of life is reached, BROADWAY is simple and cost-effective to disassemble

### • REMAKE – DON'T DISCARD

If the building changes or the user wants to upgrade in the future to the latest LEDs and driver, BROADWAY can be remade, rather than discarded and replaced



### • MADE IN THE UK

- o Assembled locally from components sourced in Europe

### • USE, KEEP USING

- o Designed for long-term use at high ambient temperatures
- o All replaceable items, such as the driver, sensors and emergency batteries, are easily accessible and secured on simple clips or screws, so replacement is easy

# BROADWAY

## OP1, 90° light distribution - White body

ORDER CODE	BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICAL DIRECTION	CRI	CCT (K)
NBW/10/WH/OP1/840	White	11	1645	151	90°	>85	4000
NBW/15/WH/OP1/840	White	16	2419	156	90°	>85	4000
NBW/20/WH/OP1/840	White	20	3182	160	90°	>85	4000
NBW/25/WH/OP1/840	White	25	3933	160	90°	>85	4000
NBW/30/WH/OP1/840	White	30	4637	158	90°	>85	4000
NBW/35/WH/OP1/840	White	34	5377	157	90°	>85	4000
NBW/40/WH/OP1/840	White	39	6038	155	90°	>85	4000
NBW/45/WH/OP1/840	White	45	6703	148	90°	>85	4000
NBW/50/WH/OP1/840	White	50	7375	147	90°	>85	4000

## OP1, 90° light distribution - Black body

ORDER CODE	BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICAL DIRECTION	CRI	CCT (K)
NBW/10/BK/OP1/840	Black	11	1645	151	90°	>85	4000
NBW/15/BK/OP1/840	Black	16	2419	156	90°	>85	4000
NBW/20/BK/OP1/840	Black	20	3182	160	90°	>85	4000
NBW/25/BK/OP1/840	Black	25	3933	160	90°	>85	4000
NBW/30/BK/OP1/840	Black	30	4637	158	90°	>85	4000
NBW/35/BK/OP1/840	Black	34	5377	157	90°	>85	4000
NBW/40/BK/OP1/840	Black	39	6038	155	90°	>85	4000
NBW/45/BK/OP1/840	Black	45	6703	148	90°	>85	4000
NBW/50/BK/OP1/840	Black	50	7375	147	90°	>85	4000

## OP2, 60° light distribution - White body

ORDER CODE	BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICAL DIRECTION	CRI	CCT (K)
NBW/10/WH/OP2/840	White	11	1652	151	60°	>85	4000
NBW/15/WH/OP2/840	White	16	2461	158	60°	>85	4000
NBW/20/WH/OP2/840	White	20	3304	165	60°	>85	4000
NBW/25/WH/OP2/840	White	25	4033	164	60°	>85	4000
NBW/30/WH/OP2/840	White	30	4803	164	60°	>85	4000
NBW/35/WH/OP2/840	White	34	5562	163	60°	>85	4000
NBW/40/WH/OP2/840	White	39	6274	161	60°	>85	4000
NBW/45/WH/OP2/840	White	45	7047	156	60°	>85	4000
NBW/50/WH/OP2/840	White	50	7812	156	60°	>85	4000

## OP2, 60° light distribution - Black body

ORDER CODE	BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICAL DIRECTION	CRI	CCT (K)
NBW/10/BK/OP2/840	Black	11	1652	151	60°	>85	4000
NBW/15/BK/OP2/840	Black	16	2461	158	60°	>85	4000
NBW/20/BK/OP2/840	Black	20	3304	165	60°	>85	4000
NBW/25/BK/OP2/840	Black	25	4033	164	60°	>85	4000
NBW/30/BK/OP2/840	Black	30	4803	164	60°	>85	4000
NBW/35/BK/OP2/840	Black	34	5562	163	60°	>85	4000
NBW/40/BK/OP2/840	Black	39	6274	161	60°	>85	4000
NBW/45/BK/OP2/840	Black	45	7047	156	60°	>85	4000
NBW/50/BK/OP2/840	Black	50	7812	156	60°	>85	4000

## Accessories

ORDER CODE	DESCRIPTION
NBW/WIRE/SUSP/KIT	Wire Suspension Kit For Broadway - 1.5m
NBW/WIRE/SUSP/KIT/3M	Wire Suspension Kit For Broadway - 3m

# PHOENIX

A high quality batten with a choice of wattages and 4000K or 5000K CCT variants



## APPLICATIONS

- Garages, workshops and store rooms
- Corridors and communal areas

## SPECIFICATION

- Conventional batten width steel body
- White gloss powder coated finish (RAL9016)
- LEDs on metal core PCB with aluminium heat sink
- Opal polycarbonate diffuser
- BESA fixing points on rear
- Piano key loop-in / loop-out terminal block

## OPTIONS

### Colour Temperature (CCT)

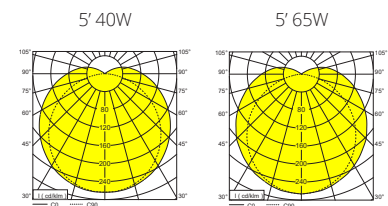
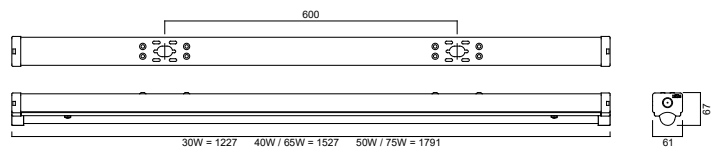
- All variants available in 4000K or 5000K

### Emergency – all maintained 3 hours with lithium (LiFePO4) batteries

- M3L: Manual test
- STM3L: Self-test
- DAM3L: DALI addressable test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

### Dimming

- DD: Digital Dimming – DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



## KEY FEATURES

**TRADITIONAL** – Design makes it a great retrofit option

**VERSATILE** – Wide range of accessories

**EFFICIENT** – Achieves up to 155 luminaire lumens per circuit watt

## SMART WIRELESS CONTROLS



PHOENIX can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# PHOENIX

Standard, including manual test emergency (M3L)

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	DIMMING	EMERGENCY	CRI	CCT (K)
<b>4000K</b>								
NPH30/LED/840	1227	28	4308	152			>80	4000
NPH30/LED/M3L/840	1227	28	4308	152		M3L	>80	4000
NPH40/LED/840	1527	36	5470	152			>80	4000
NPH40/LED/M3L/840	1527	36	5470	152		M3L	>80	4000
NPH50/LED/840	1791	48	7008	145			>80	4000
NPH50/LED/M3L/840	1791	48	7008	145		M3L	>80	4000
NPH65/LED/840	1527	62	9630	154			>80	4000
NPH65/LED/M3L/840	1527	62	9630	154		M3L	>80	4000
NPH75/LED/840	1791	70	10128	145			>80	4000
NPH75/LED/M3L/840	1791	70	10128	145		M3L	>80	4000
<b>5000K</b>								
NPH30/LED/850	1227	29	4382	149			>80	5000
NPH30/LED/M3L/850	1227	29	4382	149		M3L	>80	5000
NPH40/LED/850	1527	37	5633	151			>80	5000
NPH40/LED/M3L/850	1527	37	5633	151		M3L	>80	5000
NPH50/LED/850	1791	48	7186	150			>80	5000
NPH50/LED/M3L/850	1791	48	7186	150		M3L	>80	5000
NPH65/LED/850	1527	63	9710	154			>80	5000
NPH65/LED/M3L/850	1527	63	9710	154		M3L	>80	5000
NPH75/LED/850	1791	68	10536	155			>80	5000
NPH75/LED/M3L/850	1791	68	10536	155		M3L	>80	5000

Digital Dimming (DD) including manual test emergency (M3L)

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	DIMMING	EMERGENCY	CRI	CCT (K)
<b>4000K</b>								
NPH30/LED/DD/840	1227	28	4308	152	Digital Dimming		>80	4000
NPH30/LED/DD/M3L/840	1227	28	4308	152	Digital Dimming	M3L	>80	4000
NPH40/LED/DD/840	1527	36	5470	152	Digital Dimming		>80	4000
NPH40/LED/DD/M3L/840	1527	36	5470	152	Digital Dimming	M3L	>80	4000
NPH50/LED/DD/840	1791	48	7008	145	Digital Dimming		>80	4000
NPH50/LED/DD/M3L/840	1791	48	7008	145	Digital Dimming	M3L	>80	4000
NPH65/LED/DD/840	1527	62	9630	154	Digital Dimming		>80	4000
NPH65/LED/DD/M3L/840	1527	62	9630	154	Digital Dimming	M3L	>80	4000
NPH75/LED/DD/840	1791	70	10128	145	Digital Dimming		>80	4000
NPH75/LED/DD/M3L/840	1791	70	10128	145	Digital Dimming	M3L	>80	4000
<b>5000K</b>								
NPH30/LED/DD/850	1227	29	4382	149	Digital Dimming		>80	5000
NPH30/LED/DD/M3L/850	1227	29	4382	149	Digital Dimming	M3L	>80	5000
NPH40/LED/DD/850	1527	37	5633	151	Digital Dimming		>80	5000
NPH40/LED/DD/M3L/850	1527	37	5633	151	Digital Dimming	M3L	>80	5000
NPH50/LED/DD/850	1791	48	7186	150	Digital Dimming		>80	5000
NPH65/LED/DD/850	1527	63	9710	154	Digital Dimming		>80	5000
NPH65/LED/DD/M3L/850	1527	63	9710	154	Digital Dimming	M3L	>80	5000
NPH75/LED/DD/850	1791	68	10536	155	Digital Dimming		>80	5000

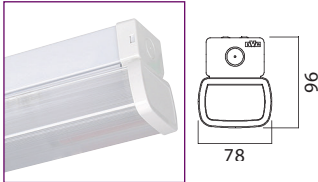
# PHOENIX

## ACCESSORIES

### CONTROLLER

Made from polycarbonate, the controller is shatter proof and virtually indestructible. The smooth exterior gives an easily cleaned surface while the ribbed interior gives an attractive appearance and good glare control. Supplied complete with the necessary support clips.

ORDER CODE	DESCRIPTION
NPH/CNTR/LED/30	Phoenix Controller LED 30W 4Ft
NPH/CNTR/LED/40	Phoenix Controller LED 40/65W 5Ft
NPH/CNTR/LED/50	Phoenix Controller LED 50/75W 6Ft
NPH/CNTR/CLIP/PK4	Phoenix Controller LED Support Clip Pack Of 4

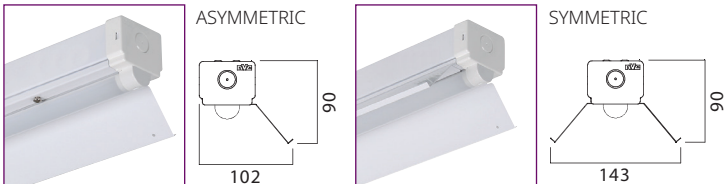


### STEEL REFLECTOR

Made from steel with white gloss powder coated finish. Order as required to create a symmetric or an asymmetric distribution:

- When fitted as a pair, these will give a symmetric distribution
- When fitted singly, these will give an asymmetric light distribution

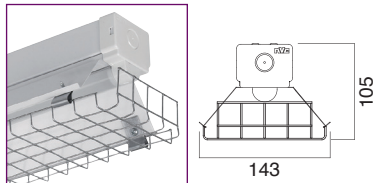
ORDER CODE	DESCRIPTION
NPH/REFL/LED/30/ST	Phoenix Reflector Steel LED 30W 4Ft 1-Side
NPH/REFL/LED/40/ST	Phoenix Reflector Steel LED 40/65W 5Ft 1-Side
NPH/REFL/LED/50/ST	Phoenix Reflector Steel LED 50/75W 6Ft 1-Side



### WIRE GUARD

Made from zinc coated steel mesh. Each wire guard attaches to a pair of steel reflectors with the fixing kit supplied.

ORDER CODE	DESCRIPTION
NPH/WG/LED/40	Phoenix Wire Guard LED 40/65W 5Ft
NPH/WG/LED/50	Phoenix Wire Guard LED 50/75W 6Ft



## BATTEN-MOUNT SENSORS

These sensors all have a 20mm threaded entry and are suitable (subject to their IP rating) for fitting to battens and non-corrosive fittings. They are both to be ordered as separate items to be fitted to the luminaire during installation.

See page 167 for more details



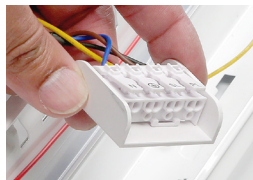








**Efficient**  
Up to 168 l.m/c.W



**Movable terminal block**  
Snap-fit locations at either end and at  
centre of base.  
You put it where it suits you best

**NEW**

# TEXAS PRO

Our new batten, with push-button hinge opening and a movable terminal block is easier to install than ever.

## QUICK TO INSTALL IN EASY STEPS

<b>STEP 1</b>	<b>PRESS BUTTONS EACH END</b>	▶	<b>LIGHT ENGINE HINGES DOWN</b>	▶	<b>NO SCREWS, STRAPS, WIRES OR CLIPS</b>	▶	<b>LIGHT ENGINE STAYS ATTACHED TO BASE</b>
<b>STEP 2</b>	<b>SCREW FIX TO CEILING</b>	▶	<b>MULTIPLE BESA &amp; SCREW FIXING POINTS AVAILABLE</b>	▶	<b>SCREWS AND PLUGS SUPPLIED</b>	▶	-
<b>STEP 3</b>	<b>INTRODUCE MAINS SUPPLY</b>	▶	<b>END OR REAR ENTRY? YOU DECIDE</b>	▶	<b>REAR ENTRIES HAVE GROMMETS READY FITTED</b>	▶	<b>NO KNOCKING OUT, NO GROMMETS TO FIT</b>
<b>STEP 4</b>	<b>SNAP-FIT TERMINAL BLOCK INTO PLACE</b>	▶	<b>CHOICE OF MULTIPLE LOCATIONS</b>	▶	<b>END OR CENTRAL POSITION? YOU CHOOSE</b>	▶	<b>TERMINAL BLOCK CLOSE TO THE CABLE ENTRY MAKES WIRING EASIER</b>
<b>STEP 5</b>	<b>CONNECT SUPPLY</b>	▶	<b>PIANO-KEY TERMINALS</b>	▶	<b>PUSH-FIT</b>	▶	<b>NO TOOL REQUIRED</b>
<b>STEP 6</b>	<b>CLOSE FITTING</b>	▶	<b>LIGHT ENGINE HINGES UP AND SNAPS SHUT</b>	▶	<b>NO SCREWS, NO CLIPS</b>	▶	<b>NO TOOL REQUIRED</b>

### Full range of sizes & wattages

4', 5' & 6'  
11W – 58W



### Tridonic driver

Tridonic driver fitted as standard  
on all non-dimming variants.  
100,000 hours rated.

### CCT selector switch

CCT selector switch  
Choice of 3000K, 4000K and 6000K



### Push-button hinge opening

Push buttons each end  
make opening easy.  
Light engine hinges down.



### One piece light engine

Polycarbonate diffuser  
LEDs on aluminium tray

### Emergency & sensor ready

Plug/socket connectors make fitting an  
emergency conversion pack and/or a  
microwave sensor easy.



TEXAS PRO can be ordered with a microwave sensor and / or an emergency pack ready fitted.

If you prefer, you can keep some sensors and emergency packs in your stock and fit them yourself as needed. It's easy – all the connections are plug-and-play. No tools required.

See overleaf for sensor and emergency pack ordering details.



# TEXAS PRO **NEW**

A high-performance batten which is both power and CCT selectable, with a full range of dimming and emergency options.



## APPLICATIONS

- Suitable for a wide range of commercial and residential applications
- Back and front-of-house uses include storerooms, corridors, offices and assembly areas in light industrial and commercial premises

## SPECIFICATION

- Steel base, painted white (RAL9016)
- 4-way power selectable Tridonic driver mounted in base
- 20mm cable entry points in end caps
- BESA fixing points in base
- Movable terminal block in base
- Light engine, comprised of LED tray and polycarbonate diffuser in one piece
- Light engine hinged on base with push-button spring clips
- 3-way CCT selector switch on LED tray
- Tridonic driver

## OPTIONS

### Colour Temperature (CCT)

- All variants are CCT selectable, offering 3000K, 4000K and 6000K

### Power

- All non-dimming variants are 4-way power (wattage) selectable via a selector switch on the driver

### Emergency – all maintained 3 hours with (LiFePO4) lithium batteries

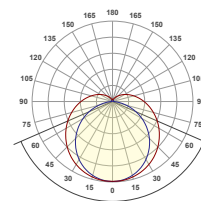
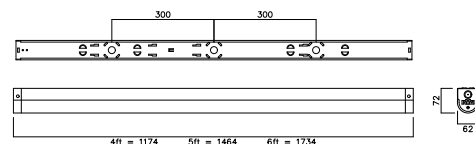
- M3L: Manual test
- STM3L: Self-test
- DAM3L: DALI addressable emergency test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test
- M3L and STM3L are also available by ordering separate linear emergency conversion packs as listed opposite

### Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

### Sensor

- MW - micro-wave sensor fitted internally



A micro-wave sensor is available to be supplied ready fitted (MW) or purchased as a separate item and installed on-site, as listed overleaf.

## KEY FEATURES

**EFFICIENT** – Up to 167 luminaire lumens per circuit watt

**ADAPTABLE** – 4-way power selectable and 3-way CCT selectable

**VERSATILE** – Full range of dimming and emergency versions available

**EASY TO INSTALL** – Movable terminal block makes wiring quick & easy

## SMART WIRELESS CONTROLS



**CASAMBI**

TEXAS PRO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# NEW TEXAS PRO

## Standard

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)*	EFFICACY (l.lm/c.W)	DIMMING	EMERGENCY	CRI	CCT (K)
NTE4/11-20/830-40-60	1174	11 / 14 / 17 / 20	1756 / 2180 / 2633 / 3047	156 / 159 / 159 / 159			>80	3000 / 4000 / 6000
NTE4/11-20/M3L/830-40-60	1174	11 / 14 / 17 / 20	1756 / 2180 / 2633 / 3047	156 / 159 / 159 / 159		M3L	>80	3000 / 4000 / 6000
NTE4/18-33/830-40-60	1174	18 / 23 / 28 / 33	2887 / 3625 / 4288 / 4991	160 / 161 / 160 / 158			>80	3000 / 4000 / 6000
NTE4/18-33/M3L/830-40-60	1174	18 / 23 / 28 / 33	2887 / 3625 / 4288 / 4991	160 / 161 / 160 / 158		M3L	>80	3000 / 4000 / 6000
NTE5/18-32/830-40-60	1464	18 / 23 / 27 / 32	2924 / 3747 / 4439 / 5187	161 / 167 / 166 / 165			>80	3000 / 4000 / 6000
NTE5/18-32/M3L/830-40-60	1464	18 / 23 / 27 / 32	2924 / 3747 / 4439 / 5187	161 / 167 / 166 / 165		M3L	>80	3000 / 4000 / 6000
NTE5/29-52/830-40-60	1464	29 / 37 / 45 / 52	4794 / 5923 / 7058 / 8132	168 / 167 / 164 / 162			>80	3000 / 4000 / 6000
NTE5/29-52/M3L/830-40-60	1464	29 / 37 / 45 / 52	4794 / 5923 / 7058 / 8132	168 / 167 / 164 / 162		M3L	>80	3000 / 4000 / 6000
NTE6/21-38/830-40-60	1734	21 / 27 / 32 / 38	3377 / 4270 / 5067 / 5925	164 / 165 / 164 / 162			>80	3000 / 4000 / 6000
NTE6/21-38/M3L/830-40-60	1734	21 / 27 / 32 / 38	3377 / 4270 / 5067 / 5925	164 / 165 / 164 / 162		M3L	>80	3000 / 4000 / 6000
NTE6/32-58/830-40-60	1734	32 / 40 / 50 / 58	5165 / 6388 / 7705 / 8827	164 / 163 / 160 / 157			>80	3000 / 4000 / 6000
NTE6/32-58/M3L/830-40-60	1734	32 / 40 / 50 / 58	5165 / 6388 / 7705 / 8827	164 / 163 / 160 / 157		M3L	>80	3000 / 4000 / 6000

\* RESULTS @ 4000K

## Digital Dimming (DD)

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)*	EFFICACY (l.lm/c.W)	DIMMING	EMERGENCY	CRI	CCT (K)
NTE4/11-20/DD/830-40-60	1174	11 / 14 / 17 / 20	1756 / 2180 / 2633 / 3047	156 / 159 / 159 / 159	Digital Dimming		>80	3000 / 4000 / 6000
NTE4/11-20/DD/M3L/830-40-60	1174	11 / 14 / 17 / 20	1756 / 2180 / 2633 / 3047	156 / 159 / 159 / 159	Digital Dimming	M3L	>80	3000 / 4000 / 6000
NTE4/18-33/DD/830-40-60	1174	18 / 23 / 28 / 33	2887 / 3625 / 4288 / 4991	160 / 161 / 160 / 158	Digital Dimming		>80	3000 / 4000 / 6000
NTE4/18-33/DD/M3L/830-40-60	1174	18 / 23 / 28 / 33	2887 / 3625 / 4288 / 4991	160 / 161 / 160 / 158	Digital Dimming	M3L	>80	3000 / 4000 / 6000
NTE5/18-32/DD/830-40-60	1464	18 / 23 / 27 / 32	2924 / 3747 / 4439 / 5187	161 / 167 / 166 / 165	Digital Dimming		>80	3000 / 4000 / 6000
NTE5/18-32/DD/M3L/830-40-60	1464	18 / 23 / 27 / 32	2924 / 3747 / 4439 / 5187	161 / 167 / 166 / 165	Digital Dimming	M3L	>80	3000 / 4000 / 6000
NTE5/29-52/DD/830-40-60	1464	29 / 37 / 45 / 52	4794 / 5923 / 7058 / 8132	168 / 167 / 164 / 162	Digital Dimming		>80	3000 / 4000 / 6000
NTE5/29-52/DD/M3L/830-40-60	1464	29 / 37 / 45 / 52	4794 / 5923 / 7058 / 8132	168 / 167 / 164 / 162	Digital Dimming	M3L	>80	3000 / 4000 / 6000
NTE6/21-38/DD/830-40-60	1734	21 / 27 / 32 / 38	3377 / 4270 / 5067 / 5925	164 / 165 / 164 / 162	Digital Dimming		>80	3000 / 4000 / 6000
NTE6/21-38/DD/M3L/830-40-60	1734	21 / 27 / 32 / 38	3377 / 4270 / 5067 / 5925	164 / 165 / 164 / 162	Digital Dimming	M3L	>80	3000 / 4000 / 6000
NTE6/32-58/DD/830-40-60	1734	32 / 40 / 50 / 58	5165 / 6388 / 7705 / 8827	164 / 163 / 160 / 157	Digital Dimming		>80	3000 / 4000 / 6000
NTE6/32-58/DD/M3L/830-40-60	1734	32 / 40 / 50 / 58	5165 / 6388 / 7705 / 8827	164 / 163 / 160 / 157	Digital Dimming	M3L	>80	3000 / 4000 / 6000

\* RESULTS @ 4000K

NOTE: DD includes DALI and Switch Dim

## Emergency Conversion Packs

ORDER CODE	MOUNTING	POWER (W)	EMERGENCY
N/LINEAR/M3L/CONV-PACK	INTERNAL	2	Manual-test
N/LINEAR/STM3L/CONV-PACK	INTERNAL	2	Self-test

## MW Sensor

ORDER CODE	DESCRIPTION
NTE/NRG/MW-SENSOR/PACK	Plug & Play MW Sensor Pack for Texas Pro & Ranger



# RANGER NEW

Batten available in standard and high-output for everyday applications



## APPLICATIONS

- Suitable for a wide range of commercial and residential applications
- Back-of-house uses include storerooms, corridors and assembly areas in light industrial and commercial premises

## SPECIFICATION

- Steel body with white gloss painted finish (RAL9016)
- BESA fixing points on rear of body
- Polycarbonate end caps with 20mm conduit entry points
- Opal polycarbonate diffuser
- LEDs on metal core PCB with aluminium heat sink
- Piano key loop-in/loop-out, moveable, terminal block

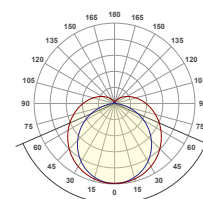
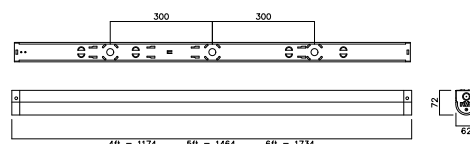
## OPTIONS

**Emergency** – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- For M3 and M3 self-test, order one of the linear emergency conversion packs listed below.

## Sensor

- A microwave sensor is available to be purchased separately for fitting on-site, as listed below.



A micro-wave sensor is available to be supplied ready fitted (MW) or purchased as a separate item and installed on-site, as listed overleaf.

## Standard

ORDER CODE	DIMENSIONS LENGTH (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.w)	EMERGENCY	CRI	CCT (K)
NRG4/18-34/830-40-60	1174	18 / 24 / 28 / 34	2716 / 3629 / 4186 / 4999	150 / 150 / 149 / 146		>80	3000 / 4000 / 6000
NRG4/18-34/M3L/830-40-60	1174	18 / 24 / 28 / 34	2716 / 3629 / 4186 / 4999	150 / 150 / 149 / 146	M3L	>80	3000 / 4000 / 6000
NRG5/29-52/830-40-60	1464	29 / 37 / 44 / 52	4318 / 5501 / 6449 / 7352	148 / 147 / 144 / 142		>80	3000 / 4000 / 6000
NRG5/29-52/M3L/830-40-60	1464	29 / 37 / 44 / 52	4318 / 5501 / 6449 / 7352	148 / 147 / 144 / 142	M3L	>80	3000 / 4000 / 6000
NRG6/31-62/830-40-60	1734	31 / 42 / 52 / 62	4888 / 6317 / 7678 / 8695	151 / 149 / 146 / 143		>80	3000 / 4000 / 6000
NRG6/32-61/M3L/830-40-60	1734	31 / 42 / 52 / 62	4888 / 6317 / 7678 / 8695	151 / 149 / 146 / 143	M3L	>80	3000 / 4000 / 6000

## Emergency Conversion Packs

ORDER CODE	MOUNTING	POWER (W)	EMERGENCY
N/LINEAR/M3L/CONV-PACK	INTERNAL	2	Manual-test
N/LINEAR/STM3L/CONV-PACK	INTERNAL	2	Self-test

## MW Sensor

ORDER CODE	DESCRIPTION
NTE/NRG/MW-SENSOR/PACK	Plug & Play MW Sensor Pack for Texas Pro & Ranger









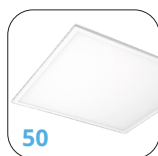
# PANELS



CAT-R



STERLING PRO



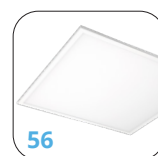
STERLING  
CLASSIC



LINCOLN



BISMARCK



FULTON



FLORIDA



# CAT-R

A new approach to commercial lighting, eliminating the waste of traditional CAT-A / B fit-out and strip out cycles



WINNER OF THE  
ECN SUSTAINABLE PRODUCT OF  
THE YEAR AWARD 2025



## APPLICATIONS

- Tenanted commercial offices where a CAT-A fit-out would otherwise be followed by a strip-out and a CAT-B installation

## SPECIFICATION

- Comprised of 3 interchangeable modules – body, LED cassette and driver
- For lay-in installation in 15-24mm exposed T ceilings
- Vossloh Schwabe driver

### Body:

Metal body, powder coated, Semi-gloss white (RAL9016) available in two sizes:

- 600mm x 600mm
- 1200mm x 300mm

Both sizes are available in 4 different styles: Basic, Square, Winged or Acoustic

### LED Cassette:

Available on all body sizes and styles, with a snap-fit mounting and plug and play connection. Choose between Opal or Microprismatic UGR <19, with 3000k, 4000k or 5000k options

### Drivers:

Prewired with push to fit, toolless terminals. Choose one of the following:

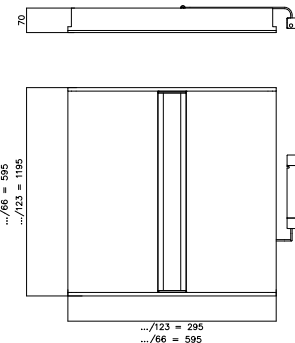
- FO - Fixed Output, wattage selectable
- DD - Digital Dimming (DALI & Switch Dim)
- CS - Casambi smart wireless control
- HS - HubSense smart wireless control

### OPTIONS

**Emergency** – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- For M3, M3 self-test or M3 DALI (DAM3), order one of the conversion packs listed overleaf

**Sensor** - Optional plug and play sensor fitted in the body. Contact the technical team for more information



## KEY FEATURES

**SUSTAINABILITY** – Designed to TM66 guidelines with replaceable parts

**UPGRADABLE** – Drivers & LED cassettes can be changed

**REUSE** – Parts can be reused on next project

**CARBON SAVING** – Up to 55% saving on a typical CAT-A / B fit-out cycle

## SMART WIRELESS CONTROLS



CASAMBI

CAT-R can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

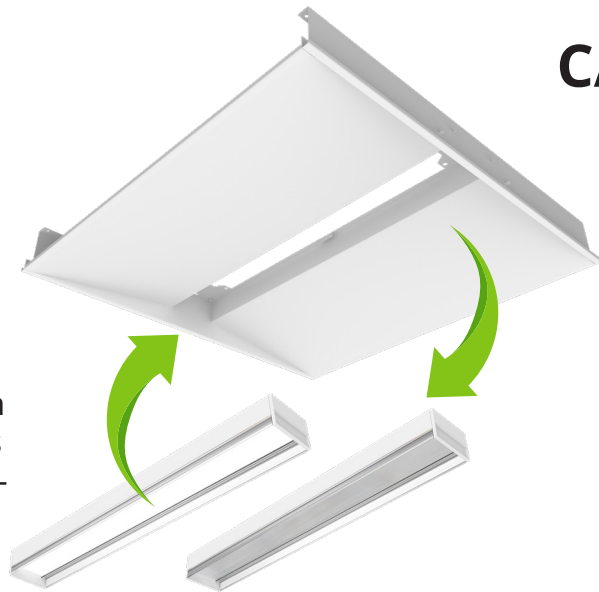
**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

## CAT-R

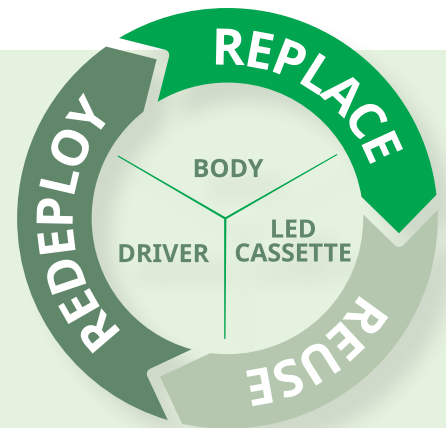
### Lighting the way to a sustainable future

Transforming the CAT-A/B fit-out cycle with a smart, magnetic snap-fit system that lets you easily swap interchangeable modules - fast, simple and sustainable.



## Replace. Reuse. Redeploy.

Designed to meet CAT-A/B fitout requirements, it features an adaptable plug-and-play system that allows the lighting to be changed quickly, cost-effectively and in a sustainable manner to meet the requirements of new tenants.



### Quick and Simple

Built on the NVC plug-and-play platform, CAT-R is quick and easy to install and just as quick and easy to modify later.

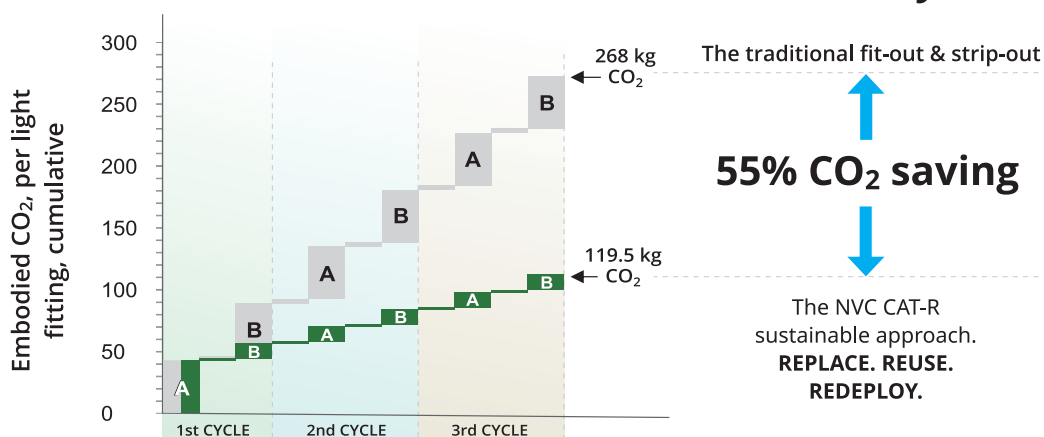
### Cost Effective

Built with the ability to replace only specific modules, CAT-R is a more cost-effective solution than a traditional CAT-A/B fit-out and strip-out cycle.

### Sustainable

Reduces CO<sub>2</sub> emissions by 55% over 3 cycles compared to the traditional fit-out cycle. One step closer to a waste free future.

### Cumulative CO<sub>2</sub> emissions over 3 CAT-A / B cycles





# CAT-R

Ordered as three items and assembled on site.  
Assembly is tool-free, snap-fit, plug and play.



## OPTIONAL STEP 4

## CHOOSE AN EMERGENCY PACK



CAT-R is ordered as three items (four items for emergency fittings) and assembled on site.

**Assembly is tool-free, snap-fit, plug & play.**

# CAT-R

## Body

ORDER CODE	DESCRIPTION	DIMENSIONS (mm)	
		WIDTH	LENGTH
<b>FOR 600 X 600 BODY</b>			
NCATR/BODY/66/BASIC	CAT-R Body 600x600 Basic	595	595
NCATR/BODY/66/SQUARE	CAT-R Body 600x600 Square	595	595
NCATR/BODY/66/WINGED	CAT-R Body 600x600 Winged	595	595
NCATR/BODY/66/ACOUSTIC	CAT-R Body 600x600 Acoustic	595	595
<b>FOR 1200X300 BODY</b>			
NCATR/BODY/123/BASIC	CAT-R Body 1200x300 Basic	295	1195
NCATR/BODY/123/SQUARE	CAT-R Body 1200x300 Square	295	1195
NCATR/BODY/123/WINGED	CAT-R Body 1200x300 Winged	295	1195
NCATR/BODY/123/ACOUSTIC	CAT-R Body 1200x300 Acoustic	295	1195

## LED Cassette (3000K & 4000K listed. 5000K also available.)

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	CRI	CCT (K)
<b>FOR 600 X 600 BODY</b>						
NCATR/CASS/6/O/830	26 / 32 / 38 / 43	3144 / 3755 / 4356 / 4800	125 / 121 / 118 / 116	Opal	>80	3000
NCATR/CASS/6/O/840	26 / 32 / 38 / 43	3144 / 3755 / 4356 / 4800	125 / 121 / 118 / 116	Opal	>80	4000
NCATR/CASS/6/UGR/830	26 / 31 / 38 / 43	3032 / 3365 / 1028 / 4364	114 / 110 / 108 / 104	UGR<19	>80	3000
NCATR/CASS/6/UGR/840	26 / 31 / 38 / 43	3032 / 3365 / 1028 / 4364	114 / 110 / 108 / 104	UGR<19	>80	4000
<b>FOR 1200 X 300 BODY</b>						
NCATR/CASS/12/O/830	25 / 30 / 36 / 41	3433 / 4115 / 4835 / 5479	145 / 142 / 140 / 136	Opal	>80	3000
NCATR/CASS/12/O/840	25 / 30 / 36 / 41	3433 / 4115 / 4835 / 5479	145 / 142 / 140 / 136	Opal	>80	4000
NCATR/CASS/12/UGR/830	25 / 30 / 36 / 41	3256 / 3698 / 4459 / 4805	129 / 128 / 127 / 123	UGR<19	>80	3000
NCATR/CASS/12/UGR/840	25 / 30 / 36 / 41	3256 / 3698 / 4459 / 4805	129 / 128 / 127 / 123	UGR<19	>80	4000

## Driver

ORDER CODE	DESCRIPTION
NCATR/DRV/FO	CAT-R Driver Fixed Output Wattage Selectable 25 - 41W
NCATR/DRV/DD	CAT-R Driver DALI Dim Wattage Selectable 25W - 41W
NCATR/DRV/HS	CAT-R Driver Hubsense Wattage Selectable 25W - 41W
NCATR/DRV/CS	CAT-R Driver Casambi Wattage Programmable 25-41W

## Optional - Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO4 For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO4 Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges

For Casambi or HubSense addressable test, call technical for details.



SEE PAGE 77

## Easy to reuse

- All modules are interchangeable – **no redundancy**
- All modules are reusable – **no waste**
- All electrical connections are screwless or plug & socket – **no tools or skilled labour required**
- All mechanical connections are snap-fit and/or magnetic – **no screws, bolts or adhesives**



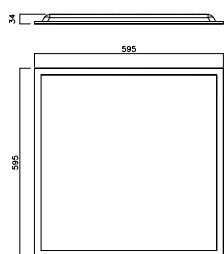
**NEW**

# STERLING PRO

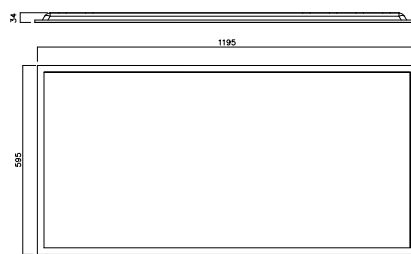
Our best panel yet – built for reliability, efficiency and versatility. It's the anywhere, anytime panel.

## THREE SIZES & MULTIPLE MOUNTING OPTIONS

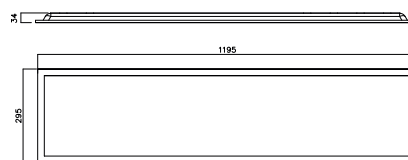
STERLING PRO is available in 3 sizes:



600 x 600



1200 x 600



1200 x 300

## NEW DRIVER DESIGN - Easier to install than ever

**EXTRA WIDE CABLE ENTRY**  
plenty of space for loop-in/  
out mains cables

**PLUG/SOCKET CONNECTOR**  
connect to the driver first,  
then plug in the panel

**2-POLE TERMINALS**  
for loop-in/loop-out

**SNAP-SHUT TERMINAL COVER**  
no screws

**PIANO KEY TERMINALS**  
no tools required





**Wide range of wattages**  
from 11W to 60W

**3 Sizes** – 600×600,  
1200×300, 1200×600

**TP(a) rated**

**UGR<19**

**Efficient**  
Up to 187 l.lm/c.W

## HIGH COLOUR RENDITION (CRI)

STERLING PRO is available with a choice of CRI>80 or CRI>90.

CRI>90 is a requirement for medical, clothing retail and some educational applications.



## LOW GLARE

Many projects (eg classrooms and offices) are required to have a UGR<19.

STERLING PRO with a micro prismatic controller will achieve this in almost any situation.



## HIGH EFFICIENCY

STERLING PRO'S efficiency, at up to 187 l.lm/c.W is best in class – but there's more to efficiency than that.

### Goldilocks lighting

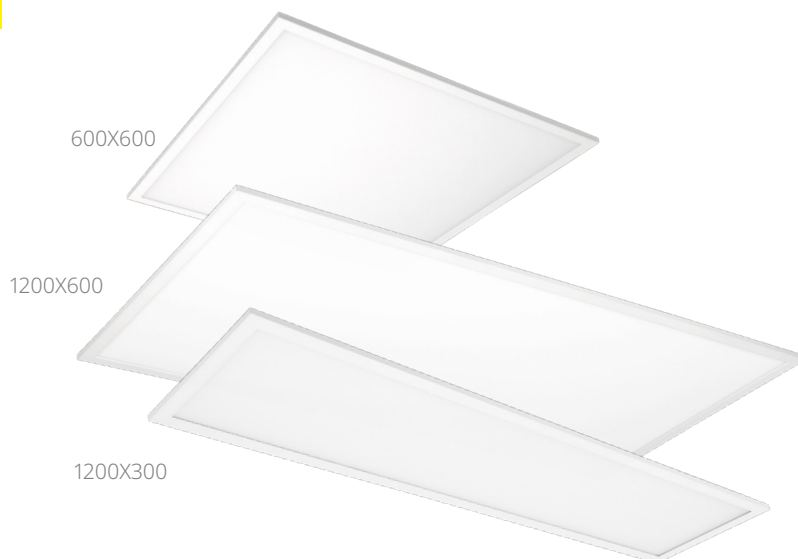
Not too much, not too little, just right. For each size of STERLING PRO there is a choice of 2 drivers, high efficiency and high output, and each one is power selectable. So, when we do a lighting design for you we can specify the exact wattage needed to deliver the Goldilocks result.





# STERLING PRO **NEW**

Our highest specification panel yet:  
power selectable, opal and UGR<19  
optics, CRI>80 or CRI>90, three CCTs  
and three different sizes



## APPLICATIONS

- Offices, classrooms and general commercial use
- Medical consulting rooms, art rooms and clothing retail

## SPECIFICATION

- Back-lit, with an aluminium frame, painted white (RAL9003)
- Steel body
- TP(a) rated opal diffuser or microprismatic controller
- For lay-in installation in 15-24mm exposed T ceilings
- For surface, suspended and recessed (pull-up) installation with the addition of accessories as listed overleaf.
- Loop-in / loop-out terminals

## OPTIONS

### Size & Wattage

STERLING PRO is available in 3 sizes with a choice of two drivers at each size. All drivers are wattage selectable with a choice of settings within each wattage range.

- 600 x 600, 11-21W, 17-28W
- 1200 x 300, 11-21W, 17-28W
- 1200 x 600, 11-21W, 17-40W

## Colour Temperature (CCT)

- Choice of 3000K, 4000K and 6000K

## Optics

- O: Opal diffuser
- UGR<19: Microprismatic controller, for projects requiring low glare

## Emergency – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

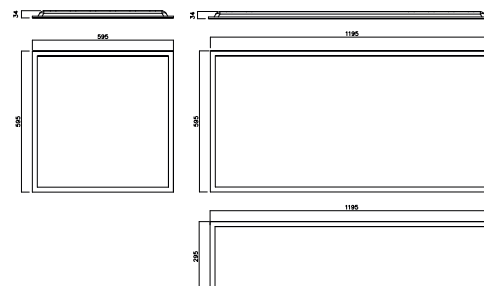
- For M3, M3 self-test and M3 with DALI addressable emergency testing, order one of the conversion packs listed overleaf
- CSDAM3L - Casambi addressable test
- HSDAM3L: HubSense addressable test

## Recessed, Surface & Suspended

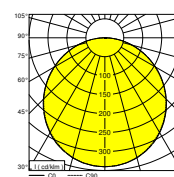
- Recessed (pull-up), surface and suspended installation kits available as listed overleaf

## Dimming

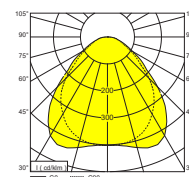
- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



OPAL DIFFUSER



UGR<19 MICROPRISMATIC CONTROLLER



## KEY FEATURES

**LOW GLARE** – Achieves UGR<19 in most applications

**CRI CHOICE** – CRI>80 and CRI>90 options available

**OUTPUT OPTIONS** – Wide range of lumen packages

**EFFICIENT** – Achieves up to 187 luminaire lumens per circuit watt

## SMART WIRELESS CONTROLS



STERLING PRO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# NEW STERLING PRO

## 600x600 Multi-wattage with UGR<19 microprismatic controller

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-21/UGR/66/830	595	595	11-21	1749 - 3480	Up to 185	UGR<19		>80	3000
NST11-21/UGR/66/840	595	595	11-21	1928 - 3813	Up to 185	UGR<19		>80	4000
NST11-21/UGR/66/860	595	595	11-21	1826 - 3677	Up to 185	UGR<19		>80	6000
NST17-28/UGR/66/830	595	595	17-28	2928 - 4626	Up to 185	UGR<19		>80	3000
NST17-28/UGR/66/840	595	595	17-28	3129 - 4949	Up to 181	UGR<19		>80	4000
NST17-28/UGR/66/860	595	595	17-28	3083 - 4891	Up to 181	UGR<19		>80	6000

## 600x600 Multi-wattage with UGR<19 microprismatic controller DD

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-28/UGR/66/DD/830	595	595	11-28	1749 - 4626	Up to 185	UGR<19	Digital Dimming	>80	3000
NST11-28/UGR/66/DD/840	595	595	11-28	1928 - 4949	Up to 185	UGR<19	Digital Dimming	>80	4000
NST11-28/UGR/66/DD/860	595	595	11-28	1826 - 4891	Up to 185	UGR<19	Digital Dimming	>80	6000

## 1200x300 Multi-wattage with UGR<19 microprismatic controller

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-21/UGR/123/830	295	1195	11-21	1740 - 3465	Up to 164	UGR<19		>80	3000
NST11-21/UGR/123/840	295	1195	11-21	1803 - 3591	Up to 170	UGR<19		>80	4000
NST11-21/UGR/123/860	295	1195	11-21	1780 - 3572	Up to 170	UGR<19		>80	6000
NST17-28/UGR/123/830	295	1195	17-28	2913 - 4608	Up to 164	UGR<19		>80	3000
NST17-28/UGR/123/840	295	1195	17-28	1803 - 4642	Up to 176	UGR<19		>80	4000
NST17-28/UGR/123/860	295	1195	17-28	3015 - 4801	Up to 170	UGR<19		>80	6000

## 1200x300 Multi-wattage with UGR<19 microprismatic controller DD

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-28/UGR/123/DD/830	295	1195	11-28	2913 - 4608	Up to 164	UGR<19	Digital Dimming	>80	3000
NST11-28/UGR/123/DD/840	295	1195	11-28	3015 - 4801	Up to 170	UGR<19	Digital Dimming	>80	4000
NST11-28/UGR/123/DD/860	295	1195	11-28	3015 - 4801	Up to 170	UGR<19	Digital Dimming	>80	6000

## 1200x600 Multi-wattage with UGR<19 microprismatic controller

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST17-40/UGR/126/830	595	1195	17-40	2978 - 6587	Up to 172	UGR<19		>80	3000
NST17-40/UGR/126/840	595	1195	17-40	3056 - 6786	Up to 182	UGR<19		>80	4000
NST17-40/UGR/126/860	595	1195	17-40	3034 - 6743	Up to 191	UGR<19		>80	6000

## 1200x600 Multi-wattage with UGR<19 microprismatic controller DD

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST17-40/UGR/126/DD/830	595	1195	11-40	2978 - 6587	Up to 172	UGR<19	Digital Dimming	>80	3000
NST17-40/UGR/126/DD/840	595	1195	11-40	3056 - 6786	Up to 182	UGR<19	Digital Dimming	>80	4000
NST17-40/UGR/126/DD/860	595	1195	11-40	3034 - 6743	Up to 191	UGR<19	Digital Dimming	>80	6000



# STERLING PRO **NEW**

## 600x600 Multi-wattage with opal diffuser

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-21/O/66/840	595	595	11-21	2013 - 3949	Up to 188	OPAL		>80	4000
NST17-28/O/66/840	595	595	17-28	3949 - 5129	Up to 186	OPAL		>80	4000

## 600x600 Multi-wattage with opal diffuser DD

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-28/O/66/DD/840	595	595	11-28	3949 - 5129	Up to 186	OPAL	Digital Dimming	>80	4000

## 1200x600 Multi-wattage with opal diffuser

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST17-40/O/126/840	595	1195	17-40	3698	Up to 186	OPAL		>80	4000

## 1200x600 Multi-wattage with opal diffuser DD

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST17-40/O/126/DD/840	595	1195	17-40	3698	Up to 186	OPAL	Digital Dimming	>80	4000

## CRI>90 600x600 Multi-wattage with UGR<19 microprismatic controller

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-21/UGR/66/940	595	595	11-21	3698	Up to 166	UGR<19		>90	4000
NST11-21/UGR/66/960	595	595	11-21	3460	Up to 166	UGR<19		>90	6000
NST17-28/UGR/66/940	595	595	17-28	2926 - 4613	Up to 166	UGR<19		>90	4000
NST17-28/UGR/66/960	595	595	17-28	3147	Up to 166	UGR<19		>90	6000

## CRI>90 600x600 Multi-wattage with UGR<19 microprismatic controller DD

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST11-28/UGR/66/DD/940	595	595	11-28	3698	Up to 166	UGR<19	Digital Dimming	>90	4000
NST11-28/UGR/66/DD/960	595	595	11-28	3460	Up to 166	UGR<19	Digital Dimming	>90	4000

## Accessories

ORDER CODE	DESCRIPTION	DIMENSIONS (mm)	
		WIDTH	LENGTH
NST/PRO/SMK/66	Sterling Pro Surface Mount Kit White For 600x600 Panel	600	600
NST/PRO/SMK/123	Sterling Pro Surface Mount Kit White For 1200x300 Panel	300	1200
NST/PRO/SMK/126	Sterling Pro Surface Mount Kit White For 1200x600 Panel	600	1200
NST/PRO/WSK/66-123	Sterling Pro Wire Suspension Kit 1.5m For 600x600 & 1200x300 Panel	0	1500
NST/PRO/WSK/126	Sterling Pro Wire Suspension Kit 1.5m For 1200x600 Panel	0	1500
NFU/RMF/66	Fulton Recessed Mount Frame For 600x600 Panels	640	640

## Optional - Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



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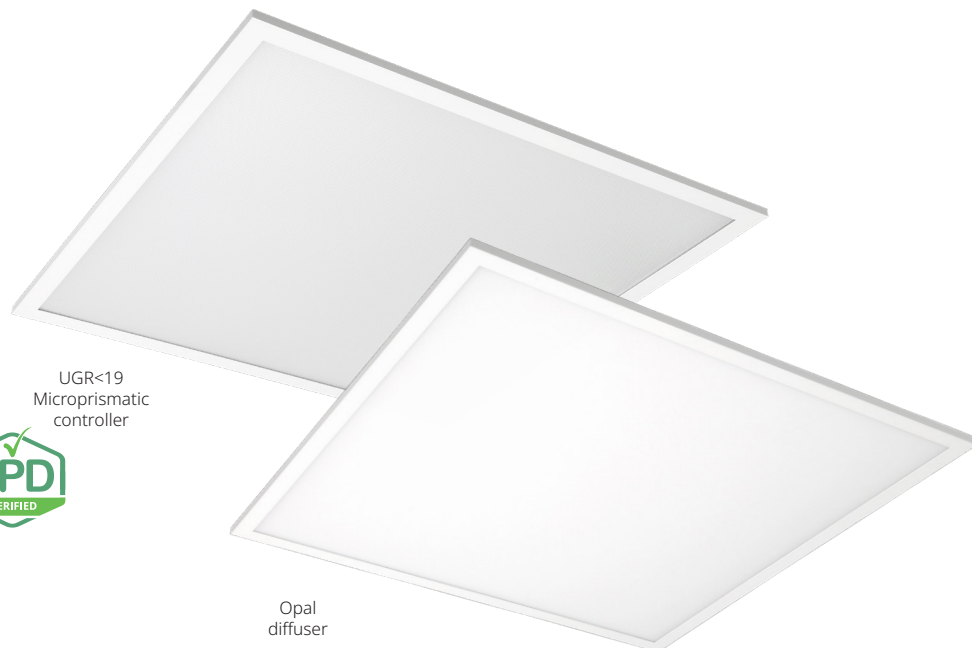


# STERLING CLASSIC

A TP(a) rated 600x600 panel with a range of wattages, lumen outputs, optics and installation options



UGR<19  
Microprismatic  
controller



Opal  
diffuser

## APPLICATIONS

- Offices
- General commercial use

## SPECIFICATION

- Edge-lit, with LEDs in an aluminium frame, painted white (RAL9016)
- Steel back plate, ribbed for strength and light weight
- TP(a) rated opal diffuser or microprismatic controller
- For lay-in installation in 15-24mm exposed T ceilings
- For surface, suspended or recessed (pull-up) installation with addition of accessories as listed opposite
- Supplied complete with a loop-in / loop-out connection block

## OPTIONS

### Output

- Standard 28W
- Low output 19W
- High output 37W

## Optics

- O: Opal diffuser
- UGR<19: Microprismatic controller, for projects requiring low glare

## Colour Temperature (CCT) & Colour Rendering Index (CRI)

- 4000K, CRI >80 & CRI>90
- 5000K, CRI >80 & CRI>90

## Emergency – all maintained 3 hours with lithium (LiFePO4) batteries

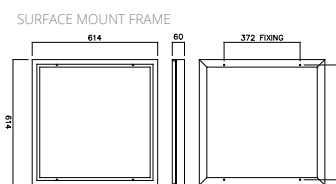
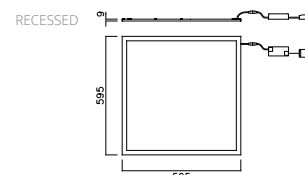
- For M3, M3 self-test and M3 with DALI addressable emergency testing, order one of the conversion packs listed overleaf
- CSDAM3L - Casambi addressable test
- HSDAM3L: HubSense addressable test

## Recessed, Surface & Suspended

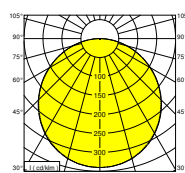
- Recessed (pull-up), surface and suspended installation kits available as listed opposite

## Dimming

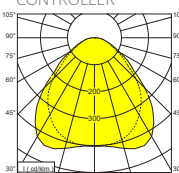
- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function - dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



OPAL DIFFUSER



UGR<19  
MICROPRISMATIC  
CONTROLLER



## KEY FEATURES

**LOW GLARE** – Achieves UGR<19 while allowing for excellent uniformity

**CRI CHOICE** – CRI>80 and CRI>90 options available

**OUTPUT OPTIONS** – Range of lumen packages to suit user requirements

**EFFICIENT** – Achieves up to 142 luminaire lumens per circuit watt

## SMART WIRELESS CONTROLS



CASAMBI

STERLING can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# STERLING CLASSIC

Standard output with opal diffuser in 4000K or 5000K

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST/O/66/840	595	595	28	3465	120	Opal		>80	4000
NST/O/66/850	595	595	28	3535	120	Opal		>80	5000

Low and high output with opal diffuser in 4000K

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST/O/66/LO/840	595	595	19	2662	139	Opal		>80	4000
NST/O/66/HO/840	595	595	37	4688	127	Opal		>80	4000

Standard Digital Dimming (DD) with opal diffuser in 4000K or 5000K

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST/O/66/DD/840	595	595	29	3465	120	Opal	Digital Dimming	>80	4000
NST/O/66/DD/850	595	595	29	3465	120	Opal	Digital Dimming	>80	5000

Standard with UGR<19 microprismatic controller in 4000K or 5000K, CRI 80 or CRI 90

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST/UGR19/66/840	595	595	25	3516	142	UGR<19		>80	4000
NST/UGR19/66/850	595	595	25	3373	141	UGR<19		>80	5000
NST/UGR19/66/940	595	595	25	3274	134	UGR<19		>90	4000
NST/UGR19/66/950	595	595	25	3147	128	UGR<19		>90	5000

Low and high output with UGR<19 microprismatic controller in 4000K, CRI 80 or CRI 90

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST/UGR19/66/LO/840	595	595	19	2430	126	UGR<19		>80	4000
NST/UGR19/66/HO/840	595	595	37	4682	127	UGR<19		>80	4000
NST/UGR19/66/LO/940	595	595	19	2430	126	UGR<19		>90	4000
NST/UGR19/66/HO/940	595	595	37	4682	127	UGR<19		>90	4000

Standard Digital Dimming (DD) with UGR<19 microprismatic controller in 4000K or 5000K, CRI 80 or CRI 90

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST/UGR19/66/DD/840	595	595	29	3698	126	UGR<19	Digital Dimming	>80	4000
NST/UGR19/66/DD/850	595	595	28	3460	120	UGR<19	Digital Dimming	>80	5000
NST/UGR19/66/DD/940	595	595	25	3274	134	UGR<19	Digital Dimming	>90	4000
NST/UGR19/66/DD/950	595	595	25	3147	128	UGR<19	Digital Dimming	>90	5000

Low and high output Digital Dimming (DD), with UGR<19 microprismatic controller in 4000K

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NST/UGR19/66/LO/DD/840	595	595	19	2430	126	UGR<19	Digital Dimming	>80	4000
NST/UGR19/66/HO/DD/840	595	595	37	4682	127	UGR<19	Digital Dimming	>80	4000



# STERLING CLASSIC

## INSTALLATION OPTIONS

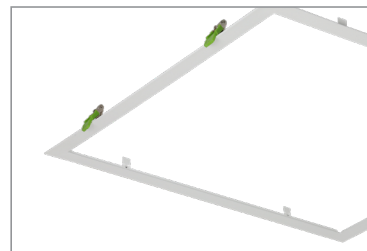
STERLING is for lay-in installation in a standard 15-24mm exposed T grid ceiling. For surface, suspended or recessed (pull-up) installation, just order the necessary installation kit, as listed here:



SURFACE MOUNT KIT



SUSPENSION KIT



RECESSED (PULL-UP)

## Accessories

ORDER CODE	DESCRIPTION	DIMENSIONS	
		WIDTH	LENGTH
NST/SMK/66	Sterling Surface Mount Kit White For 600x600 Panel	600	600
NFU/WIRE/SUSP/KIT	Fulton Wire Suspension Kit	-	1500
NFU/RMF/66	Fulton Recessed Mount Frame For 600X600 Panels	640	640

## Optional - Emergency conversion pack

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



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# LINCOLN

A TP(a) rated, feature-rich fitting, offering an alternative aesthetic



## APPLICATIONS

- Offices
- General commercial use

## SPECIFICATION

- Aluminium and steel body, painted white (RAL9016)
- TP(a) rated microprismatic controller for UGR<19 installations
- For 15-24mm exposed T ceilings
- Supplied complete with a loop-in / loop-out connection block

## OPTIONS

### Output

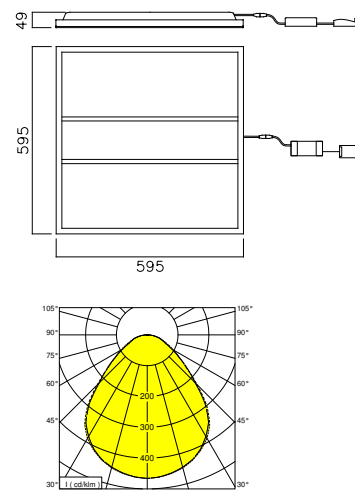
- Standard, 28W
- Low output (LO), 18W
- High output (HO), 34W

### Emergency – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- For M3, M3 self-test and M3 with DALI addressable emergency testing, order one of the conversion packs listed below
- CSDAM3L - Casambi addressable test
- HSDAM3L: HubSense addressable test

### Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



	ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)	
	WIDTH	LENGTH									
	FIXED OUTPUT										
	NLN/66/840	595	595	28	3200	116	UGR<19		>80	4000	
	NLN/66/LO/840	595	595	18	2130	116	UGR<19		>80	4000	
	NLN/66/HO/840	595	595	34	3830	110	UGR<19		>80	4000	
	DIGITAL DIMMING										
	NLN/66/DD/840	595	595	28	3200	116	UGR<19	Digital Dimming	>80	4000	
	NLN/66/LO/DD/840	595	595	18	2130	116	UGR<19	Digital Dimming	>80	4000	
	NLN/66/HO/DD/840	595	595	34	3830	110	UGR<19	Digital Dimming	>80	4000	

## Optional - Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



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## SMART WIRELESS CONTROLS



CASAMBI

LINCOLN can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# BISMARCK

TP(a) and IP54 rated panel for clean room and laboratory environments



## APPLICATIONS

- Laboratories
- Commercial kitchens and clean rooms

## SPECIFICATION

- Steel body, painted gloss white (RAL???)
- TP(a) rated prismatic controller with wipe-clean exterior surface
- For lay-in installation in 15-24mm exposed T ceilings and for recessed (pull-up) installation in plasterboard ceilings using brackets included

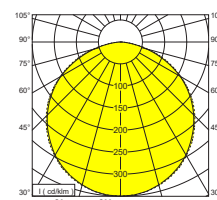
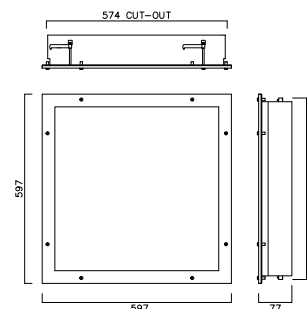
## OPTIONS

**Emergency** – all maintained 3 hours with lithium (LiFePO4) batteries

- For M3, M3 self-test and M3 with DALI addressable emergency testing, order one of the conversion packs listed below
- CSDAM3L - Casambi addressable test
- HSDAM3L; HubSense addressable test

## Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



SUPPLIED COMPLETE WITH  
SIDE-ARM SUPPORT BRACKETS

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	CRI	CCT (K)
	WIDTH	LENGTH						
NBI28/840/TPA	597	597	28	3435	123	Opal	>80	4000

## Optional - Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO4 For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO4 Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



SEE PAGE 77

## SMART WIRELESS CONTROLS



BISMARCK can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details - [technical@nvcuk.com](mailto:technical@nvcuk.com)



Panel with a range of sizes,  
optics and installation options



- Offices
- General commercial use

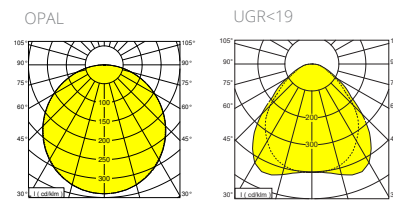
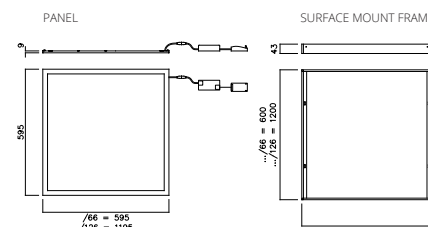
- Edge-lit, with LEDs held in an aluminium frame, painted white (RAL9016)
- Steel back plate
- TP(b) rated UV stable polystyrene front cover
- For lay-in installation in 15-24mm exposed T ceilings
- For surface, suspended or recessed (pull-up) installation, order one of the accessories listed opposite.
- Supplied complete with a loop-in / loop-out connection block

- O: Opal diffuser
- UGR<19: Microprismatic controller, for projects requiring lower glare

- For M3, M3 self-test and M3 with DALI addressable emergency testing, order one of the conversion packs listed opposite

- Surface, suspended and recessed (pull-up) installation kits available, as listed opposite

- DD: DALI and switch dim



Standard with opal diffuser in 4000K or 5000K (600x600)

ITEM NO.	ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
		WIDTH	LENGTH							
	NFU/O/66/840	595	595	29	3540	122	Opal		>80	4000
	NFU/O/126/840	1195	595	55	6780	124	Opal		>80	4000
	NFU/O/66/850	595	595	29	3615	120	Opal		>80	5000

Standard and Digital Dimming (DD) with opal diffuser in 4000K or 5000K (600x600)

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NFU/O/66/DD/840	595	595	29	3540	122	Opal	Digital Dimming	>80	4000
NFU/O/126/DD/840	1195	595	55	6780	124	Opal	Digital Dimming	>80	4000
NFU/O/66/DD/850	595	595	29	3615	120	Opal	Digital Dimming	>80	5000

Standard and Digital Dimming (DD) with UGR&lt;19 microprismatic controller in 4000K

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	OPTICS	DIMMING	CRI	CCT (K)
	WIDTH	LENGTH							
NFU/UGR19/66/840	595	595	29	3475	120	UGR<19		>80	4000
NFU/UGR19/66/DD/840	595	595	29	3475	120	UGR<19	Digital Dimming	>80	4000

# FULTON

## INSTALLATION OPTIONS

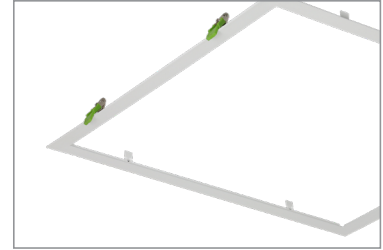
FULTON is for lay-in installation in a standard 15-24mm exposed T grid ceiling.  
For, surface, suspended and recessed (pull-up) installation, just order the necessary installation kit, as listed here:



SURFACE MOUNT KIT



SUSPENSION KIT



RECESSED (PULL-UP) MOUNT FRAME

## Accessories

ORDER CODE	DESCRIPTION	DIMENSIONS (mm)	
		WIDTH	LENGTH
NFU/SMK/66	Fulton Surface Mount Kit White For 600X600 Panel	600	600
NFU/SMK/126	Fulton Surface Mount Kit White For 1200X600 Panel	600	1200
NFU/WIRE/SUSP/KIT	Fulton Wire Suspension Kit	-	1500
NFU/RMF/66	Fulton Recessed Mount Frame For 600X600 Panels	640	640

## Optional - Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



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# FLORIDA

A 600x600 panel with an opal diffuser or UGR<19 microprismatic controller



APPLICATIONS

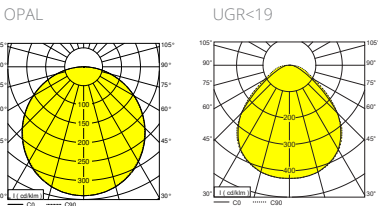
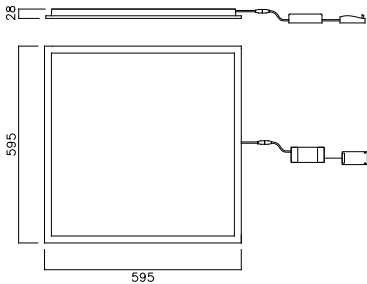
- Offices
- General commercial use

SPECIFICATION

- Aluminium frame, painted white (RAL9003)
- TP(b) rated UV stable polystyrene opal diffuser or microprismatic controller
- For lay-in installation in 15-24mm exposed T ceilings
- Supplied complete with a loop-in / loop-out connection block

OPTIONS

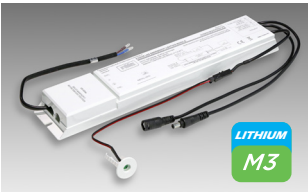
- Optics
- O: Opal diffuser
  - UGR<19: Microprismatic controller, for projects requiring lower glare
- Emergency – all maintained 3 hours with lithium (LiFePO4) batteries**
- For M3 manual test and M3 self-test, please order one of the emergency conversion packs listed below.



ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (Lm/c.W)	OPTICS	CRI	CCT (K)
	WIDTH	LENGTH						
NFL/O/66/840	595	595	27	3369	123	Opal	>80	4000
NFL/UGR19/66/840	595	595	27	3595	135	UGR<19	>80	4000

Optional - Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO4 For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO4 Self Test For Recessed Product Ranges



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# EMERGENCY LIGHTING



64

NEBRASKA LiFe



66

DAKOTA LiFe



67

LEXINGTON LiFe



68

ARLINGTON LiFe



70

SENECA LiFe  
RECESSED



71

SENECA LiFe  
SURFACE



72

SYRACUSE LiFe



74

KANSAS LiFe



76

EMERGENCY  
CONVERSION  
PACKS





# EMERGENCY LIGHTING WITHOUT COMPROMISE

Our emergency lighting products are branded **LiFe**, recognising the safety critical role they play and providing reassurance to building users.



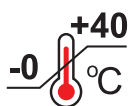
**LITHIUM only.** LiFePO<sub>4</sub> is the best battery technology available today, so all our **LiFe** products feature lithium batteries.



**7-YEAR WARRANTY.** All **LiFe** products carry a 7-year warranty, from the date of installation, and that includes the batteries.



**ICEL CERTIFIED.** LiFe products are ICEL certified, so they have been independently tested to the highest standards.



**INTERMITTENT CHARGE CYCLE** - Enables usage in higher ambient temperatures with no impact to battery design life.



**ENVIRONMENTAL PRODUCT DECLARATIONS (EPDs)** - Providing clear insights into our products' life cycles and environmental impacts.

Unless otherwise stated, all signs are Euro style. ISO legends are available and are identified with ISO in the part number.



*Euro style*



*ISO 7010 /  
BS5266 style*



# EMERGENCY TESTING ARE YOU IN THE FIRING LINE?

Are you the  
“Responsible Person”?  
Or is it your client?

The Responsible Person has to ensure that the tests are done every month, the results are recorded and the records are kept for 5 years.

The penalty for failing to do this is a fine or a prison sentence.

Getting worried? You should be.

**There are choices as to how you go about emergency lighting testing.  
Here are the options:**

**1 MANUAL TEST**  
Still popular, but best kept for  
small projects only

**2 SELF TEST**  
With a rapid payback, it's great for  
many small & medium sized projects

## ADDRESSABLE TEST

Testing and record keeping are fully automated, so there are zero running costs, legal compliance is guaranteed and user safety is assured. We offer two addressable test solutions

**3 WIRED  
ADDRESSABLE  
DALI**

**4 WIRELESS  
ADDRESSABLE**  
Casambi or HubSense

To help you choose the best approach for your projects call our technical office for advice. Alternatively, we offer a certified CPD seminar on Emergency Lighting Testing. Speak to your local NVC representative, or call +44(0)121 457 6340 to arrange for this to be delivered on your site.

**CPD**  
**MEMBER**  
The CPD Certification  
Service



# NEBRASKA LiFe

IP65 emergency bulkhead available in manual test, self-test, DALI addressable and wireless addressable test versions



*Euro style*



*ISO 7010 /  
BS5266 style*

## APPLICATIONS

- Exits and escape routes

## SPECIFICATION

- Polycarbonate base and cover
- Gear tray and cover in one piece for faster installation
- Supplied with either Euro or ISO legend pack
- Lithium batteries included
- Can be installed in maintained (M3) or non-maintained (NM3) mode
- 20m maximum viewing distance, 30m with drop down attachment
- Designed to operate from 0°C to 40°C

## OPTIONS

### Test methods

- M3: Manual test
- STM3: Self-test
- DAM3: DALI addressable test
- CSDAM3: Casambi addressable test
- HSDAM3: HubSense addressable test

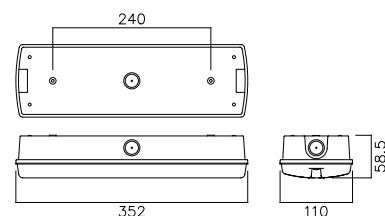
### Legends are available in two styles

- Euro style (92/58/EEC) or
- ISO style (ISO7010/BS5266) – ISO

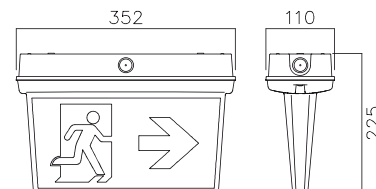
**Mounting accessories** (optional) are available for ordering separately

- Drop down attachment (see line drawing) with legends
- Recessed mounting kit – for semi-recessed installation. Cut-out 360 x 120mm required.

### STANDARD FITTING



### NEBRASKA WITH DROP DOWN ATTACHMENT



## KEY FEATURES

**GREENER TECHNOLOGY** – Uses longer lasting and safer lithium (LiFePO<sub>4</sub>) batteries

**7-YEAR WARRANTY** – Including the batteries

**TEST OPTIONS** – Manual test, self-test, DALI addressable and wireless addressable

**HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

## SMART WIRELESS CONTROLS



**CASAMBI**

NEBRASKA LiFe can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

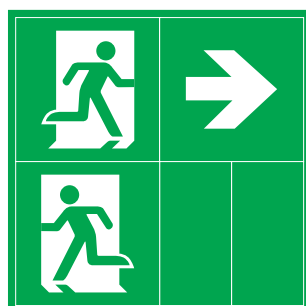
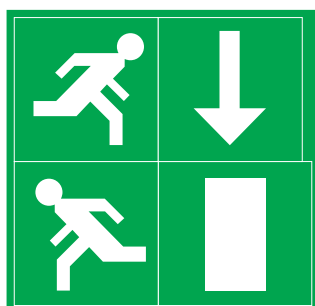
Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# NEBRASKA LiFe

ORDER CODE	POWER	LUMENS (lm)	LEGENDS	EMERGENCY
NNE/M3	2	Mains-195 Emergency-133	EURO	Manual-test
NNE/M3/ISO	2	Mains-195 Emergency-133	ISO	Manual-test
NNE/STM3	2	Mains-195 Emergency-133	EURO	Self-test
NNE/STM3/ISO	2	Mains-195 Emergency-133	ISO	Self-test
DALI ADDESSABLE				
NNE/DAM3	2	Mains-195 Emergency-133	EURO	DALI Addressable
NNE/DAM3/ISO	2	Mains-195 Emergency-133	ISO	DALI Addressable
WIRELESS ADDRESSABLE				
NNE/HS/DAM3	2	Mains-195 Emergency-133	EURO	HubSense Addressable
NNE/HS/DAM3/ISO	2	Mains-195 Emergency-133	ISO	HubSense Addressable

## Accessories

ORDER CODE	DESCRIPTION
NNELEP4	Nebraska LiFe EURO legend pack
NNE/ISO/LEP4	Nebraska LiFe ISO legend pack
NNE/RMK	Nebraska LiFe Recessed Mounting Kit
NNE/DDA	Nebraska LiFe Drop Down Attachment c/w Legends Pack





# DAKOTA LiFe

IP65 high output non-maintained emergency bulkhead available in manual test, self-test, DALI addressable and wireless addressable test versions



## APPLICATIONS

- For area emergency lighting in warehouse and industrial applications

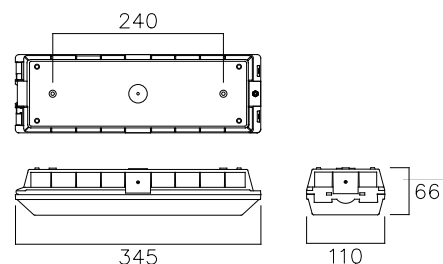
## SPECIFICATION

- White polycarbonate base (RAL9016)
- UV stable clear polycarbonate controller
- Polycarbonate gear tray snap fitted to controller
- Lithium batteries included
- For non-maintained (NM3) operation
- Designed to operate from 0°C to 40°C

## OPTIONS

### Test methods

- M3: Manual test
- STM3: Self-test
- DAM3: DALI addressable test
- CSDAM3: Casambi addressable test
- HSDAM3: HubSense addressable test



## KEY FEATURES

**HIGH OUTPUT** – Suitable for high mounting heights in warehouses & industrial spaces

**7-YEAR WARRANTY** – Including the batteries

**TEST OPTIONS** – Manual test, self-test, DALI addressable and HubSense addressable

**HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

## SMART WIRELESS CONTROLS



**CASAMBI**

DAKOTA LiFe can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

ORDER CODE	POWER	LUMENS (lm)	EFFICACY (l.m/c.W)	EMERGENCY
NDK/NM3	6	1119	187	Manual-test
NDK/STNM3	6	1119	187	Self-test
<b>ADDRESSABLE</b>				
NDK/DANM3	6	1170	195	DALI Addressable
NDK/HSDANM3	6	1170	195	HubSense Addressable (Wireless)

# LEXINGTON LiFe

Emergency exit box in manual test, self-test, DALI addressable and Wireless addressable test versions

WITH EURO LEGEND



WITH ISO LEGEND



## APPLICATIONS

- Exits and escape routes

## SPECIFICATION

- Steel body, painted white
- Polycarbonate legend panel
- Supplied with either Euro "down arrow" or ISO "up arrow" legend for ahead indication
- Lithium batteries included
- For installation in maintained (M3) or non-maintained (NM3) mode
- 30m maximum viewing distance
- Designed to operate from 0°C to 40°C

## OPTIONS

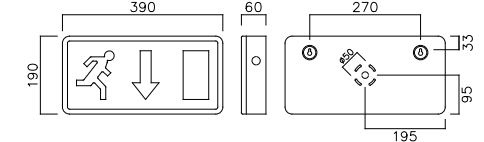
### Test methods

- M3: Manual test
- STM3: Self-test
- DAM3: DALI addressable test
- CSDAM3: Casambi addressable test
- HSDAM3: HubSense addressable test

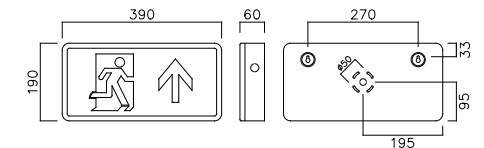
### Legends are available in two styles

- Euro style (92/58/EEC) or
- ISO style (ISO7010/BS5266) – ISO

WITH EURO LEGEND



WITH ISO LEGEND



## KEY FEATURES

**7-YEAR WARRANTY** – Including the batteries

**TEST OPTIONS** – Manual test, self-test, DALI addressable and wireless addressable

**HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

## SMART WIRELESS CONTROLS



CASAMBI

LEXINGTON LiFe can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

ORDER CODE	POWER	LEGEND	EMERGENCY
NLE/M3	1	EURO	Manual-test
NLE/STM3	1	EURO	Self-test
NLE/M3/ISO-U	1	ISO-UP	Manual-test
NLE/STM3/ISO-U	1	ISO UP	Self-test
<b>ADDRESSABLE</b>			
NLE/DAM3	1	EURO	DALI Addressable
NLE/DAM3/ISO-U	1	ISO-UP	DALI Addressable
NLE/HS/DAM3	1	EURO	HubSense Addressable (Wireless)
NLE/HS/DAM3/ISO-U	1	ISO UP	HubSense Addressable (Wireless)

## Legends

ORDER CODE	LEGEND
NLE/LE/DOWN	EURO
NLE/LE/LEFT	EURO
NLE/LE/RIGHT	EURO
NLE/LE/UP	EURO
NLE/ISO/LE/DOWN	ISO
NLE/ISO/LE/LEFT	ISO
NLE/ISO/LE/RIGHT	ISO
NLE/ISO/LE/UP	ISO



# ARLINGTON LiFe

Drop-blade exit sign in manual test, self-test, DALI addressable and wireless addressable test versions



## APPLICATIONS

- Exits and escape routes

## SPECIFICATION

- White polycarbonate body
- Acrylic legend panel with changeable legends
- Body rotates 90° to allow direct fixing to ceiling or wall without mounting accessories
- Supplied with either Euro "down arrow" or ISO "up arrow" legend for ahead indication
- Lithium batteries included
- For installation in maintained (M3) or non-maintained (NM3) mode
- 30m maximum viewing distance
- Designed to operate from 0°C to 40°C

## OPTIONS

### Test methods

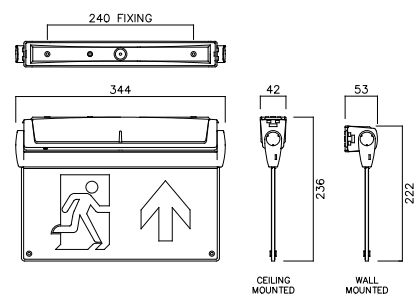
- M3: Manual test
- STM3: Self-test
- DAM3: DALI addressable test
- CSDAM3: Casambi addressable test
- HSDAM3: HubSense addressable test

### Legends are available in two styles

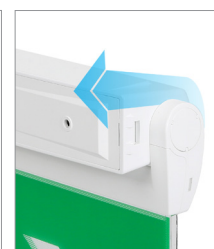
- Euro style (92/58/EEC) or
- ISO style (ISO7010/BS5266) – ISO

### Mounting accessories (optional) available for:

- Recessed mounting
- Wire suspension
- Side wall mounting



HEAD POSITIONED FOR  
CEILING MOUNTING



HEAD ROTATED 90°  
FOR WALL MOUNTING

## KEY FEATURES

**7-YEAR WARRANTY** – Including the batteries

**TEST OPTIONS** – Manual test, self-test, DALI addressable and HubSense addressable

**VERSATILE** – Can be mounted in 5 different ways

**HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

## SMART WIRELESS CONTROLS



CASAMBI

ARLINGTON LiFe can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# ARLINGTON LiFe

## Legends

ORDER CODE	POWER	LEGEND	EMERGENCY
NAL/M3	2	EURO	Manual-test
NAL/STM3	2	EURO	Self-test
NAL/M3/ISO-U	2	ISO-UP	Manual-test
NAL/STM3/ISO-U	2	ISO UP	Self-test
ADDRESSABLE			
NAL/DAM3	2	EURO	DALI Addressable
NAL/DAM3/ISO-U	2	ISO-UP	DALI Addressable
NAL/HSDAM3	2	EURO	HubSense Addressable (Wireless)
NAL/HSDAM3/ISO-U	2	ISO UP	HubSense Addressable (Wireless)
NAL/CSDAM3	2	EURO	Casambi Addressable (Wireless)
NAL/CSDAM3/ISO-U	2	ISO UP	Casambi Addressable (Wireless)

ORDER CODE	LEGEND
NAL/LE/LR	EURO
NAL/LE/UP	EURO
NAL/ISO/LE/LR	ISO
NAL/ISO/LE/UP	ISO
NAL/ISO/LE/DOWN	ISO



NAL/LE/UP



NAL/LE/LR



NAL/LE/DOWN/ISO



NAL/LE/UP/ISO



NAL/LE/LR/ISO

## Accessories

RECESSED CEILING KIT

SIDE WALL MOUNTED BRACKET

WIRE SUSPENSION KIT

ORDER CODE	DESCRIPTION
NAL/RMK	Arlington LiFe Recessed Mounting Kit
NAL/SWMK	Arlington LiFe Side Wall Mounting Kit
NAL/WSK	Arlington LiFe Wire Suspension Kit

# SENECA LiFe (Recessed)

Recessed non-maintained emergency downlights

CHANGEABLE LENS - COMES WITH BOTH WIDE AND OVAL DISTRIBUTION OPTIONS



SENECA RECESSED AVAILABLE IN BLACK

## APPLICATIONS

- Open areas and escape routes

## SPECIFICATION

- Polycarbonate body
- Manual & self-test versions available in black (BK) or white, each supplied with 2 acrylic lenses as standard:
  - Wide, giving a circular light distribution – suitable for open areas
  - Oval, giving an oval light distribution – suitable for escape routes
- Wireless & DALI addressable versions available
- Lithium batteries included
- Designed to operate from 0°C to 40°C

## OPTIONS

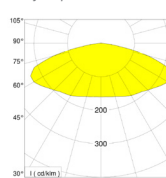
### Test methods

- M3: Manual test
- STM3: Self-test
- DAM3: DALI addressable test
- CSDAM3: Casambi addressable test
- HSDAM3: HubSense addressable test

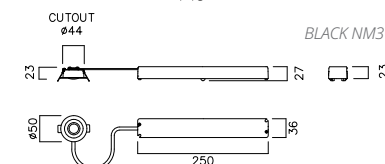
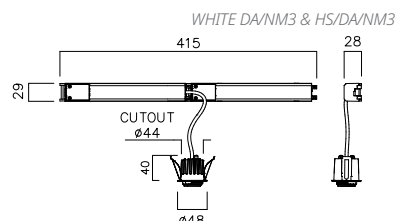
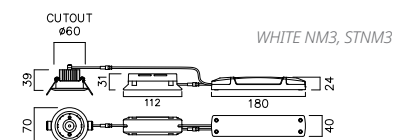
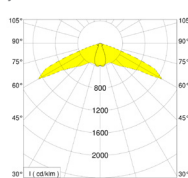
### Blank in-fill ring

- To be ordered separately. Allows SENECA LiFe (recessed) (white manual test and white self-test variants only) to be installed in an aperture up to 110mm diameter. Not compatible with black or wireless and DALI variants

**WIDE VERSION**  
Light distribution with wide lens for open areas.



**OVAL VERSION**  
Light distribution with oval lens for corridors.



## KEY FEATURES

**7-YEAR WARRANTY** – Including the batteries

**TEST OPTIONS** – Manual test, self-test, DALI addressable and HubSense addressable

**VERSATILE** – Choice of lenses supplied for wide or oval distribution

**HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

ORDER CODE	BODY COLOUR	MOUNTING	POWER	LUMENS (lm)	OPTICAL DIRECTION	EMERGENCY
NSC3/REC/NM3	White	Recessed	3	190	Wide and oval	Manual-test
NSC3/REC/STM3	White	Recessed	3	190	Wide and oval	Self-test
<b>ADDRESSABLE</b>						
NSC/REC/DA/NM3	White	Recessed	1.8	200	Wide and oval	DALI addressable
NSC3/REC/HS/DA/NM3	White	Recessed	1.8	200	Wide and oval	HubSense Addressable
<b>BLACK</b>						
NSC/BK/REC/NM3	Black	Recessed	1	160	Wide and oval	Manual-test
<b>ACCESSORIES</b>						
NSC3/BLANK-FILL/RING	Seneca LiFe Blank In-fill Ring (White)					

## SMART WIRELESS CONTROLS



CASAMBI

Contact our technical team for details  
technical@nvcuk.com



# SENECA LiFe (Surface)

Surface mounted non-maintained emergency downlights



IP65 RATED SENECA SURFACE  
AVAILABLE IN BLACK



SENECA SURFACE COMES WITH BOTH  
WIDE AND OVAL LENSES WHICH TWIST  
AND LOCK IN POSITION



## APPLICATIONS

- Open areas and escape routes

## SPECIFICATION

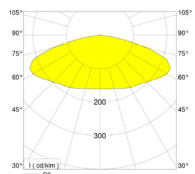
- Polycarbonate body
- Manual & self-test versions available in black (BK) or white, each supplied with 2 acrylic lenses as standard:
  - o Wide, giving a circular light distribution – suitable for open areas
  - o Oval, giving an oval light distribution – suitable for escape routes
- DALI addressable versions available.
- Lithium batteries included
- Designed to operate from 0°C to 40°C

## OPTIONS

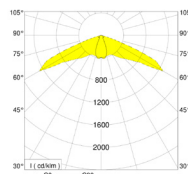
### Test methods

- NM3: Manual test
- STNM3: Self-test
- HSDA/NM3: HubSense addressable test
- CSDA/NM3: Casambi addressable test
- DA/NM3: DALI addressable test

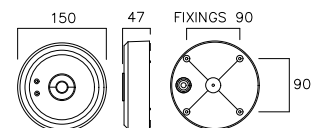
WIDE VERSION  
Light distribution with wide lens for open areas.



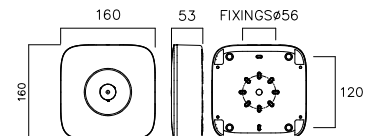
OVAL VERSION  
Light distribution with oval lens for corridors.



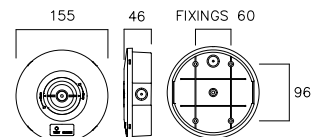
WHITE NM3 & STNM3



WHITE DA/NM3



BLACK NM3



## KEY FEATURES

**7-YEAR WARRANTY** – Including the batteries

**TEST OPTIONS** – Manual test, self-test, DALI addressable

**VERSATILE** – Choice of lenses supplied for wide or oval distribution

**HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

ORDER CODE	BODY COLOUR	MOUNTING	POWER	LUMENS (lm)	OPTICAL DIRECTION	EMERGENCY
NSC/SURF/NM3	White	Surface	2	217	Wide and oval	Manual-test
NSC/SURF/STNM3	White	Surface	2	217	Wide and oval	Self-test
<b>ADDRESSABLE</b>						
NSC/SURF-W/DA/NM3	White	Surface	1.3	200	Wide	DALI addressable
NSC/SURF-O/DA/NM3	White	Surface	1.3	200	Oval	DALI addressable
<b>BLACK IP65</b>						
NSC/BK/IP65/SURF/RD/NM3	Black	Surface	2	270	Wide and oval	Manual-test

## SMART WIRELESS CONTROLS



CASAMBI

Contact our technical team for details  
technical@nvcuk.com

# SYRACUSE LiFe

A recessed non-maintained emergency downlight



CHANGEABLE LENS - COMES WITH BOTH WIDE & OVAL DISTRIBUTION OPTIONS

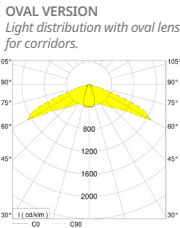
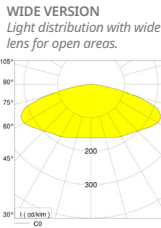
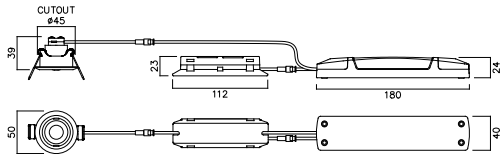
MODULE AND LiFePO4 BATTERY

APPLICATIONS

- Open areas and escape routes

SPECIFICATION

- White polycarbonate body
- Supplied with 2 lenses as standard:
  - Wide, giving a circular light distribution - suitable for open areas
  - Oval, giving an oval light distribution - suitable for escape routes
- Lithium batteries included
- Designed to operate from 0°C to 40°C



KEY FEATURES

- 7-YEAR WARRANTY** – Including the batteries
- VERSATILE** – Choice of lenses supplied for wide or oval distribution
- HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

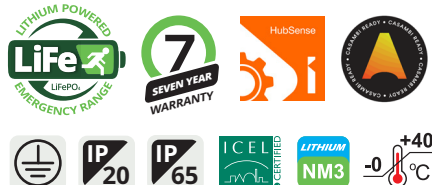
ORDER CODE	BODY COLOUR	MOUNTING	POWER	LUMENS (lm)	OPTICAL DIRECTION	EMERGENCY
NSY1/NM3	White	Recessed	1	119	Wide / Oval	Manual-test





# KANSAS LiFe

A range of IP20 and IP65 non-maintained emergency twinspots



## APPLICATIONS

- Industrial and warehouse projects
- Final exits

## SPECIFICATION

- Polycarbonate body, black or white
- Polycarbonate heads, including lenses, which can be rotated and tilted
- Suitable for mounting in any orientation
- Lithium (LiFePO<sub>4</sub>) batteries included
- Designed to operate from 0°C to 40°C

## OPTIONS

**IP rating** – choice of IP20 and IP65

### Test methods

- NM3: Manual test
- STNM3: Self-test
- DA/NM3: DALI addressable test
- CSDA/NM3: Casambi addressable test
- HS/DANM3: HubSense addressable test

**Body colour** – choice of white or black

## KEY FEATURES

**FLEXIBILITY** – Options to cover different outputs and functionality needs

**7-YEAR WARRANTY** – Including the batteries

**COLOUR CHOICES** – Available in white or black

**HIGH AMBIENT OPERATING TEMPERATURE** – Up to 40°C

## SMART WIRELESS CONTROLS



CASAMBI

KANSAS LiFe can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# KANSAS LiFe



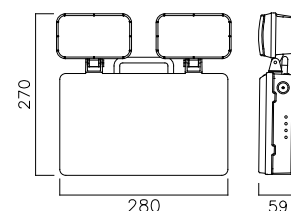
HIGH OUTPUT IP65 - MANUAL TEST



ADDRESSABLE IP65

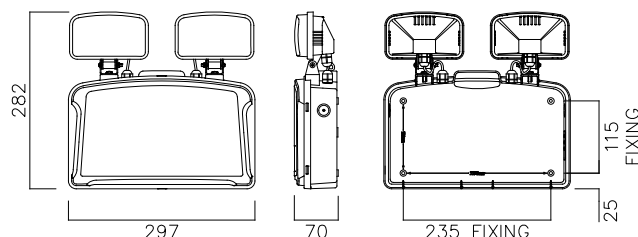
## Manual Test IP20

ORDER CODE	COLOUR	IP RATING	POWER (W)	LUMENS (lm)	EMERGENCY
NKS/NM3	WHITE	20	2x3	300	Manual-test



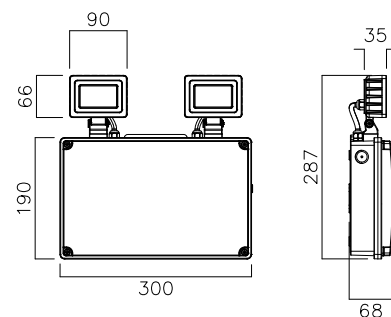
## Manual & Self Test IP65

ORDER CODE	COLOUR	IP RATING	POWER (W)	LUMENS (lm)	EMERGENCY
NKS/IP65/NM3	WHITE	65	2x3	380	Manual-test
NKS/IP65/STNM3	WHITE	65	2x3	380	Self-Test



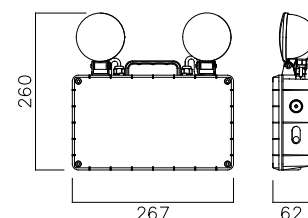
## High Output IP65 - Manual Test

ORDER CODE	COLOUR	IP RATING	POWER (W)	LUMENS (lm)	EMERGENCY
NKS/IP65/HO/NM3	WHITE	65	9	1000	Manual Test
NKS/BK/IP65/HO/NM3	BLACK	65	9	1000	Manual Test
NKS/BK/IP65/NM3	BLACK	65	5	500	Manual Test



## Addressable IP65

ORDER CODE	COLOUR	IP RATING	POWER (W)	LUMENS (lm)	EMERGENCY
NKS/IP65/DA/NM3	WHITE	65	2x3	768	DALI Addressable
NKS/BK/IP65/DA/NM3	BLACK	65	2x3	768	DALI Addressable
NKS/IP65/HS/DANM3	WHITE	65	2x3	768	HubSense Addressable
NKS/BK/IP65/HS/DANM3	BLACK	65	2x3	768	HubSense Addressable



# EMERGENCY CONVERSION PACKS

For

- High-bays
- Panels & downlights
- Linear & bulkhead fittings

	Manual Test	Self Test	DALI Addressable Test
High bays	✓	✓	✗
Panels & downlights	✓	✓	✓
Linear & bulkheads	✓	✓	✗

All our emergency conversion packs are to be bought separately and can be held in stock and used on-site, to convert our fittings to emergency operation.

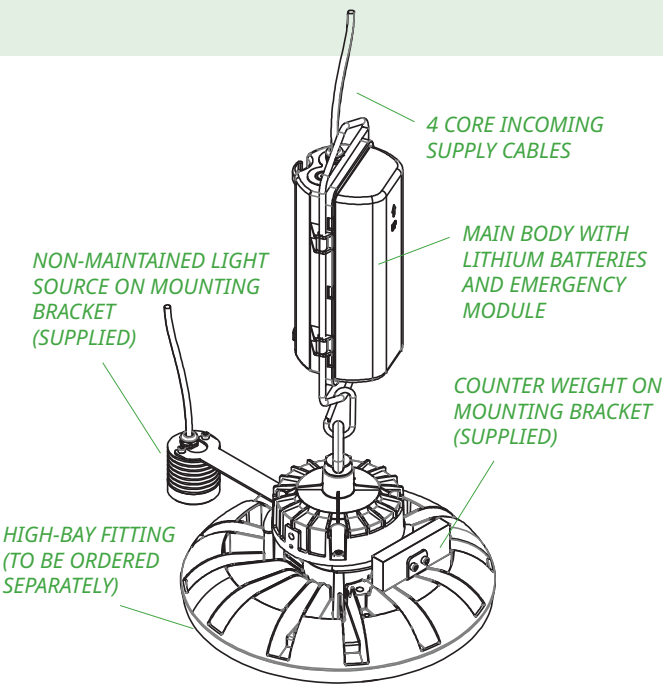
- **Plug-and-play simplicity.** Male/female connectors, no complex wiring, designed and manufactured to work with NVC fittings
- **7-year warranty,** batteries included
- **Complete with lithium batteries,** LED indicator lamp and any mounting brackets and hardware required
- **ICEL certified**



## HIGH BAYS

Our high-bay fittings (SATURN, JUPITER PRO & NEPTUNE) can all be converted to emergency operation, with manual or self-test, using one of our emergency conversion packs listed here.

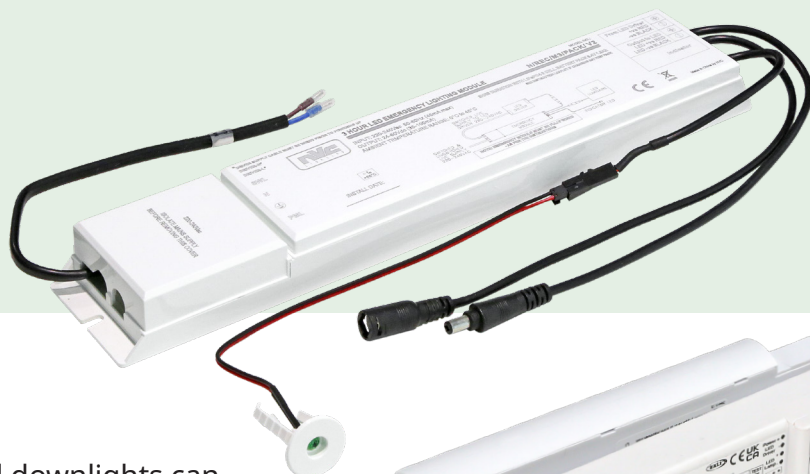
ORDER CODE	POWER	LUMENS (lm)	EFFICACY (l.m/c.w)	MOUNTING	EMERGENCY
N/HB/NM3L/PACK	8	1319	165	Suspended	Manual-test
N/HB/STNM3L/PACK	8	1319	165	Suspended	Self-test



## A GREAT ALTERNATIVE TO TWINSPOTS

- **Much easier to install.** No additional wiring is required – the conversion pack uses the same wiring as the high-bay itself.
- **Better light distribution.** The conversion pack puts the light right on the floor, where it is needed.
- **Less glare.** Because the conversion packs shine straight down, not at a low angle, they cause less glare than twinspots.
- **Can be installed stand-alone** as a non-maintained emergency luminaire.





## PANELS & DOWNLIGHTS

All our LED panels and our commercial downlights can be converted to emergency operation with manual test, self-test or DALI addressable test, using one of our emergency conversion packs listed here.

ORDER CODE	MOUNTING	POWER	EMERGENCY
N/REC/M3/PACK/V2	RECESSED	2	Manual-test
N/REC/STM3/PACK/V2	RECESSED	2	Self-test
N/REC/DAM3/PACK	RECESSED	2	DALI addressable

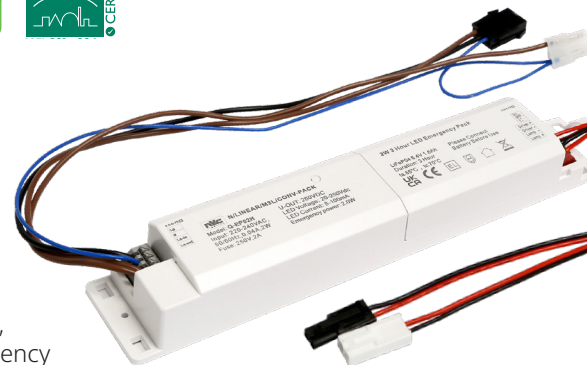


## LINEAR & BULKHEAD FITTINGS

Non-corrosives and larger bulkheads can now be converted to emergency (manual test or self-test) with our conversion packs

Plug / socket connectors and colour coded wiring make this a simple procedure, so now there is no need to calculate precisely, in advance, just how many emergency fittings you need in a project. With a few of our conversion packs in stock you can convert the NVC fittings to emergency as you need them.

ORDER CODE	MOUNTING	POWER	EMERGENCY
N/LINEAR/M3L/CONV-PACK	INTERNAL	2	Manual-test
N/LINEAR/STM3L/CONV-PACK	INTERNAL	2	Self-test









# INDUSTRIAL

**NEW**



80

GREENLAND PRO



84

GREENLAND



86

COLUMBUS



87

CLEVELAND



88

OREGON



92

TEMPE PRO



94

SATURN



96

KELSO



98

JUPITER PRO



100

NEPTUNE

**NEW**



**High efficacy:**  
up to 169 l.m/c.w  
Superior energy efficiency.

**Gear tray attached to diffuser**  
One step removal for fast access,  
easily unclips for replacement.

**Movable terminal block**  
Fix anywhere along the base to  
match incoming supply.

**NEW**

**INTRODUCING**

# GREENLAND PRO

Our new non-corrosive – easier than ever to install with a host of features including a moveable terminal block.

**1st FIX**

## BASE

All cable/conduit entry points  
pre-drilled, tapped and plugged

- No drilling
- IP66 rating ensured

Choice of moulded-in locations  
for terminal block

- Terminal block (on light engine) can be positioned as required

**2nd FIX**

## LIGHT ENGINE

Diffuser, LEDs, driver &  
terminal block in one unit

- Only one set of clips to open/close

Light engine detachable from base

- Keep it safe & separate while other trades keep working

Terminal block on flying lead

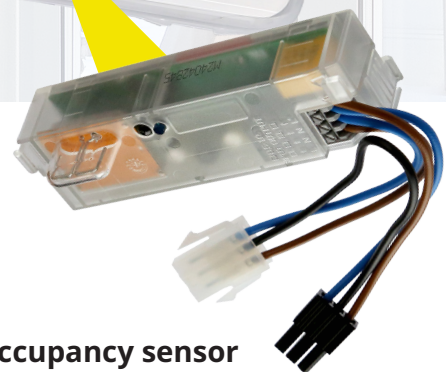
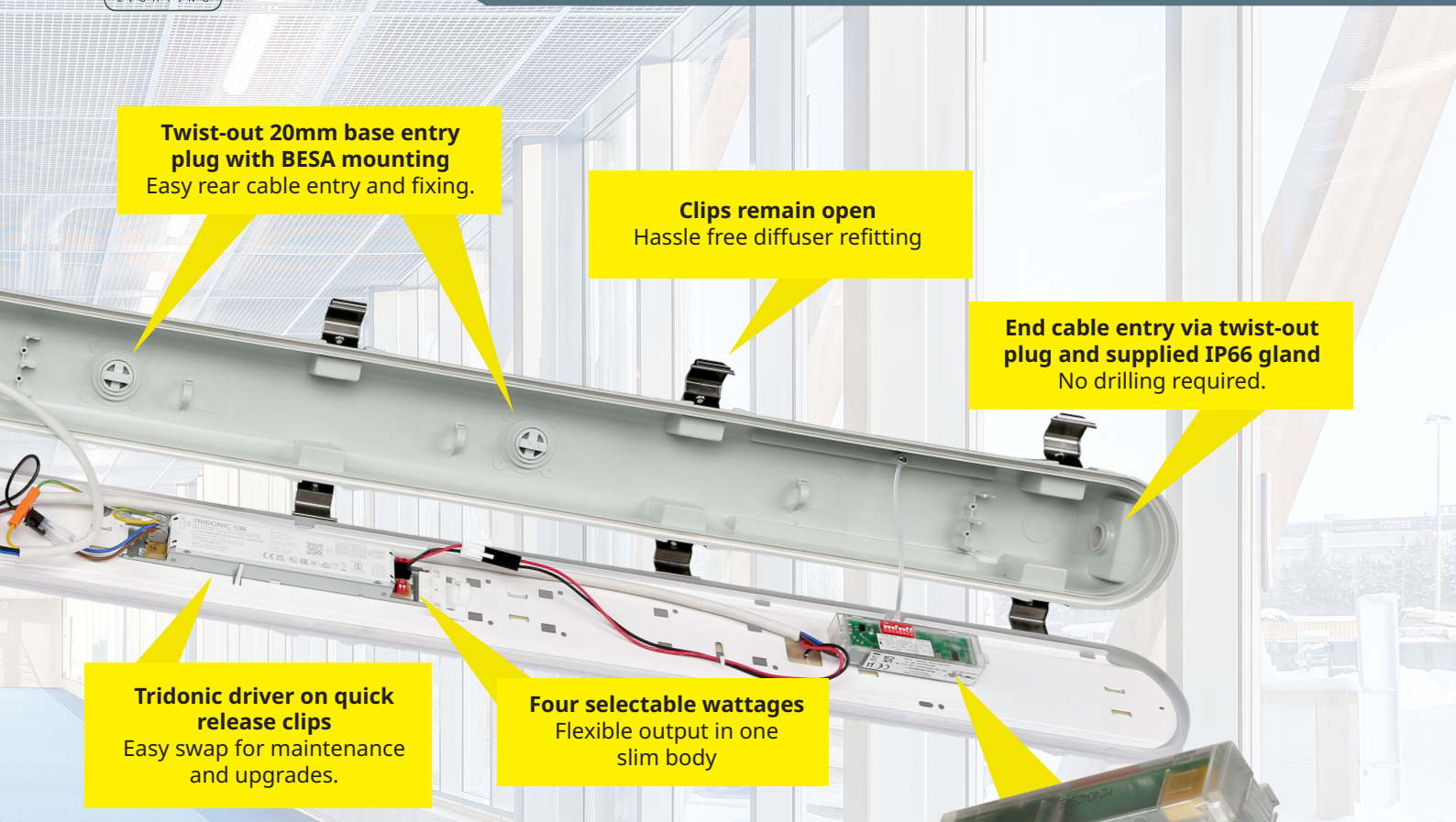
- Flexibility to place it as required in the base

### BASE: First fix

- Fix the base to the ceiling
  - Bring the mains supply in at the end or the rear
- Makes maximum use of less-skilled labour.  
Keeps the light engine safe while other trades keep working.

### LIGHT ENGINE: Second fix

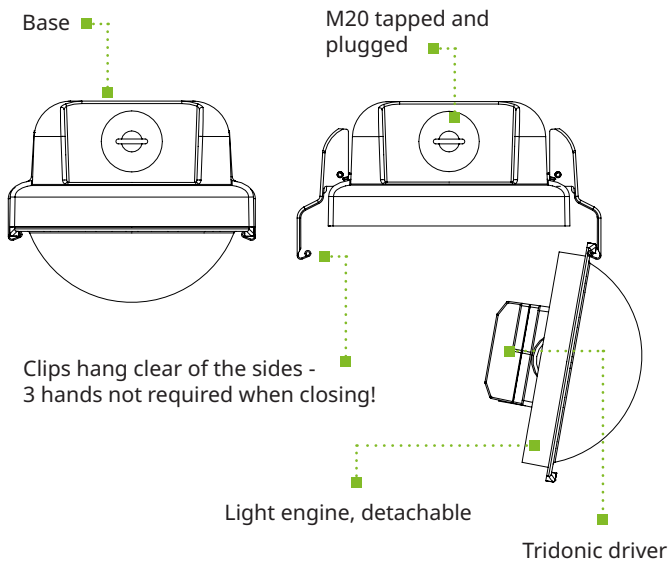
- Terminal block snap-fits into moulded positions in the base
- You place the terminal block where it's easiest for you
  - o At the end for end cable entry
  - o In the middle for rear cable entry



### MW occupancy sensor

- Micro-wave occupancy sensor available with adjustable:
  - o Switch-on lux threshold
  - o Hold time
  - o Sensitivity / detection area

This can be supplied ready fitted (suffix MW), or as a plug-in accessory for adding on site as required, as listed overleaf.



### Tapped holes in the rear for conduit entry

- Pre-drilled holes, tapped and sealed with IP66 plugs. No more drilling; IP66 guaranteed.

### Elongated mounting clip grooves.

- Precision positioning of clips not required.
- Mounting clips can be positioned as is convenient and the base can then be slid into the correct position.





# GREENLAND PRO **NEW**

All new IP66 rated non-corrosive, power selectable and designed to deliver the fastest and most convenient installation process yet



## APPLICATIONS

- Factories, garages and workshops
- Food preparation areas
- Rated to -20°C - +40°C (standard), 0°C - +40°C (emergency)

## SPECIFICATION

- Polycarbonate base and opal diffuser
- Grade 304 stainless steel clips
- 2-part construction
  - o **Base**, with prepared cable and conduit entry points.
  - o **Light engine**, with diffuser, LEDs, Tridonic driver and terminal block on flying lead
- Designed for two stage installation
  - o **First fix** – install base and introduce mains cables
  - o **Second fix** – attach light engine and connect supply to terminal block
- Tridonic driver

## OPTIONS

### Length

- 2', 4', 5' and 6' lengths available

### Wattages

- Each version is 4-way power selectable

## Colour temperature

- Fixed - 4000K only
- CCT selectable - giving a choice of 2700K, 4000K & 6000K

## Emergency – all maintained 3 hours with lithium (LiFePO4) batteries

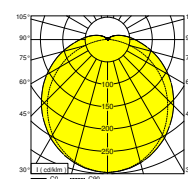
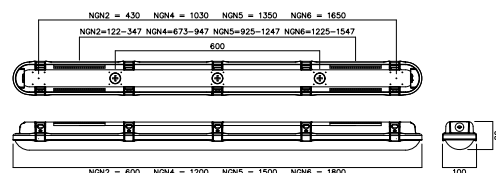
- M3L: Manual test
- STM3L: Self-test
- CSDAM3L - Casambi addressable test
- HSDAM3L: HubSense addressable test
- DAM3L: DALI addressable test
- Emergency conversion packs (M3L and STM3L) are also available to be ordered separately for conversion on site, as listed.

## Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

## Sensor

- MW: Supplied with microwave sensor fitted to the gear tray
- The microwave sensor above is also available to be purchased as a separate item for plug-in installation on the gear tray, as listed opposite



## KEY FEATURES

**QUICK TO INSTALL** – multiple features to shorten installation time

**COST EFFECTIVE** – 1st fix with less skilled labour. 2nd fix is easy with movable terminal block

**EFFICIENT** – up to 169 l/lm/c.W

**MADE TO LAST** – 100,000 hours rated driver & 7-year warranty

## SMART WIRELESS CONTROLS



**CASAMBI**

GREENLAND PRO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



# NEW GREENLAND PRO

## Standard, including manual test emergency (M3L)

	ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	EMERGENCY	CRI	CCT (K)
	LENGTH (mm)	WIDTH (mm)							
	4000K								
	NGN2/8-14/840	600	100	9 / 11 / 13 / 15	1256 / 1558 / 1838 / 2127	140 / 140 / 140 / 139		>80	4000
	NGN4/23-40/840	1200	100	24 / 30 / 36 / 42	4064 / 5022 / 6025 / 6925	168 / 169 / 167 / 165		>80	4000
	NGN4/23-40/M3L/840	1200	100	24 / 30 / 36 / 42	4064 / 5022 / 6025 / 6925	168 / 169 / 167 / 165	M3L	>80	4000
	NGN5/34-60/840	1500	100	36 / 45 / 54 / 63	6021 / 7463 / 8906 / 10367	167 / 166 / 164 / 164		>80	4000
	NGN5/34-60/M3L/840	1500	100	36 / 45 / 54 / 63	6021 / 7463 / 8906 / 10367	167 / 166 / 164 / 164	M3L	>80	4000
	NGN6/52-74/840	1800	100	53 / 61 / 69 / 77	8726 / 9937 / 11092 / 12244	165 / 163 / 162 / 160		>80	4000
	NGN6/52-74/M3L/840	1800	100	53 / 61 / 69 / 77	8726 / 9937 / 11092 / 12244	165 / 163 / 162 / 160	M3L	>80	4000

## Digital Dimming (DD) including manual test emergency (M3L)

	ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (l./m/c.W)	EMERGENCY	CRI	CCT (K)
		LENGTH (mm)	WIDTH (mm)						
	4000K								
	NGN4/23-40/DD/840	1200	100	24 / 30 / 36 / 42	4064 / 5022 / 6025 / 6925	168 / 169 / 167 / 165		>80	4000
	NGN4/23-40/DD/M3L/840	1200	100	24 / 30 / 36 / 42	4064 / 5022 / 6025 / 6925	168 / 169 / 167 / 165	M3L	>80	4000
	NGN5/34-60/DD/840	1500	100	36 / 45 / 54 / 63	6021 / 7463 / 8906 / 10367	167 / 166 / 164 / 164		>80	4000
	NGN5/34-60/DD/M3L/840	1500	100	36 / 45 / 54 / 63	6021 / 7463 / 8906 / 10367	167 / 166 / 164 / 164	M3L	>80	4000
	NGN6/52-74/DD/840	1800	100	53 / 61 / 69 / 77	8726 / 9937 / 11092 / 12244	165 / 163 / 162 / 160		>80	4000
	NGN6/52-74/DD/M3L/840	1800	100	53 / 61 / 69 / 77	8726 / 9937 / 11092 / 12244	165 / 163 / 162 / 160	M3L	>80	4000

## Standard CCT Selectable (2700K, 4000K & 6000K) including manual test emergency (M3L)

	ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	EMERGENCY	CRI	CCT (K)
		LENGTH (mm)	WIDTH (mm)						
	4000K								
	NGN2/6-12/827-40-60	600	100	6 / 8 / 10 / 12	840 / 1120 / 1400 / 1668	140 / 140 / 140 / 139		>80	2700 / 4000 / 6000
	NGN4/20-38/827-40-60	1200	100	20 / 26 / 32 / 38	3360 / 4394 / 5344 / 6270	168 / 169 / 167 / 165		>80	2700 / 4000 / 6000
	NGN4/20-38/M3L/827-40-60	1200	100	20 / 26 / 32 / 38	3360 / 4394 / 5344 / 6270	168 / 169 / 167 / 165	M3L	>80	2700 / 4000 / 6000
	NGN5/27-48/827-40-60	1500	100	27 / 34 / 41 / 48	4509 / 5644 / 6724 / 7872	167 / 166 / 164 / 164		>80	2700 / 4000 / 6000
	NGN5/27-48/M3L/827-40-60	1500	100	27 / 34 / 41 / 48	4509 / 5644 / 6724 / 7872	167 / 166 / 164 / 164	M3L	>80	2700 / 4000 / 6000
	NGN6/34-60/827-40-60	1800	100	34 / 42 / 51 / 60	5610 / 6846 / 8262 / 9600	165 / 163 / 162 / 160		>80	2700 / 4000 / 6000
	NGN6/34-60/M3L/827-40-60	1800	100	34 / 42 / 51 / 60	5610 / 6846 / 8262 / 9600	165 / 163 / 162 / 160	M3L	>80	2700 / 4000 / 6000

## Digital Dimming (DD) CCT Selectable (2700K, 4000K & 6000K) incl. manual test emergency (M3L)

	ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	EMERGENCY	CRI	CCT (K)
		LENGTH (mm)	WIDTH (mm)						
	4000K								
	NGN4/20-38/DD/827-40-60	1200	100	20 / 26 / 32 / 38	3360 / 4394 / 5344 / 6270	168 / 169 / 167 / 165		>80	2700 / 4000 / 6000
	NGN4/20-38/DD/M3L/827-40-60	1200	100	20 / 26 / 32 / 38	3360 / 4394 / 5344 / 6270	168 / 169 / 167 / 165	M3L	>80	2700 / 4000 / 6000
	NGN5/27-48/DD/827-40-60	1500	100	27 / 34 / 41 / 48	4509 / 5644 / 6724 / 7872	167 / 166 / 164 / 164		>80	2700 / 4000 / 6000
	NGN5/27-48/DD/M3L/827-40-60	1500	100	27 / 34 / 41 / 48	4509 / 5644 / 6724 / 7872	167 / 166 / 164 / 164	M3L	>80	2700 / 4000 / 6000
	NGN6/34-60/DD/827-40-60	1800	100	34 / 42 / 51 / 60	5610 / 6846 / 8262 / 9600	165 / 163 / 162 / 160		>80	2700 / 4000 / 6000
	NGN6/34-60/DD/M3L/827-40-60	1800	100	34 / 42 / 51 / 60	5610 / 6846 / 8262 / 9600	165 / 163 / 162 / 160	M3L	>80	2700 / 4000 / 6000

## Emergency conversion packs

ORDER CODE	DESCRIPTION	POWER
N/LINEAR/M3L/CONV-PACK	LiFe Linear M3L Emergency Conversion Pack	2
N/LINEAR/STM3L/CONV-PACK	LiFe Linear STM3L Emergency Conversion Pack	2

## MW Sensor

ORDER CODE	DESCRIPTION
N/MW/MC098S-991	Plug & Play MW Sensor for NGN PRO & NCB

# GREENLAND CLASSIC

Premium grade IP66  
non-corrosive fitting



## APPLICATIONS

- Factories, garages and workshops
- Food preparation areas
- Non-emergency versions rated to -20°C
- Emergency versions rated to 0°C

## SPECIFICATION

- Polycarbonate base
- Opal polycarbonate diffuser
- Grade 304 stainless steel clips
- Reinforced drill points in base for direct surface fixing. Also suitable for surface mounting on spring clips and suspension on chain or conduit

## OPTIONS

### Length

- 2', 4', 5' and 6' lengths available

### Standard and high output

- All variants available in standard (1x row of LEDs) and high output (2x rows of LEDs) variants

## Colour temperature

- 4000K available in all lengths
- 5000K available in 4' and 5'

## Emergency – all maintained 3 hours with (LiFePO<sub>4</sub>) lithium batteries

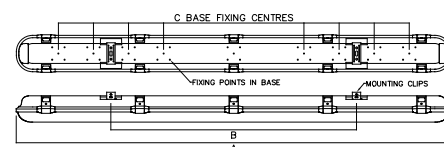
- M3L: Manual test
- STM3L: Self-test
- HSDAM3L: HubSense addressable test
- DAM3L: DALI addressable test

## Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

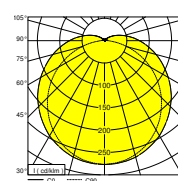
## Sensor

- MW: Microwave sensor fitted to the gear tray
- PIR: Passive infra-red sensor available using a batten mount sensor, to be ordered separately for fitting on-site. See page ??

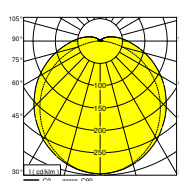


SIZE	A	B	C	SINGLE	TWIN	MOUNTING CLIPS
1X2/2X2	640	370	440	50	50	88
1X4/2X4	1240	800	600/800/1000	50	50	107
1X5/2X5	1540	940	600/800/1000/1200	50	50	107
1X6/2X6	1840	1280	800/1000/1200/1400/1600	50	50	107

STANDARD



HIGH-OUTPUT



## KEY FEATURES

**VERSATILE** – Wide range of lengths, wattages and other options make GREENLAND ORIGINAL suitable for many projects

**EFFICIENT** – Up to 144 luminaire lumens per circuit watt

**BUILT TO LAST** – Robust polycarbonate body with grade 304 stainless clips

## SMART WIRELESS CONTROLS



CASAMBI

GREENLAND can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# GREENLAND CLASSIC

## Standard and with manual test emergency (M3L)

ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	DIMMING	SENSOR	EMERGENCY	CRI	CCT (K)
	LENGTH (mm)	WIDTH (mm)								
4000K										
NGN1X2/840	640	88	10	1140	120				>80	4000
NGN1X4/840	1240	88	28	3400	121				>80	4000
NGN1X4/M3L/840	1240	88	28	3400	121			M3L	>80	4000
NGN1X5/840	1540	88	36	5012	139				>80	4000
NGN1X5/M3L/840	1540	88	36	5012	139			M3L	>80	4000
NGN1X6/840	1840	88	48	5900	122				>80	4000
NGN1X6/M3L/840	1840	88	48	5900	122			M3L	>80	4000
NGN2X2/840	640	107	17	2128	123				>80	4000
NGN2X2/M3L/840	640	107	17	2128	123			M3L	>80	4000
NGN2X4/840	1240	107	45	6370	140				>80	4000
NGN2X4/M3L/840	1240	107	45	6370	140			M3L	>80	4000
NGN2X5/840	1540	107	73	9865	135				>80	4000
NGN2X5/M3L/840	1540	107	73	9865	135			M3L	>80	4000
NGN2X6/840	1840	107	97	11652	121				>80	4000
NGN2X6/M3L/840	1840	107	97	11652	121			M3L	>80	4000
5000K										
NGN1X4/850	1240	88	28	3485	124				>80	5000
NGN1X4/M3L/850	1240	88	28	3485	124			M3L	>80	5000
NGN1X5/850	1540	88	36	5138	143				>80	5000
NGN1X5/M3L/850	1540	88	36	5138	143			M3L	>80	5000
NGN2X4/850	1240	107	45	6530	144				>80	5000
NGN2X4/M3L/850	1240	107	45	6530	144			M3L	>80	5000
NGN2X5/850	1540	107	73	10112	139				>80	5000
NGN2X5/M3L/850	1540	107	73	10112	139			M3L	>80	5000

## Microwave sensor (MW) and MW with manual test emergency (M3L)

	ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.w)	DIMMING	SENSOR	EMERGENCY	CRI	CCT (K)
		LENGTH (mm)	WIDTH (mm)								
LED LIGHTS	4000K										
	NGN1X4/MW/840	1240	88	28	3400	121		Microwave		>80	4000
	NGN1X4/MW/M3L/840	1240	88	28	3400	121		Microwave	M3L	>80	4000
	NGN1X5/MW/840	1540	88	36	5012	139		Microwave		>80	4000
	NGN1X5/MW/M3L/840	1540	88	36	5012	139		Microwave	M3L	>80	4000
	NGN1X6/MW/840	1840	88	48	5900	122		Microwave		>80	4000
	NGN1X6/MW/M3L/840	1840	88	48	5900	122		Microwave	M3L	>80	4000
	NGN2X4/MW/840	1240	107	45	6370	140		Microwave		>80	4000
	NGN2X4/MW/M3L/840	1240	107	45	6370	140		Microwave	M3L	>80	4000
	NGN2X5/MW/840	1540	107	73	9865	135		Microwave		>80	4000
	NGN2X5/MW/M3L/840	1540	107	73	9865	135		Microwave	M3L	>80	4000
	NGN2X6/MW/840	1840	107	97	11652	121		Microwave		>80	4000
	NGN2X6/MW/M3L/840	1840	107	97	11652	121		Microwave	M3L	>80	4000
	5000K										
	NGN1X4/MW/850	1240	88	28	3485	124		Microwave		>80	5000
	NGN1X4/MW/M3L/850	1240	88	28	3485	124		Microwave	M3L	>80	5000
	NGN1X5/MW/850	1540	88	36	5138	143		Microwave		>80	5000
	NGN1X5/MW/M3L/850	1540	88	36	5138	143		Microwave	M3L	>80	5000
	NGN2X4/MW/850	1240	107	45	6530	144		Microwave		>80	5000
	NGN2X4/MW/M3L/850	1240	107	45	6530	144		Microwave	M3L	>80	5000
	NGN2X5/MW/850	1540	107	73	10112	139		Microwave		>80	5000
	NGN2X5/MW/M3L/850	1540	107	73	10112	139		Microwave	M3L	>80	5000



# COLUMBUS

Power-selectable IP65  
non-corrosive fitting with a  
wide range of wattages



MICRO-WAVE SENSOR AVAILABLE

## APPLICATIONS

- Factories, garages and workshops
- Food preparation areas
- Non-emergency versions rated to -20°C
- Emergency versions (with emergency conversion pack) rated to 0°C

## SPECIFICATION

- Polycarbonate base and diffuser
- LEDs attached to diffuser so removing the diffuser exposes the terminal block
- Terminal block attached to base to make wiring easier
- Grade 201 stainless steel clips
- Reinforced drill points in base for direct surface fixing. Also suitable for surface mounting on spring clips and suspension on chain or conduit

## OPTIONS

### Lengths and wattages

- 4'. 4-way power selectable
- 5'. 4-way power selectable
- 6'. Standard output, 4-way power selectable.
- 6'. High output, 8-way power selectable

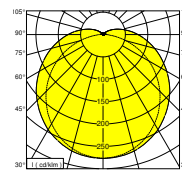
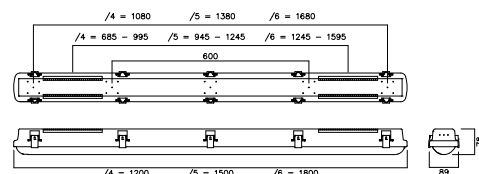
### Emergency conversion packs – All maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- M3L: Manual test
- STM3L: Self-test

### Sensor

- Micro-wave occupancy sensor available with adjustable switch-on lux level, hold time and sensitivity:

This can be supplied ready fitted (suffix MW), or as a plug-in accessory for adding on site as required, as listed below



ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	CRI	CCT (K)
	LENGTH (mm)	WIDTH (mm)					
NCB/4/15-26/840	1200	89	15 / 19 / 22 / 26	2090 / 2545 / 2946 / 3567	139 / 136 / 132 / 135	>80	4000
NCB/4/15-26/M3L/840	1200	89	15 / 19 / 22 / 26	2090 / 2545 / 2946 / 3567	139 / 136 / 132 / 135	>80	4000
NCB/4/22-40/840	1200	89	22 / 28 / 34 / 40	3429 / 4204 / 4885 / 5557	154 / 147 / 145 / 141	>80	4000
NCB/4/22-40/M3L/840	1200	89	22 / 28 / 34 / 40	3429 / 4204 / 4885 / 5557	154 / 147 / 145 / 141	>80	4000
NCB/5/20-36/840	1500	89	20 / 25 / 30 / 34	2739 / 3329 / 3859 / 4755	139 / 133 / 128 / 139	>80	4000
NCB/5/20-36/M3L/840	1500	89	20 / 25 / 30 / 34	2739 / 3329 / 3859 / 4755	139 / 133 / 128 / 139	>80	4000
NCB/5/30-52/840	1500	89	30 / 38 / 45 / 52	4397 / 5260 / 6198 / 7945	143 / 140 / 137 / 149	>80	4000
NCB/5/30-52/M3L/840	1500	89	30 / 38 / 45 / 52	4397 / 5260 / 6198 / 7945	143 / 140 / 137 / 149	>80	4000
NCB/6/27-47/840	1800	89	27 / 33 / 40 / 47	3695 / 4398 / 5154 / 6281	137 / 133 / 129 / 138	>80	4000
NCB/6/27-47/M3L/840	1800	89	27 / 33 / 40 / 47	3695 / 4398 / 5154 / 6281	137 / 133 / 129 / 138	>80	4000
NCB/6/25-71/840	1800	89	25 / 31 / 38 / 44 / 51 / 57 / 64 / 71	4035 / 4705 / 5679 / 6502 / 7394 / 8070 / 8844 / 9566	162 / 153 / 151 / 148 / 145 / 142 / 138 / 135	>80	4000
NCB/6/25-71/M3L/840	1800	89	25 / 31 / 38 / 44 / 51 / 57 / 64 / 71	4035 / 4705 / 5679 / 6502 / 7394 / 8070 / 8844 / 9566	162 / 153 / 151 / 148 / 145 / 142 / 138 / 135	>80	4000

## Emergency conversion packs

ORDER CODE	DESCRIPTION	POWER
N/LINEAR/M3L/CONV-PACK	LiFe Linear M3L Emergency Conversion Pack	2
N/LINEAR/STM3L/CONV-PACK	LiFe Linear STM3L Emergency Conversion Pack	2

## MW Sensor

ORDER CODE	DESCRIPTION
N/MW/MC098S-991	Plug & Play MW Sensor for NGN PRO & NCB

# CLEVELAND

IP65 non-corrosive fitting



## APPLICATIONS

- Factories, garages and workshops
- Food preparation areas
- Non-emergency versions rated to -20°C
- Emergency versions rated to 0°C

## SPECIFICATION

- Polycarbonate base
- Opal polycarbonate diffuser
- Grade 201 stainless steel clips
- Reinforced drill points in base for direct surface fixing. Also suitable for surface mounting on spring clips and suspension on chain or conduit

## OPTIONS

### Length

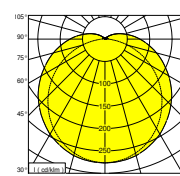
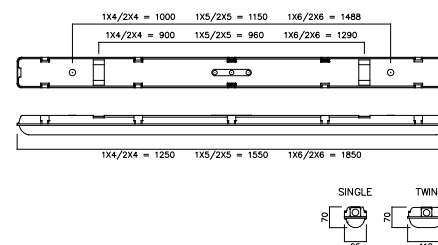
- 4', 5' and 6' lengths available

### Standard and high output

- All variants available in standard (1x row of LEDs) and high output (2x rows of LEDs) versions

### Emergency

- M3L: Manual test, maintained 3 hours with lithium (LiFePO4) batteries



ORDER CODE	DIMENSIONS		POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	EMERGENCY	CRI	CCT (K)
	LENGTH (mm)	WIDTH (mm)						
NCV1X4/840	1250	65	24	2915	125		>80	4000
NCV1X4/M3L/840	1250	65	24	2915	125	M3L	>80	4000
NCV2X4/840	1250	110	40	4845	126		>80	4000
NCV2X4/M3L/840	1250	110	40	4845	126	M3L	>80	4000
NCV1X5/840	1550	65	35	3935	110		>80	4000
NCV1X5/M3L/840	1550	65	35	3935	110	M3L	>80	4000
NCV2X5/840	1550	110	57	6615	116		>80	4000
NCV2X5/M3L/840	1550	110	57	6615	116	M3L	>80	4000
NCV1X6/840	1850	65	46	5380	114		>80	4000
NCV1X6/M3L/840	1850	65	46	5380	114	M3L	>80	4000
NCV2X6/840	1850	110	74	9194	115		>80	4000
NCV2X6/M3L/840	1850	110	74	9194	115	M3L	>80	4000

# OREGON

Feature-rich high-bay, with sensor, lens (light distribution) and light output options, giving up to 184 l.lm/c.W



AVAILABLE WITH OPTIONAL PIR SENSOR



AVAILABLE WITH OPTIONAL WIRE GUARD TO ACHIEVE IK10 RATING

## APPLICATIONS

- Large open indoor areas such as factories, workshops, warehouses and school halls
- Mounting heights of 5m+

## SPECIFICATION

- Steel body, painted white (RAL9016)
- LEDs individually lensed on metal core circuit board
- Aluminium extruded heat sink
- For suspension from chain, rods, lighting trunking and on BESA fixings
- Philips driver and LED modules

## OPTIONS

### Light output

- Choice of 4 nominal output levels: 12klm, 18klm, 24klm, 32klm

**Light distribution.** Supplied with a choice of 2 lenses:

- 90° - for general purpose use
- High rack (HR) for narrow aisles and / or greater mounting heights
- Philips driver and LEDs

## Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function - dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

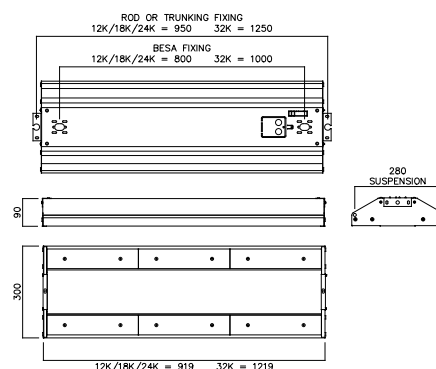
## Emergency - all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- M3L: Manual test
- STM3L: Self-test
- CSDAM3L - Casambi addressable test
- HSDAM3L: HubSense addressable test
- DAM3L: DALI addressable test

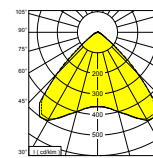
## Sensor

- PIR: Passive infra-red occupancy sensor fitted for on/off control
- PIRD: PIR occupancy sensor with dimming for daylight harvesting

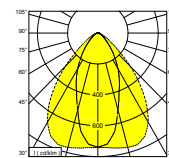
**Wire guard.** To be ordered as a separate item; increases the IK rating from IK09 to IK10



90° LENS



HR LENS



## KEY FEATURES

**EFFICIENT** - Up to 184 luminaire lumens per circuit watt

**OPTIMISED DISTRIBUTION** - Choice of lenses optimises light distribution

**FLEXIBLE** - Able to be surface mounted or suspended on rods, chains or wires

## SMART WIRELESS CONTROLS



CASAMBI

OREGON can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details - [technical@nvcuk.com](mailto:technical@nvcuk.com)





OREGON has all the features needed for lighting large indoor spaces:

- **Up to 184 l.lm/c.W.** - High efficiency and the unlimited hours 7-year warranty keep running costs to a minimum.
- **Multiple control options** - Features like daylight harvesting and dim-to-10% are great for saving energy, especially in spaces with intermittent occupancy.
- **High-rack light distribution** - The HR lenses put light where it's needed in a narrow aisle installation.
- **Flexible commissioning** - The sensor parameters can be adjusted with the commissioning handset. See page ?? for ordering details.

To commission an OREGON with PIR or PIRD you will need a commissioning handset. See over for ordering details.





# OREGON

High-efficiency, including manual test emergency (M3L)

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	OPTICAL DIRECTION	EMERGENCY	CRI	CCT (K)
<b>90</b>							
NOR/HE/12K/90/840	72	12230	170	90°		>80	4000
NOR/HE/12K/90/M3L/840	72	12230	170	90°	M3L	>80	4000
NOR/HE/18K/90/840	112	17797	159	90°		>80	4000
NOR/HE/18K/90/M3L/840	112	17797	159	90°	M3L	>80	4000
NOR/HE/24K/90/840	151	22945	152	90°		>80	4000
NOR/HE/24K/90/M3L/840	151	22945	152	90°	M3L	>80	4000
NOR/HE/32K/90/840	217	32894	151	90°		>80	4000
NOR/HE/32K/90/M3L/840	217	32894	151	90°	M3L	>80	4000
<b>HIGH-RACK</b>							
NOR/HE/12K/HR/840	72	13302	184	High Rack		>80	4000
NOR/HE/12K/HR/M3L/840	72	13302	184	High Rack	M3L	>80	4000
NOR/HE/18K/HR/840	114	19630	173	High Rack		>80	4000
NOR/HE/18K/HR/M3L/840	114	19630	173	High Rack	M3L	>80	4000
NOR/HE/24K/HR/840	151	24140	160	High Rack		>80	4000
NOR/HE/24K/HR/M3L/840	151	24140	160	High Rack	M3L	>80	4000
NOR/HE/32K/HR/840	200	31744	159	High Rack		>80	4000
NOR/HE/32K/HR/M3L/840	200	31744	159	High Rack	M3L	>80	4000

## Accessories

ORDER CODE	DESCRIPTION
NOR/V2/WG	Oregon V2 Wire Guard with clip
NOR/V2/WG/32K	Oregon V2 Wire Guard for 32K with clip
NHS/QUICKSETPRO	Commissioning handset for OREGON PIR/PIRD





# TEMPE PRO NEW

High output, heavy duty, power selectable fitting for trunking, surface or suspended installation with a choice of optics



## APPLICATIONS

- Industrial premises with <5m mounting height
- Retail and industrial racking aisles
- For trunking, surface or suspended installation

## SPECIFICATION

- Heavy duty, folded and welded steel base with terminal blocks, driver and through-wiring
- Steel LED tray with spring-loaded and magnetic catches, hinged to base
- Base and LED tray painted white, (RAL9003)
- LEDs, individually lensed, mounted on metal core PCB
- 2x grommeted cable entry points at each end of the base
- Through-wired with 2.5mm<sup>2</sup> conductors. Piano-key terminal blocks at each end
  - **Fixed output – 6-pole** (L, N, E, black, grey, white)
  - **DALI – 7-pole** (L, N, E, black, grey, DA red, DA white)

## OPTIONS

### Size and wattage

- 4' (1200mm), 40-55W, x4 power selectable
- 5' (1500mm), 40-70W, x4 power selectable
- 80-120W, x 10 power selectable

### Light distribution

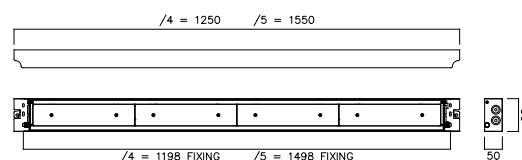
Available with a choice of two beam angles, standard (75°) and high-rack (HR, 48°), as shown

### Emergency – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

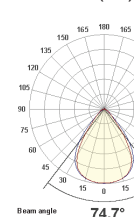
- M3L: Manual test
- STM3L: Self-test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test
- DAM3L: DALI addressable test

### Dimming

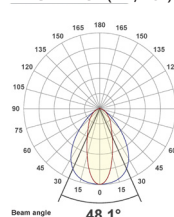
- DD: Digital Dimming – DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



STANDARD (75°)



HIGH-RACK (HR, 48°)



## KEY FEATURES

**CHOICE OF LENSES** – Giving standard or high-rack light distribution

**POWER SELECTABLE** – Wide range of wattages, from 40W to 120W

**THROUGH-WIRED** – Cost-effective and quick to install

## SMART WIRELESS CONTROLS



**CASAMBI**

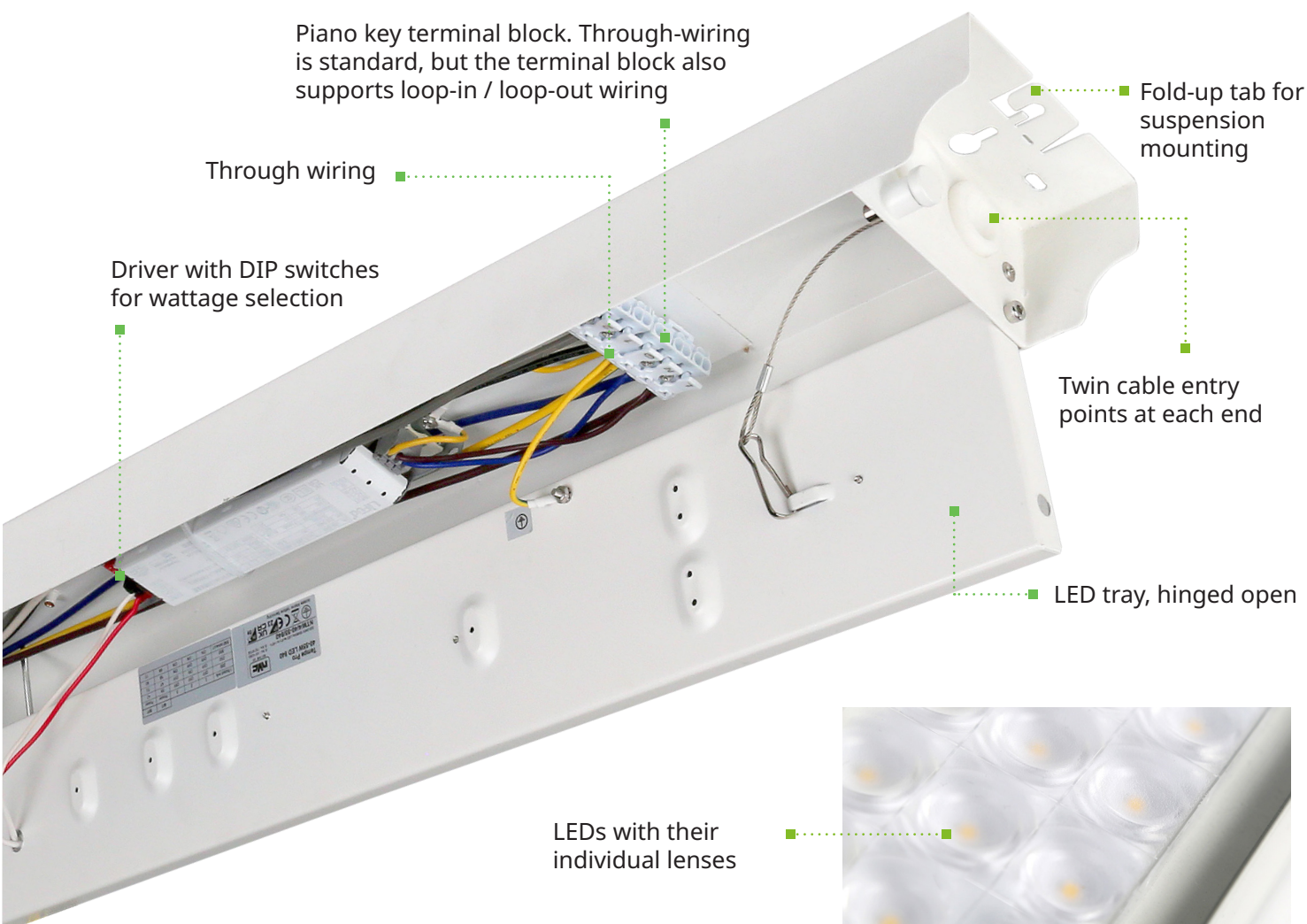
TEMPE PRO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

## NEW TEMPE PRO

TEMPE PRO has the output of a low-bay or high-bay fitting, but in a linear format. Consider it for racking aisles and assembly workshops needing high light levels and uniformity.



### Standard

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.w)	BEAM ANGLE	CRI	CCT (K)
NTM/4/40-55/840	39 / 47 / 58 / 68	6634 / 8084 / 9733 / 11234	171 / 171 / 168 / 166	75°	>80	4000
NTM/5/40-70/840	42 / 51 / 60 / 71	7606 / 9081 / 10588 / 12289	178 / 178 / 176 / 174	75°	>80	4000
NTM/5/80-120/840	80 / 86 / 92 / 100 / 106 / 119	8457 - 19698	Up to 183	75°	>80	4000
NTM/4/40-55/HR/840	39 / 47 / 58 / 68	7287 / 8980 / 10549 / 12186	183 / 183 / 181 / 179	High Rack - 48°	>80	4000
NTM/5/40-70/HR/840	42 / 51 / 60 / 71	8328 / 9943 / 11593 / 13456	198 / 194 / 193 / 189	High Rack - 48°	>80	4000
NTM/5/80-120/HR/840	80 / 86 / 92 / 100 / 106 / 119	9260 - 21569	Up to 201	High Rack - 48°	>80	4000

### Digital Dimming (DD)

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.w)	BEAM ANGLE	CRI	CCT (K)
NTM/4/40-55/DD/840	39 / 47 / 58 / 68	6634 / 8084 / 9733 / 11234	171 / 171 / 168 / 166	75°	>80	4000
NTM/5/40-70/DD/840	42 / 51 / 60 / 71	7606 / 9081 / 10588 / 12289	178 / 178 / 176 / 174	75°	>80	4000
NTM/5/80-120/DD/840	80 / 86 / 92 / 100 / 106 / 119	8457 - 19698	Up to 183	75°	>80	4000
NTM/4/40-55/DD/HR/840	39 / 47 / 58 / 68	7287 / 8980 / 10549 / 12186	183 / 183 / 181 / 179	High Rack - 48°	>80	4000
NTM/5/40-70/DD/HR/840	42 / 51 / 60 / 71	8328 / 9943 / 11593 / 13456	198 / 194 / 193 / 189	High Rack - 48°	>80	4000
NTM/5/80-120/DD/HR/840	80 / 86 / 92 / 100 / 106 / 119	9260 - 21569	Up to 201	High Rack - 48°	>80	4000

# SATURN

Power and CCT selectable high bay.  
Up to 193 l.lm/c.W, with sensor,  
dimming and daylight harvesting  
options



AVAILABLE WITH OPTIONAL WIRE GUARD  
TO ACHIEVE IK10 RATING

## APPLICATIONS

- Factories, workshops and warehouses
- Large retail outlets
- Public areas such as airports and railway stations
- Mounting heights of 5m+. Ta 0-45°C

## SPECIFICATION

- Die-cast aluminium body and steel gear tray housing, all painted white (RAL9016)
- LEDs, individually lensed, on MCPCB
- Power selectable. 100W, 150W or 200W
- CCT selectable. 4000K, 5000K or 6500K
- Socket for an optional plug-in sensor
- Driver with 0-10V input (use optional), compatible with the sensors listed
- For suspension on V-hooks or on surface brackets ordered separately
- Pre-wired with 2m of VDE approved H05RN-F 1.0mm<sup>2</sup> flex, with IP54 rated cable gland

## OPTIONS

**Light distribution.** Supplied with a choice of 2 lenses:

- 90° - for general purpose use
- High rack (HR) for narrow aisles and / or greater mounting heights

**Plug-in sensors** – available to be ordered as separate items. They have a 0-10V output, compatible with the driver fitted as standard. Two sensors are available:

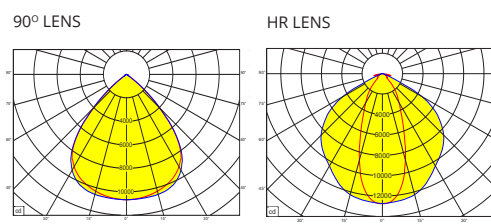
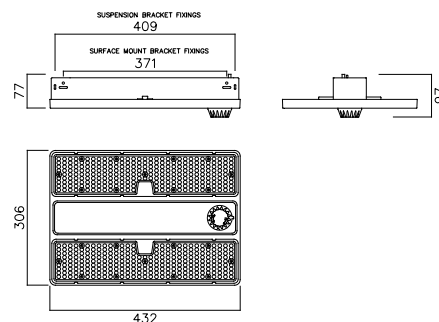
- Passive infra-red (PIR)
- Microwave (MW)
- A programming handset is required to commission the sensors, listed opposite

**Emergency** – maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- M3L: Manual test
- STM3L: Self-test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

## Dimming

- DA: DALI dimming
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



## KEY FEATURES

**EFFICIENT** – Up to 193 luminaire lumens per circuit watt

**WATTAGE SELECTABLE** – Choice of 100W, 150W & 200W outputs

**CCT SELECTABLE** – Choice of 4000K, 5000K & 6500K via slider switch

**PLUG & PLAY SENSORS** – Choice of Passive Infrared (PIR) or Microwave (MW) sensors

## SMART WIRELESS CONTROLS



SATURN can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



# SATURN

An alternative to a traditional high-bay. It performs a very similar function to our JUPITER PRO, but in a rectangular, white painted format.



Microwave



PIR

**Sensors – easy to fit....** The optional microwave or PIR sensors plug-in to the socket – no wiring required. As standard these are dimming sensors, so they can be commissioned to provide daylight harvesting and similar functions. With mounting heights up to 12m (PIR) and 15m (MW), these sensors are designed for large spaces.



**SATURN** is supplied as standard with V hooks for suspension. Surface mounting brackets, also shown here, are available to be ordered separately if required..



**Adaptable -** Can be commissioned to run at 100W, 150W or 200W, and at 4000K, 5000K or 6500K

## Standard, including manual test emergency (M3L)

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	BEAM ANGLE	CRI	CCT (K)
NSA/100-150-200/90D/840-50-65	100 / 150 / 200	17247 / 25483 / 33352	182 / 180 / 175	90°	>80	4000 / 5000 / 6500
NSA/100-150-200/90D/M3L/840-50-65	100 / 150 / 200	17247 / 25483 / 33352	182 / 180 / 175	90°	>80	4000 / 5000 / 6500
NSA/100-150-200/HR/840-50-65	100 / 150 / 200	18171 / 25203 / 33424	193 / 181 / 175	High Rack	>80	4000 / 5000 / 6500
NSA/100-150-200/HR/M3L/840-50-65	100 / 150 / 200	18171 / 25203 / 33424	193 / 181 / 175	High Rack	>80	4000 / 5000 / 6500

## DALI Dimmable

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	BEAM ANGLE	CRI	CCT (K)
NSA/100-200/90D/DA/840-65	100 / 150 / 200	17247 / 25483 / 33352	182 / 180 / 175	90°	>80	4000 / 5000 / 6500
NSA/100-200/HR/DA/840-65	100 / 150 / 200	18171 / 25203 / 33424	193 / 181 / 175	High Rack	>80	4000 / 5000 / 6500

## Accessories

ORDER CODE	DESCRIPTION
NSA/ZHAGA/MW/SENSOR	Saturn Zhaga MW Sensor
NSA/ZHAGA/PIR/SENSOR	Saturn Zhaga PIR Sensor
N/HB/PIR-MW/PROG/HS	High Bay PIR & MW Sensor Programming Handset
NSA/SURF-MNT/BRKTS	Saturn Surface Mount Brackets
NSA/WG	Saturn Two Part Wire Guard



**Easy to commission.** If you are fitting a sensor, it will need to be commissioned. This infrared handset makes the process simple and convenient.

# KELSO

A slim and compact low-bay



## APPLICATIONS

- Factories, workshops and warehouses
- Mounting heights up to 7m

## SPECIFICATION

- Steel body, painted white (RAL9003)
- LEDs under UV stable PC lens panel giving 110° beam angle
- Aluminium extruded heat sink
- For suspended or surface installation
- Cable entry on rear or via 20mm knock-outs on end

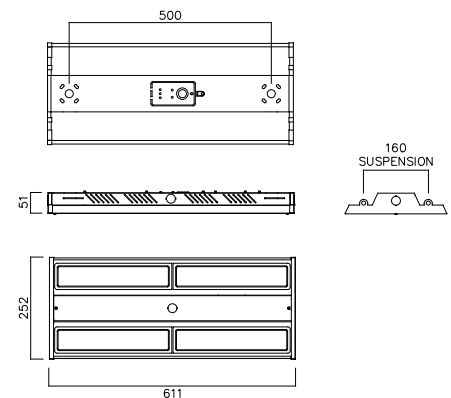
## OPTIONS

### Wattage

- Choice of 2 wattages, 100W & 135W

### Emergency

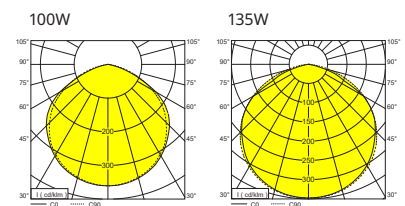
- M3L: Manual test, maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries



TOP FLAP ACCESS FOR EASY LOOP-IN / LOOP-OUT WIRING



VERSATILE MOUNTING OPTIONS INCLUDING BESA, CONDUIT, BRACKET, SUSPENDED AND CEILING MOUNTING



ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	EMERGENCY	CRI	CCT (K)
	LENGTH	WIDTH						
NKE100/840	611	252	100	15068	151		>80	4000
NKE100/M3L/840	611	252	100	15068	151	M3L	>80	4000
NKE135/840	611	252	135	21215	157		>80	4000
NKE135/M3L/840	611	252	135	21215	157	M3L	>80	4000







# JUPITER PRO

A highly efficient IP65-rated high-bay with dimming and sensor options and adjustable beam angle

Adjustable lens to change beam angle

70°  
90°  
100°



## APPLICATIONS

- Factories, workshops and warehouses
- Public areas such as airports and railway stations
- Mounting heights of 5m+

## SPECIFICATION

- Die-cast aluminium body painted black
- Adjustable polycarbonate lens. Rotating the lens gives a choice of 70°, 90° or 100° beam angles
- Power selectable. DIP switches allow selection of 90W, 150W or 200W
- Socket for a plug-in sensor (PIR or microwave). The sensor is optional and is purchased separately
- Driver with 1-10V input (use optional), compatible with the sensors listed. If no sensor is fitted the driver operates in fixed-output mode
- For suspended installation. Suspension eyelet supplied

## OPTIONS

**Emergency conversion packs** – two plug-in emergency conversion packs, each with its own light source and lithium (LiFePO4) batteries, are available as listed opposite. Both are non-maintained 3 hours, with a choice of manual test (NM3L) and self-test (STNM3L).

**Plug-in sensors** - available to be ordered as separate items. They have a 1-10V output, compatible with the driver fitted as standard. Two sensors are available, and a programming handset:

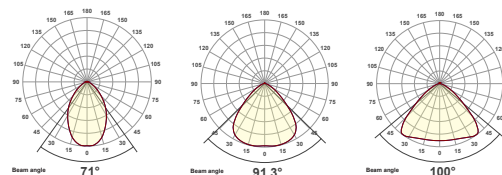
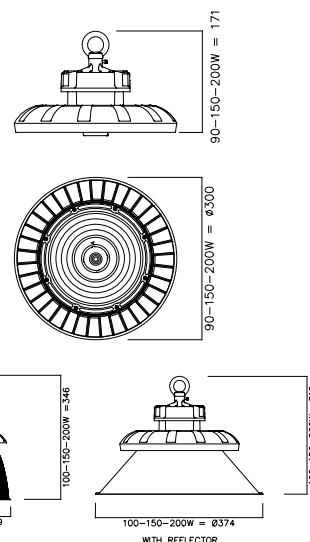
- **Passive infrared (PIR)**, up to 12m mounting height
- **Microwave (MW)**, up to 15m mounting height
- A programming handset is required to commission the sensors, listed opposite

**Reflectors, refractors and brackets** - available to be ordered as separate items:

- Polycarbonate refractor
- Aluminium reflector
- Stirrup mounting bracket

## Dimming

- DA: DALI dimming
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control



## KEY FEATURES

**EFFICIENT** – Up to 174 luminaire lumens per circuit watt

**WATTAGE SELECTABLE** – Choice of 100W, 150W & 200W

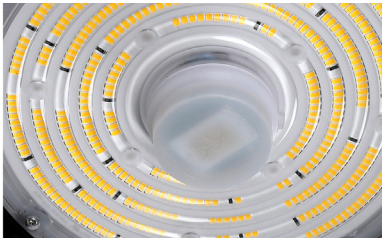
**PLUG & PLAY SENSORS** – Choice of Passive Infrared (PIR) or Microwave (MW) sensors

**ADJUSTABLE BEAM ANGLE** – Rotate the lens to deliver 70°, 90° or 100° beam angles

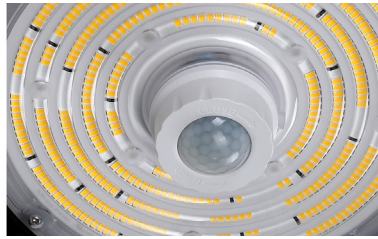
ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l./lm/c.w)	DIMMING	CRI	CCT (K)
NJP/PRO/90-150-200/840	300	92 / 149 / 195	16271 / 25805 / 33597	178 / 174 / 174	1-10V	>80	4000

# JUPITER PRO

## Sensors



MICROWAVE SENSOR



PIR SENSOR

Ordered separately as listed. They attach with a twist-lock action that maintains JUPITER PRO's IP65 rating.

ORDER CODE	DESCRIPTION
NJP/PRO/MW/SENSOR	Jupiter Pro Microwave Sensor
NJP/PRO/PIR/SENSOR	Jupiter Pro PIR Sensor
N/HB/PIR-MW/PROG/HS	High Bay PIR & MW Sensor Programming Handset

## FULLY PROGRAMMABLE VIA HANDSET

### DETECTION RANGE -

Detection range, standby dimming level and hold time can all be adjusted via the handset, listed below.



## Accessories



### Refractors

Made of clear polycarbonate, the refractor reduces the beam angle very slightly, but substantially reduces the risk of glare. The refractor is generally most useful for reducing glare at lower mounting heights.



### Reflectors

Made of aluminium, the reflector reduces the beam angle, and substantially reduces the risk of glare. The reflector is mostly used when JUPITER is installed at mounting heights above about 10m.



### Stirrup Mount Bracket

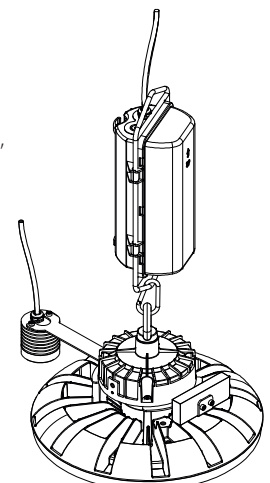
JUPITER PRO is supplied complete with a suspension eyelet, but for mounting direct to a surface a stirrup mounting bracket is available.

ORDER CODE	DESCRIPTION
NJP/REFL/100-150-200	Jupiter Pro ALI Reflector For 100W/150W/200W
NJP/REFR/100-150-200	Jupiter Pro PC Refractor For 100W/150W/220W
NJP/PRO/SMB/90-150-200	Jupiter Pro 90W/150W/200W Stirrup Mount Bracket Kit

## Emergency Conversion Packs



Plug & play 3 hr non-maintained emergency conversion packs for use with JUPITER PRO are available in 2 versions, standard NM3L and a self-test version, STNM3L. Both are supplied with lithium batteries and a 7-year warranty.



ORDER CODE		POWER	LUMENS (lm)	EFFICACY (lm/c.W)	MOUNTING	EMERGENCY
N/HB/NM3L/PACK	High Bay IP65 NM3 Lithium Pack For NJP & NNT Ranges	8	1319	165	Suspended	Manual-test
N/HB/STNM3L/PACK	High Bay IP65 STNM3 Lithium Pack For NJP & NNT Ranges	8	1319	165	Suspended	Self-test

# NEPTUNE

IP65 rated high-bay



STIRRUP MOUNT BRACKET  
AVAILABLE FOR MOUNTING  
AS FLOODLIGHT



## APPLICATIONS

- Industrial and warehouse premises

## SPECIFICATION

- Die-cast aluminium body painted black
- LEDs behind UV stable, polycarbonate lens panel giving 110° beam angle
- For suspended installation. Suspension eyelet supplied
- Pre-wired with 2m of HO5 flex



EMERGENCY CONVERSION PACKS AVAILABLE  
IN STANDARD VERSION, NM3L, AND SELF-TEST,  
STNM3L. SEE PAGE 76 FOR DETAILS.

## OPTIONS

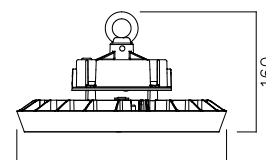
**Wattage.** Three wattages are available:  
100W, 150W and 200W

**Alternative lenses** are available, as listed, to deliver narrower beam angles of 60° and 90°. To be ordered as separate items and fitted on site.

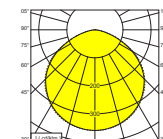
**Emergency conversion packs** - all non-maintained 3 hours with lithium (LiFePO4) batteries

Emergency conversion packs, with their own light source, are available in manual test (NM3L) and self-test (STNM3L) versions, ordered separately as listed below

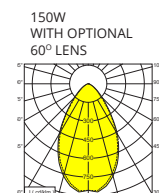
**Stirrup mounting bracket** enabling NEPTUNE to be mounted direct to a surface, available to be ordered as a separate item as listed



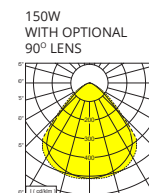
100W = Ø220  
150W = Ø270  
200W = Ø310



150W  
WITH STANDARD  
(110°) LENS



150W  
WITH OPTIONAL  
60° LENS



150W  
WITH OPTIONAL  
90° LENS

## Standard with 110° lens

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.w)	BEAM ANGLE	CRI	CCT (K)
NNT/100/840	220	99	15405	156	110°	>80	4000
NNT/150/840	270	148	23034	156	110°	>80	4000
NNT/200/840	310	200	31563	158	110°	>80	4000

## 60° lens

ORDER CODE	DESCRIPTION
NNT/60DEG/100	Neptune 60 Deg Lens For 100W
NNT/60DEG/150	Neptune 60 Deg Lens For 150W
NNT/60DEG/200	Neptune 60 Deg Lens For 200W

## 90° lens

ORDER CODE	DESCRIPTION
NNT/90DEG/100	Neptune 90 Deg Lens For 100W
NNT/90DEG/150	Neptune 90 Deg Lens For 150W
NNT/90DEG/200	Neptune 90 Deg Lens For 200W

## M3 Emergency conversion packs

ORDER CODE	DESCRIPTION
N/HB/NM3L/PACK	High Bay IP65 NM3 Lithium Pack For NJP & NNT Ranges
N/HB/STNM3L/PACK	High Bay IP65 STNM3 Lithium Pack For NJP & NNT Ranges

## Stirrup mount brackets

ORDER CODE	DESCRIPTION
NNT/SMB/100-150	Neptune 100W/150W Stirrup Mount Bracket
NNT/SMB/200	Neptune 200W Stirrup Mount Bracket











# AMENITY



104

PORTLAND



106

PASCO



108

ADDISON PRO



110

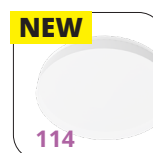
PRESTON



NEW

112

AMARILLO



NEW

114

ATLANTA



116

SPARTAN



118

DENALI



120

BROOKLYN



122

BALTIMORE



124

BRONX SLIM



126

REBUS



NEW

127

RENTON



# PORTLAND

CCT selectable IP54 bulkhead fitting



## APPLICATIONS

- For commercial interior use in corridors, toilets and changing rooms

## SPECIFICATION

- White polycarbonate base and white (WH) or chrome (CH) bezel
- Opal polycarbonate diffuser
- Selectable CCT: 4000K, 5000K

## OPTIONS

### Wattages

- 15W or 18W

### Sensor

- MW:** Microwave sensor fitted to the gear tray

## Emergency – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

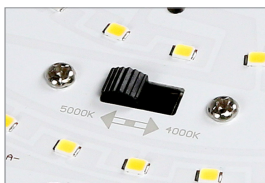
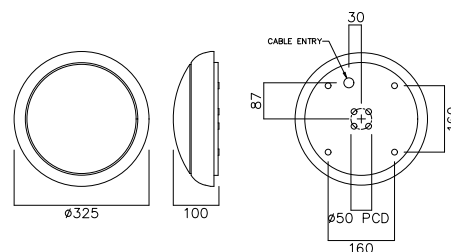
- M3: Manual test
- STM3: Self-test
- CSDAM3: Casambi addressable test
- HSDAM3: HubSense addressable test
- DAM3: DALI addressable test

## Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

## Replacement gear trays

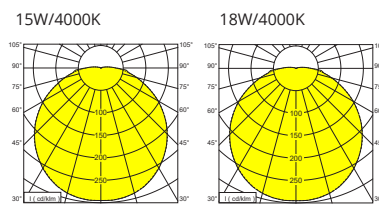
Available in standard and emergency (M3L) variants, driver included, as listed opposite



CCT SELECTABLE  
4000K/5000K



AVAILABLE WITH MICROWAVE  
SENSOR FITTED



## KEY FEATURES

**ROBUST** – Robust polycarbonate body and diffuser, IK08 rated

**CCT SELECTABLE** – Choice of 4000K & 5000K via slider switch on gear tray

**VERSATILE** – Choice of wattages, sensor and dimming make PORTLAND suitable for many projects

**SUSTAINABILITY** – Replaceable gear trays to extend the life of an installation

## SMART WIRELESS CONTROLS



CASAMBI

PORTLAND can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

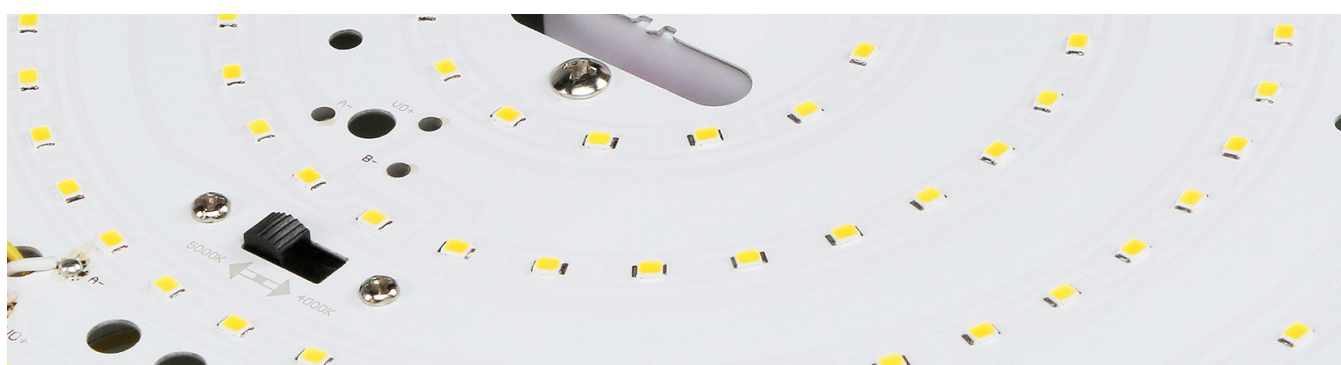
# PORTLAND

## 15W, with microwave sensors and manual test emergency (M3)

ORDER CODE	DIAMETER (mm)	BEZEL COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (Llm/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>										
NPO15/WH/O/840-850	325	White	15	1739	104				>80	4000 / 5000
NPO15/WH/M3/840-850	325	White	15	1739	104			M3	>80	4000 / 5000
NPO15/WH/STM3/840-850	325	White	15	1739	104			STM3	>80	4000 / 5000
NPO15/CH/O/840-850	325	Chrome	15	1739	104				>80	4000 / 5000
NPO15/CH/M3/840-850	325	Chrome	15	1739	104			M3	>80	4000 / 5000
<b>MICROWAVE</b>										
NPO15/WH/O/MW/840-850	325	White	15	1739	104		Microwave		>80	4000 / 5000
NPO15/WH/MW/M3/840-850	325	White	15	1739	104		Microwave	M3	>80	4000 / 5000
<b>CORRIDOR FUNCTION MICROWAVE</b>										
NPO15/CF/MW/WH/O/840-850	325	White	15	1739	104	Corridor Function	Microwave		>80	4000 / 5000
NPO15/WH/CFMW/M3/840-850	325	White	15	1739	104	Corridor Function	Microwave	M3	>80	4000 / 5000

## 18W, with microwave sensors and manual test emergency (M3)

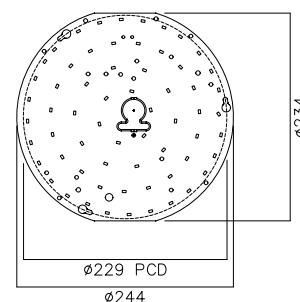
ORDER CODE	DIAMETER (mm)	BEZEL COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (Llm/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>										
NPO18/WH/O/840-850	325	White	17	1947	116				>80	4000 / 5000
NPO18/WH/M3/840-850	325	White	17	1947	116			M3	>80	4000 / 5000
<b>MICROWAVE</b>										
NPO18/WH/O/MW/840-850	325	White	17	1947	116		Microwave		>80	4000 / 5000
NPO18/WH/MW/M3/840-850	325	White	17	1947	116		Microwave	M3	>80	4000 / 5000
<b>CORRIDOR FUNCTION MICROWAVE</b>										
NPO18/WH/CFMW/840-850	325	White	17	1947	116	Corridor Function	Microwave		>80	4000 / 5000
NPO18/WH/CFMW/M3/840-850	325	White	17	1947	116	Corridor Function	Microwave	M3	>80	4000 / 5000



## REPLACEMENT GEAR TRAYS AVAILABLE

To extend the life of a PORTLAND installation, or to upgrade it to the latest and most efficient LED technology, replacement gear trays are available.

ORDER CODE	DESCRIPTION
NGT15/CIR/840-850	Gear Tray 15W LED Circular 840-850 With Driver
NGT15/M3L/840-850	Gear Tray 15W LED Circular M3 Lithium 840-850 With Driver



# PASCO

IP65, CCT and power selectable bulkhead



## APPLICATIONS

- For interior use in corridors, toilets and changing rooms

## SPECIFICATION

- Polycarbonate base and bezel
- Opal polycarbonate diffuser
- Selectable wattage: 9W, 14W, 18W
- Selectable CCT: 3000K, 4000K, 6500K

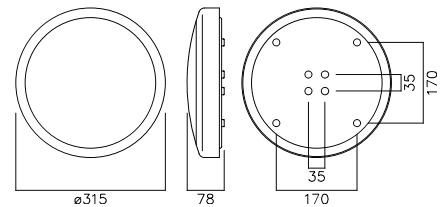
## OPTIONS

**Emergency** – maintained 3 hours with lithium (LiFePO4) batteries

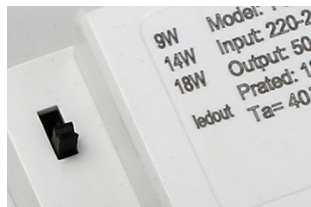
- M3L: Manual test

## Sensor

- MW: Microwave sensor fitted to the gear tray



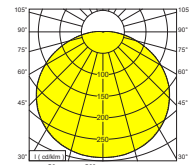
MULTI-CCT SELECTABLE  
3000K / 4000K / 6500K



WATTAGE SELECTABLE  
9W / 14W / 18W



MW SENSOR



## Standard and manual test emergency (M3L)

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>								
NPC/WH/830-40-65	315	9 / 14 / 17	1057 / 1658 / 1858	119 / 127 / 111			>80	3000 / 4000 / 6500
NPC/WH/M3L/830-40-65	315	9 / 14 / 17	1057 / 1658 / 1858	119 / 127 / 111		M3L	>80	3000 / 4000 / 6500
<b>MICROWAVE</b>								
NPC/WH/MW/830-40-65	315	9 / 14 / 17	1057 / 1658 / 1858	119 / 127 / 111	Microwave		>80	3000 / 4000 / 6500
NPC/WH/MW/M3L/830-40-65	315	9 / 14 / 17	1057 / 1658 / 1858	119 / 127 / 111	Microwave	M3L	>80	3000 / 4000 / 6500







# ADDISON PRO

CCT selectable IP40 high output decorative bulkhead fitting



## APPLICATIONS

- For commercial interior use in stairwells, corridors and communal areas

## SPECIFICATION

- White polycarbonate base
- Opal polycarbonate diffuser
- Selectable CCT: 3000K, 4000K, 5000K



AVAILABLE WITH MICROWAVE SENSOR FITTED

## OPTIONS

### Wattages

- 20W or 28W

### Emergency

- M3L: Manual test
- STM3L: Self-test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test
- DAM3L: DALI addressable test

### Dimming

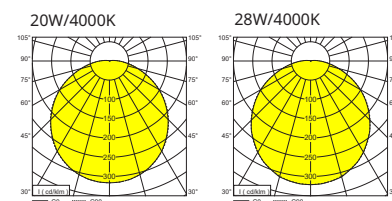
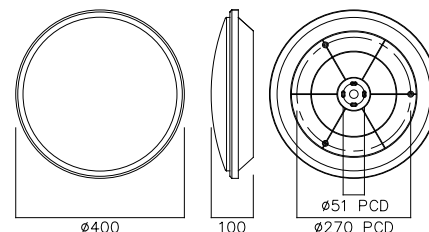
- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function - dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

### Sensor

- MW: Microwave sensor fitted to the gear tray

### Snap-on bezel trim – ordered separately, optional

- Chrome
- Satin chrome



## KEY FEATURES

**CCT SELECTABLE** – 3000K, 4000K & 5000K via slider switch on gear tray

**OUTPUT OPTIONS** – Choice of lumen packages to meet user requirements

**VERSATILE** – Choice of wattages, sensor and dimming makes ADDISON PRO suitable for many different projects

## SMART WIRELESS CONTROLS



CASAMBI

ADDISON PRO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



# ADDISON PRO

## 20W standard output and manual test emergency (M3L)

ORDER CODE	DIAMETER (mm)	BEZEL COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>										
NAD20/WH/830-40-50	400	White	20	2620	132				>80	3000 / 4000 / 5000
NAD20/WH/M3L/830-40-50	400	White	20	2620	132			M3L	>80	3000 / 4000 / 5000
<b>DIGITAL DIMMING</b>										
NAD20/DD/830-40-50	400	White	20	2620	132	Digital Dimming			>80	3000 / 4000 / 5000
NAD20/DD/M3L/830-40-50	400	White	20	2620	132	Digital Dimming		M3L	>80	3000 / 4000 / 5000
<b>MICROWAVE</b>										
NAD20/MW/830-40-50	400	White	20	2620	132		Microwave		>80	3000 / 4000 / 5000
NAD20/MW/M3L/830-40-50	400	White	20	2620	132		Microwave	M3L	>80	3000 / 4000 / 5000
<b>CORRIDOR FUNCTION MICROWAVE</b>										
NAD20/CFMW/830-40-50	400	White	20	2620	132	Corridor Function	Microwave		>80	3000 / 4000 / 5000
NAD20/CFMW/M3L/830-40-50	400	White	20	2620	132	Corridor Function	Microwave	M3L	>80	3000 / 4000 / 5000

## 28W high output and manual test emergency (M3L)

ORDER CODE	DIAMETER (mm)	BEZEL COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>										
NAD28/WH/830-40-50	400	White	27	3565	133				>80	3000 / 4000 / 5000
NAD28/WH/M3L/830-40-50	400	White	27	3565	133			M3L	>80	3000 / 4000 / 5000
<b>DIGITAL DIMMING</b>										
NAD28/DD/830-40-50	400	White	27	3565	133	Digital Dimming			>80	3000 / 4000 / 5000
NAD28/DD/M3L/830-40-50	400	White	27	3565	133	Digital Dimming		M3L	>80	3000 / 4000 / 5000
<b>MICROWAVE</b>										
NAD28/MW/830-40-50	400	White	27	3565	133		Microwave		>80	3000 / 4000 / 5000
NAD28/MW/M3L/830-40-50	400	White	27	3565	133		Microwave	M3L	>80	3000 / 4000 / 5000
<b>CORRIDOR FUNCTION MICROWAVE</b>										
NAD28/CFMW/830-40-50	400	White	27	3565	133	Corridor Function	Microwave		>80	3000 / 4000 / 5000
NAD28/CFMW/M3L/830-40-50	400	White	27	3565	133	Corridor Function	Microwave	M3L	>80	3000 / 4000 / 5000

## Accessories

ORDER CODE	DESCRIPTION
NAD/CH/TRIM	Addison Pro Chrome Trim
NAD/SCH/TRIM	Addison Pro Satin Chrome Trim
NAT/NAG/WIRE/SUSP/KIT	Wire Suspension 1.5m Kit for NAT, NAG, NAM & NAD Ranges

# PRESTON

CCT selectable, IK10 & IP65 rated halo effect bulkhead for interior use



## APPLICATIONS

- For commercial interior use in stairwells, corridors, bathrooms, toilets and communal areas

## SPECIFICATION

- White polycarbonate base
- Opal polycarbonate diffuser screw-fixed to the base for tamper resistance
- White polycarbonate trim to cover diffuser screw fixings
- Halo effect created by opal side panel emitting light onto the mounting surface
- Selectable CCT: 3000K, 4000K
- Rear or side cable entry

## OPTIONS

### Wattages

- 21W or 32W

### Emergency

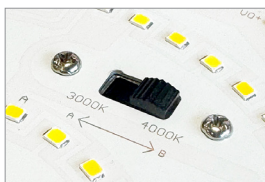
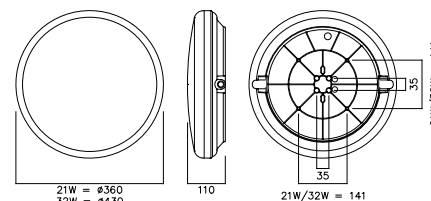
- M3L: Manual test
- STM3L: Self-test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test
- DAM3L: DALI addressable test

### Dimming

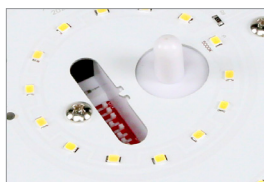
- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function - dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

### Sensor

- MW: Microwave sensor fitted to the gear tray



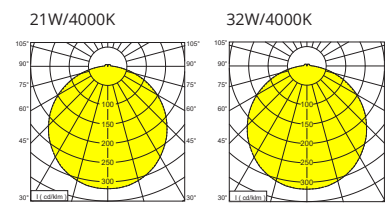
CCT SELECTABLE  
3000K/4000K



AVAILABLE WITH MICROWAVE  
SENSOR FITTED



TAMPER RESISTANT SCREWS



## KEY FEATURES

**ROBUST** – IK10 rated so suitable for areas where impact resistance is required

**TAMPER PROOF** – Screw-down diffuser

**CCT SELECTABLE** – Choice of 3000K & 4000K via slider switch on gear tray

**VERSATILE** – Choice of wattages, sensor and dimming

## SMART WIRELESS CONTROLS



PRESTON can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



# PRESTON

## 21W standard output and manual test emergency (M3L)

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>									
NPE21/830-840	360	19	2083	98 / 110				>80	3000 / 4000
NPE21/M3L/830-840	360	19	2083	98 / 110			M3L	>80	3000 / 4000
<b>DIGITAL DIMMING</b>									
NPE21/DD/830-840	360	19	2083	98 / 110	Digital Dimming			>80	3000 / 4000
NPE21/DD/M3L/830-840	360	19	2083	98 / 110	Digital Dimming		M3L	>80	3000 / 4000
<b>MICROWAVE</b>									
NPE21/MW/830-840	360	19	2083	98 / 110		Microwave		>80	3000 / 4000
NPE21/MW/M3L/830-840	360	19	2083	98 / 110		Microwave	M3L	>80	3000 / 4000
<b>CORRIDOR FUNCTION MICROWAVE</b>									
NPE21/CFMW/830-840	360	19	2083	98 / 110	Corridor Function	Microwave		>80	3000 / 4000
NPE21/CFMW/M3L/830-840	360	19	2083	98 / 110	Corridor Function	Microwave	M3L	>80	3000 / 4000

## 32W high output and manual test emergency (M3L)

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>									
NPE32/830-840	430	28	2900	102				>80	3000 / 4000
NPE32/M3L/830-840	430	28	2900	102			M3L	>80	3000 / 4000
<b>DIGITAL DIMMING</b>									
NPE32/DD/830-840	430	28	2900	102	Digital Dimming			>80	3000 / 4000
NPE32/DD/M3L/830-840	430	28	2900	102	Digital Dimming		M3L	>80	3000 / 4000
<b>MICROWAVE</b>									
NPE32/MW/830-840	430	28	2900	102		Microwave		>80	3000 / 4000
NPE32/MW/M3L/830-840	430	28	2900	102		Microwave	M3L	>80	3000 / 4000
<b>CORRIDOR FUNCTION MICROWAVE</b>									
NPE32/CFMW/830-840	430	28	2900	102	Corridor Function	Microwave		>80	3000 / 4000
NPE32/CFMW/M3L/830-840	430	28	2900	102	Corridor Function	Microwave	M3L	>80	3000 / 4000

# AMARILLO **NEW**

High output, wattage and CCT selectable, IP54 rated decorative bulkhead with a choice of trims



WITH FULL TRIM FITTED



## APPLICATIONS

- For light commercial and residential use
- Corridors, toilets, kitchens and bathrooms
- For surface or suspended installation
- High output versions suitable for foyers and high ceiling areas

## SPECIFICATION

- Polycarbonate base
- Polycarbonate opal diffuser attached to base with twist-lock motion
- Selector switches fitted internally for wattage (as listed below) and CCT, 3000K and 4000K
- Narrow ("semi") aluminium snap-on bezel, painted white (RAL9016), fitted as standard.

## OPTIONS

### Diameter and wattage

Available in three sizes, each with 3 selectable wattages:

- 290mm diameter, 7W, 12W, 17W selectable
- 360mm diameter, 10W, 15W, 22W selectable
- 460mm diameter, 19W, 24W, 29W selectable

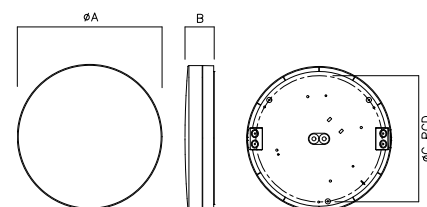
### Emergency

- M3L Manual test emergency conversion packs with lithium batteries, available as listed opposite
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

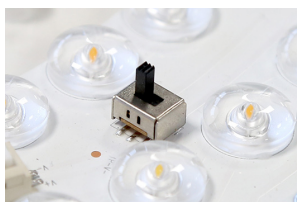
### Snap-on bezel trim

White (RAL9016) full trim and black (RAL9005) semi and full decorative trim available as accessories, to be purchased separately, as listed opposite.

## FITTING



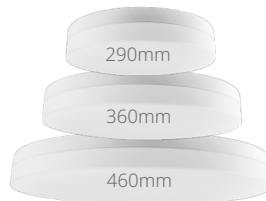
SIZE	A	B	C
7-12-17W	290	58	253 X3
10-15-22W	360	58	320 X3
19-24-29W	460	59	400 X4



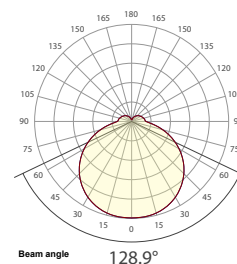
CCT SELECTABLE - 3000/4000K



WATTAGE SELECTABLE - 7W - 29W



CHOICE OF 3 SIZES



## KEY FEATURES

**INTERCHANGEABLE BEZELS** – Black or white, full or semi

**CHOICE OF 3 SIZES** – 290mm, 360mm & 460mm

**WIDE POWER RANGE** – 7W to 29W

**CCT SELECTABLE** – 3000K & 4000K

## SMART WIRELESS CONTROLS



AMARILLO can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



# NEW AMARILLO

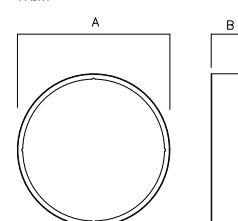
## Standard

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	DIMMING	EMERGENCY	CRI	CCT (K)
NAM/7-12-17/830-840	290	7 / 12 / 17	806 / 1356 / 1816	114	-		>80	3000 / 4000
NAM/7-12-17/M3L/830-840	290	7 / 12 / 17	806 / 1356 / 1816	114	-	M3L	>80	3000 / 4000
NAM/10-15-22/830-840	360	10 / 15 / 22	1182 / 1726 / 2461	117	-		>80	3000 / 4000
NAM/10-15-22/M3L/830-840	360	10 / 15 / 22	1182 / 1726 / 2461	117	-	M3L	>80	3000 / 4000
NAM/19-24-29/830-840	460	19 / 24 / 29	2448 / 3013 / 3558	126	-		>80	3000 / 4000
NAM/19-24-29/M3L/830-840	460	19 / 24 / 29	2448 / 3013 / 3558	126	-	M3L	>80	3000 / 4000

## Accessories

ORDER CODE	DESCRIPTION	DIAMETER (mm)
NAM/TRIM-SEMI/BK/290	Amarillo Semi Deco Trim Black for 290mm Diameter	290
NAM/TRIM-SEMI/BK/360	Amarillo Semi Deco Trim Black for 360mm Diameter	360
NAM/TRIM-SEMI/BK/460	Amarillo Semi Deco Trim Black for 460mm Diameter	460
NAM/TRIM-FULL/BK/290	Amarillo Full Deco Trim Black for 290mm Diameter	290
NAM/TRIM-FULL/BK/360	Amarillo Full Deco Trim Black for 360mm Diameter	360
NAM/TRIM-FULL/BK/460	Amarillo Full Deco Trim Black for 460mm Diameter	460
NAM/TRIM-FULL/WH/290	Amarillo Full Deco Trim White for 290mm Diameter	290
NAM/TRIM-FULL/WH/360	Amarillo Full Deco Trim White for 360mm Diameter	360
NAM/TRIM-FULL/WH/460	Amarillo Full Deco Trim White for 460mm Diameter	460

TRIM



FITTING SIZE	TRIM TYPE	A	B
290	SEMI	292	37
360	SEMI	364	37
460	SEMI	464	37
290	FULL	292	72
360	FULL	364	72
460	FULL	464	72



FULL TRIM - WHITE



FULL TRIM - BLACK



SEMI TRIM - BLACK

## Accessories

ORDER CODE	DESCRIPTION	LENGTH (mm)
NAT/NAG/WIRE/SUSP/KIT	Wire Suspension Kit for NAT & NAG	1500

## Emergency Conversion Packs

ORDER CODE	DESCRIPTION	MOUNTING	POWER (W)
NAM/M3/PACK/290	Amarillo Plug & Play M3 Pack for 290mm Fittings	EXTERNAL	??
NAM/M3/PACK/360-460	Amarillo Plug & Play M3 Pack for 360mm & 460mm Fittings	EXTERNAL	??

# ATLANTA NEW

Power and CCT selectable, IP44 rated bulkhead for surface or suspended installation



## APPLICATIONS

- For light industrial, commercial and residential use
- Toilets, bathrooms, corridors and circulation areas
- For surface or suspended installation

## SPECIFICATION

- First-fix polycarbonate base with terminal block and female connector
- Second-fix light engine with LEDs, opal diffuser and male connector
- Selector switches fitted internally for wattage (as listed below) and CCT, 3000K, 3500K and 4000K



WATTAGE AND CCT SELECTABLE

## OPTIONS

### Diameter and wattage

Available in two sizes, each with 3 selectable wattages:

- 300mm diameter, 8W, 10W, 12W selectable
- 450mm diameter, 10W, 14W, 18W selectable

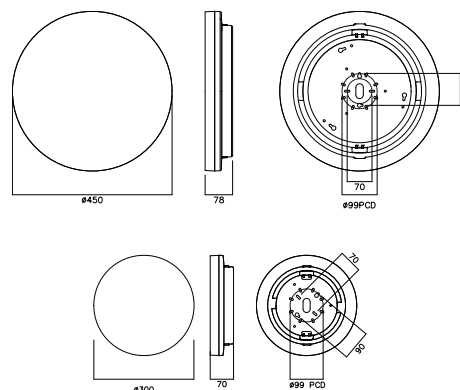
### Emergency

- M3 Manual test emergency conversion packs with lithium batteries, available as listed below

### Sensor

Available with a passive infra-red occupancy sensor fitted, adjustable for:

- Lux: 0-30 lx
- Detection range: 3-8m at 2.5m mounting height
- Time delay: 8 steps, from 2 seconds to 30 minutes



## Standard

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NAT/8-12/W/CCT	300	8 / 10 / 12	Up to 1769	147	-	>80	3000 / 3500 / 4000
NAT/10-18/W/CCT	450	10 / 14 / 18	Up to 2638	147	-	>80	3000 / 3500 / 4000
<b>PIR SENSOR</b>							
NAT/8-12/W/PIR/CCT	300	8 / 10 / 12	Up to 1769	147	PIR	>80	3000 / 3500 / 4000
NAT/10-18/W/PIR/CCT	450	10 / 14 / 18	Up to 2638	147	PIR	>80	3000 / 3500 / 4000

## Accessories

ORDER CODE	DESCRIPTION	LENGTH (mm)
NAT/NAG/WIRE/SUSP/KIT	Wire Suspension Kit for NAT & NAG	1500

## Emergency Conversion Pack

ORDER CODE	DESCRIPTION	MOUNTING	POWER (W)
NAT/NAG/M3/PACK	Plug & Play M3 Pack for Atlanta & Augusta	EXTERNAL	??



**NEW ATLANTA**

**Quick release base plate**  
with terminal block  
for first fix

**Flying lead connectors**  
for easy connection of light  
engine on second fix



ATLANTA is designed for first-fix,  
second-fix installation.

**FIRST FIX**

- Attach base to mounting surface
- Introduce mains cable and terminate in terminal block

**Keep light engine safe while other trades finish**

**SECOND FIX**

- Attach light engine to base with male/female connector
- Twist & lock the light engine in place

**Piano-key terminals**  
for tool-less connection &  
loop in /loop out



# SPARTAN

CCT selectable IP65 and IK10 rated polycarbonate bulkhead fitting



OPTIONAL SNAP-ON PLAIN OR EYELID BEZELS  
WHITE OR BLACK AVAILABLE SEPARATELY

## APPLICATIONS

- For commercial interior and exterior use in corridors, walkways, entrances and building perimeters

## SPECIFICATION

- Polycarbonate base in black (BK) or white (WH)
- Opal polycarbonate diffuser
- IP65 and IK10 rated
- Selectable CCT: 3000K, 4000K, 5000K
- Rear cable entry

## OPTIONS

### Wattages

- Standard 11W or 17W high output (HO)

### Emergency – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- M3: Manual test
- STM3: Self-test

### Dimming

- CF: Corridor Function

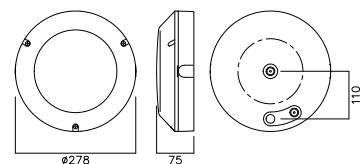
### Sensor

- MW: Microwave sensor fitted to the gear tray
- PEC: Photo-Electric Cell for dusk / dawn operation, switching on at 15 lux and off at 45 lux.

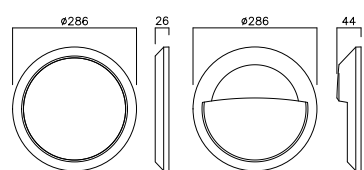
### Snap-on bezel trim – ordered separately, optional

- Plain or eyelid (ELID)
- White (WH) or black (BK)

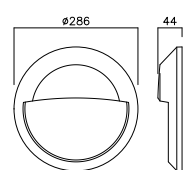
FITTING



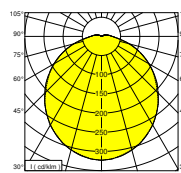
STANDARD BEZEL



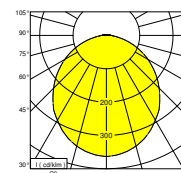
EYELID BEZEL



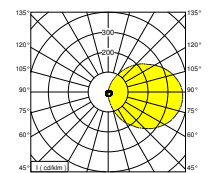
WITHOUT BEZEL



WITH STANDARD BEZEL



WITH EYELID BEZEL



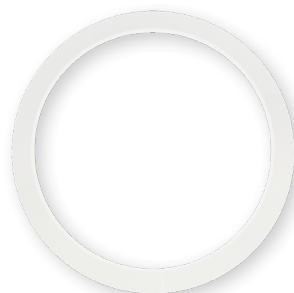
Snap-on bezel (ordered separately, optional)



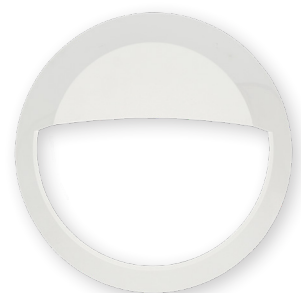
SPARTAN Plain Bezel - Black



SPARTAN Eyelid Bezel - Black



SPARTAN Plain Bezel - White



SPARTAN Eyelid Bezel - White



# SPARTAN

## 11W standard, manual test and self-test emergency (M3)

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>									
NSP/WH/830-40-50	278	9	1265	139				>80	3000 / 4000 / 5000
NSP/WH/M3/830-40-50	278	9	1265	139			M3	>80	3000 / 4000 / 5000
NSP/BK/830-40-50	278	9	1265	139				>80	3000 / 4000 / 5000
NSP/BK/M3/830-40-50	278	9	1265	139			M3	>80	3000 / 4000 / 5000
<b>SELF-TEST EMERGENCY</b>									
NSP/WH/STM3/830-40-50	278	9	1265	139			STM3	>80	3000 / 4000 / 5000
NSP/BK/STM3/830-40-50	278	9	1265	139			STM3	>80	3000 / 4000 / 5000
<b>MICROWAVE</b>									
NSP/WH/MW/830-40-50	278	9	1265	139		Microwave		>80	3000 / 4000 / 5000
NSP/WH/MW/M3/830-40-50	278	9	1265	139		Microwave	M3	>80	3000 / 4000 / 5000
NSP/BK/MW/830-40-50	278	9	1265	139		Microwave		>80	3000 / 4000 / 5000
NSP/BK/MW/M3/830-40-50	278	9	1265	139		Microwave	M3	>80	3000 / 4000 / 5000
<b>CORRIDOR FUNCTION MICROWAVE</b>									
NSP/WH/CFMW/830-40-50	278	9	1265	139	Corridor Function	Microwave		>80	3000 / 4000 / 5000
NSP/WH/CFMW/M3/830-40-50	278	9	1265	139	Corridor Function	Microwave	M3	>80	3000 / 4000 / 5000
<b>PHOTO-ELECTRIC CELL</b>									
NSP/WH/PEC/830-40-50	278	9	1265	139		Photo-Electric Cell		>80	3000 / 4000 / 5000
NSP/WH/PEC/M3/830-40-50	278	9	1265	139		Photo-Electric Cell	M3	>80	3000 / 4000 / 5000
NSP/BK/PEC/830-40-50	278	9	1265	139		Photo-Electric Cell		>80	3000 / 4000 / 5000
NSP/BK/PEC/M3/830-40-50	278	9	1265	139		Photo-Electric Cell	M3	>80	3000 / 4000 / 5000

## 17W high output and emergency (M3)

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	DIMMING	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>									
NSP/WH/HO/830-40-50	278	17	2186	130				>80	3000 / 4000 / 5000
NSP/WH/HO/M3/830-40-50	278	17	2186	130			M3	>80	3000 / 4000 / 5000
NSP/BK/HO/830-40-50	278	17	2186	130				>80	3000 / 4000 / 5000
NSP/BK/HO/M3/830-40-50	278	17	2186	130			M3	>80	3000 / 4000 / 5000
<b>SELF-TEST EMERGENCY</b>									
NSP/WH/HO/STM3/830-40-50	278	17	2186	130			STM3	>80	3000 / 4000 / 5000
NSP/BK/HO/STM3/830-40-50	278	17	2186	130			STM3	>80	3000 / 4000 / 5000
<b>MICROWAVE</b>									
NSP/WH/HO/MW/830-40-50	278	17	2186	130		Microwave		>80	3000 / 4000 / 5000
NSP/WH/HO/MWM3/830-40-50	278	17	2186	130		Microwave	M3	>80	3000 / 4000 / 5000
NSP/BK/HO/MW/830-40-50	278	17	2186	130		Microwave		>80	3000 / 4000 / 5000
NSP/BK/HO/MWM3/830-40-50	278	17	2186	130		Microwave	M3	>80	3000 / 4000 / 5000
<b>CORRIDOR FUNCTION MICROWAVE</b>									
NSP/WH/HO/CFMW/830-40-50	278	17	2186	130	Corridor Function	Microwave		>80	3000 / 4000 / 5000
NSP/WH/HO/CFMWM3/830-40-50	278	17	2186	130	Corridor Function	Microwave	M3	>80	3000 / 4000 / 5000
<b>PHOTO-ELECTRIC CELL</b>									
NSP/WH/HO/PEC/830-40-50	278	17	2186	130		Photo-Electric Cell		>80	3000 / 4000 / 5000
NSP/WH/HO/PECM3/830-40-50	278	17	2186	130		Photo-Electric Cell	M3	>80	3000 / 4000 / 5000
NSP/BK/HO/PEC/830-40-50	278	17	2186	130		Photo-Electric Cell		>80	3000 / 4000 / 5000
NSP/BK/HO/PECM3/830-40-50	278	17	2186	130		Photo-Electric Cell	M3	>80	3000 / 4000 / 5000

## Accessories

ORDER CODE	DESCRIPTION	DIAMETER
NSP/BK/BEZEL/3CCT	SPARTAN Plain Bezel - Black	286
NSP/BK/EYELID/3CCT	SPARTAN Eyelid Bezel - Black	286
NSP/WH/BEZEL/3CCT	SPARTAN Plain Bezel - White	286
NSP/WH/EYELID/3CCT	SPARTAN Eyelid Bezel - White	286

# DENALI

Contemporary design IP65 and IK10 rated aluminium bulkhead



DENALI IS AVAILABLE WITH A STANDARD CIRCULAR BEZEL OR AN EYELID BEZEL

## APPLICATIONS

- Aluminium bulkhead for commercial exterior use

## SPECIFICATION

- Die-cast aluminium base and bezel
- Light textured dark grey paint finish (RAL7012)
- Opal polycarbonate diffuser
- Piano-key terminals for 2 x 1.5mm<sup>2</sup> cable
- Twin rear cable entry points with grommets supplied

## OPTIONS

**Emergency** – all maintained 3 hours with (LiFePO<sub>4</sub>) lithium batteries

- M3: Manual test
- STM3: Self-test

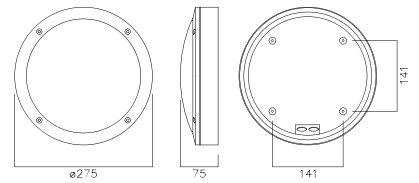
## Dimming

- CF: Corridor Function
- DD: Digital Dimming, DALI and Switch Dim

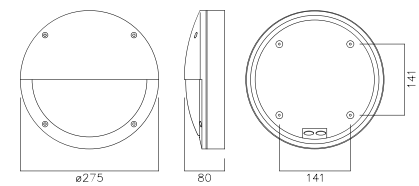
## Sensor

- MW: Microwave sensor fitted to the gear tray, not available on eyelid and emergency versions

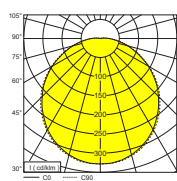
### STANDARD BEZEL



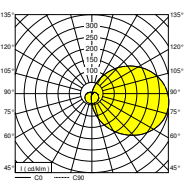
### EYELID BEZEL



### STANDARD



### EYELID



## KEY FEATURES

**STYLISH** – High quality aluminium finish in contemporary design

**BEZEL OPTIONS** – Standard circular or eyelid bezel

**ROBUST** – IK10 rated so suitable for areas where impact resistance is required

ORDER CODE	DIAMETER (mm)	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	EMERGENCY	CRI	CCT (K)
<b>STANDARD BEZEL</b>							
NDE15/840	275	18	1759	96		>80	4000
NDE15/M3L/840	275	18	1759	96	M3L	>80	4000
<b>EYELID BEZEL</b>							
NDE15/ELID/840	275	17	1295	76		>80	4000
NDE15/ELID/M3L/840	275	17	1295	76	M3L	>80	4000







# BROOKLYN

Stylish CCT and wattage selectable  
IP65 and IK10 die-cast aluminium  
wall pack with asymmetric light  
distribution



## APPLICATIONS

- For wall mounting at building entrances, perimeters and along walkways

## SPECIFICATION

- Die-cast aluminium base, painted black
- Clear polycarbonate cover
- IP65 and IK10 rated
- Selectable CCT: 3000K, 4000K, 6000K
- Selectable wattage: 18W, 28W
- Drill points for cable entry on sides and rear
- Supplied with M20 blanking plug – use optional
- Supplied with stainless steel wall mounting bracket
- Acrylic (PMMA) lens with asymmetric distribution

## OPTIONS

**Emergency** – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

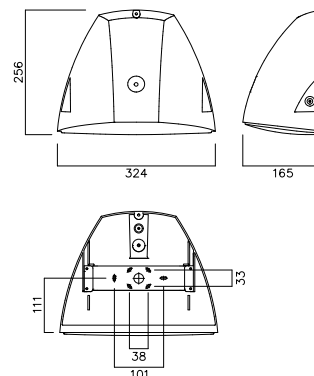
- M3L: Manual test
- STM3L: Self-test
- DAM3L: DALI addressable test

## Dimming

- CF: Corridor Function
- DD: Digital Dimming, DALI and Switch Dim

## Sensor

- PEC: Photo-Electric Cell for dusk / dawn operation, switching on at 15 lux and off at 45 lux.



## KEY FEATURES

**ASYMMETRIC OPTICS** – Lenses direct the light down and away from the wall

**MULTI-WATTAGE** – Choice of two outputs via slider switch

**CCT SELECTABLE** - 3000K, 4000K & 6000K via slider switch

**ROBUST** – IK10 rated so suitable for areas where impact resistance is required

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	DIMMING	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>								
NBR18-28/830-40-60	18 / 28	2263 / 3401	129 / 126				>80	3000 / 4000 / 6000
NBR18-28/M3L/830-40-60	18 / 28	2263 / 3401	129 / 126			M3L	>80	3000 / 4000 / 6000
<b>PHOTO-ELECTRIC CELL</b>								
NBR18-28/PEC/830-40-60	18 / 28	2263 / 3401	129 / 126	Photo-Electric Cell			>80	3000 / 4000 / 6000
NBR18-28/PEC/M3L/830-40-60	18 / 28	2263 / 3401	129 / 126	Photo-Electric Cell		M3L	>80	3000 / 4000 / 6000
<b>SINGLE WATTAGE DD DIM</b>								
NBR18/DD/830-40-60	18	2263	129		Digital Dimming		>80	3000 / 4000 / 6000
NBR18/DD/M3L/830-40-60	18	2263	129		Digital Dimming	M3L	>80	3000 / 4000 / 6000
NBR28/DD/830-40-60	28	3401	126		Digital Dimming		>80	3000 / 4000 / 6000
NBR28/DD/M3L/830-40-60	28	3401	126		Digital Dimming	M3L	>80	3000 / 4000 / 6000

\* RESULTS @ 4000K



# BROOKLYN

## IMPACT RESISTANT

Die-cast aluminium body, IK10 rated, designed to withstand rough treatment

## PHOTO-CELL READY

Position of photocell, when fitted

## REAR OR SIDE CABLE ENTRY

20mm drill points provided for side or rear cable entry

## EASY INSTALLATION

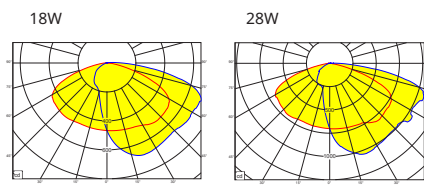
Hinged gear tray for easy installation and maintenance

## TOOLLESS TERMINAL BLOCK

4-pole, piano-key loop-in / loop-out terminal block

## CCT & POWER SELECTABLE

CCT and wattage selection switches



## CCT Selectable

Choose between 3000K, 4000K or 6000K to suit the location and ambience required.

## Power Selectable

With a choice of 18W or 28W, the output of BROOKLYN can be raised or lowered to suit the application.

## Asymmetric Lens

The PMMA lens on BROOKLYN directs light down and away from the wall on which it is mounted, creating an ideal light distribution for paths.

# BALTIMORE

CCT and wattage selectable IP65 and IK10 polycarbonate wall pack with asymmetric light distribution



## APPLICATIONS

- For wall mounting at building entrances, perimeters and along walkways

## SPECIFICATION

- Polycarbonate base, black
- Clear polycarbonate cover
- IP65 and IK10 rated
- Selectable CCT: 3000K, 4000K, 6000K
- Selectable wattage: 16W, 24W
- Drill points for cable entry on sides and rear
- Supplied with M20 blanking plug – use optional
- Supplied with stainless steel wall mounting bracket
- Hinged gear tray
- Acrylic (PMMA) lens with asymmetric distribution

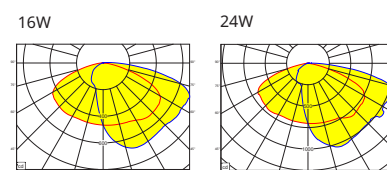
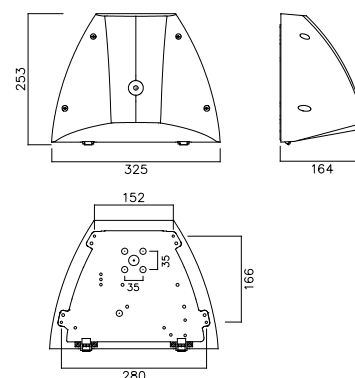
## OPTIONS

### Emergency

- M3L: Manual test

### Sensor

- PEC: Photo-Electric Cell for dusk / dawn operation, switching on at 15 lux and off at 45 lux.



ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
<b>STANDARD</b>							
NBM16-24/830-40-60	16 / 24	2298 / 3260	145 / 136			>80	3000 / 4000 / 6000
NBM16-24/M3L/830-40-60	16 / 24	2298 / 3260	145 / 136		M3L	>80	3000 / 4000 / 6000
<b>PHOTO-ELECTRIC CELL</b>							
NBM16-24/PEC/830-40-60	16 / 24	2298 / 3260	145 / 136	Photo-Electric Cell		>80	3000 / 4000 / 6000
NBM16-24/PEC/M3L/830-40-60	16 / 24	2298 / 3260	145 / 136	Photo-Electric Cell	M3L	>80	3000 / 4000 / 6000







# BRONX SLIM

IP65 and IK10 rated die-cast aluminium and polycarbonate wall pack for commercial outdoor use



SYSTEMS  
LIGHTING

PRO<sup>e</sup>

7  
SEVEN YEAR  
WARRANTY

IP65

IK10

L80  
100,000

SDCM  
<3

LITHIUM  
M3

APPLICATIONS

- For commercial exterior use on building entrances, perimeters and along walkways

SPECIFICATION

- Die-cast aluminium base with heat sink, painted black
- Hinged, UV stable polycarbonate cover with opal diffuser and black hood
- IP65 and IK10 rated
- M20 tapped hole with IP68 cable gland fitted  
Supplied with M20 blanking plug – use optional

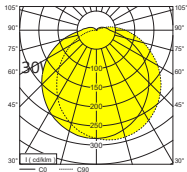
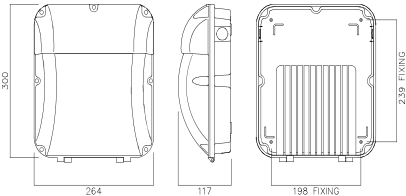
OPTIONS

Emergency

- M3L: Manual test
- STM3L: Self-test
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test
- DAM3L: DALI addressable test

Sensor

- PEC: Photo-Electric Cell for dusk / dawn operation, switching on at 15 lux and off at 45 lux.



KEY  
FEATURES

- ROBUST** – IK10 rated so suitable for areas where impact resistance is required
- SENSORS** – Optional photo-electric cell for dusk to dawn operation
- HINGED COVER** – Allows for easy installation & maintenance

Standard output and manual test emergency (M3L)

ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.w)	SENSOR TYPE	EMERGENCY	CRI	CCT (K)
STANDARD							
NBX30SL/LED/840	30	2490	87			>80	4000
NBX30SL/LED/M3L/840	30	2490	87		M3L	>80	4000
PHOTO-ELECTRIC CELL							
NBX30SL/LED/PEC/840	30	2490	87	Photo-Electric Cell		>80	4000
NBX30SL/LED/PEC/M3L/840	30	2490	87	Photo-Electric Cell	M3L	>80	4000







# REBUS

IP65 rated aluminium bollard



APPLICATIONS

- For commercial exterior use on paths, walkways and the approaches to a building

SPECIFICATION

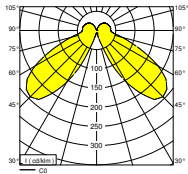
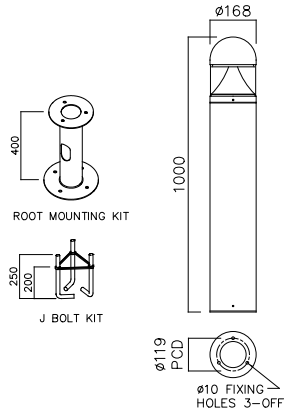
- Extruded aluminium body, pretreated and painted matt black (RAL9005)
- Die-cast aluminium head unit with clear PC cover, LEDs, driver and aluminium reflector
- Head unit pre-wired with 300mm flex and IP65 connector
- Cast aluminium base plate with fixing holes
- IP65 and IK08 rated

OPTIONS

MOUNTING ACCESSORIES

Can be installed using either of two mounting accessories, to be ordered separately:

- Root mounting kit
- J-bolt kit



ORDER CODE	POWER	LUMENS (lm)	EFFICACY (lm/c.W)	CRI	CCT (K)
NRB25/LED/BK/740	26	2220	85	>70	4000

Accessories

ORDER CODE	DESCRIPTION
NRB/JBOLTKIT/12	REBUS J BOLT KIT 12 INCH
NRB/RMKIT	REBUS ROOT MOUNTING KIT



# RENTON NEW

Power and CCT selectable IP66 and IK10 rated aluminium bollard.



## APPLICATIONS

- For commercial exterior use on paths, walkways and the approaches to a building

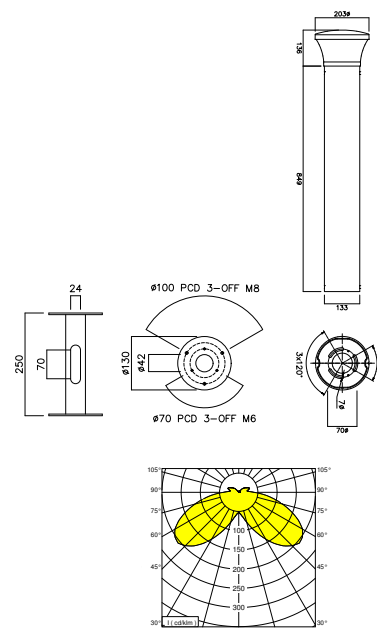
## SPECIFICATION

- Extruded aluminium body, pretreated and painted in a choice of matt grey (RAL9007) or matt black (RAL9017)
- Die-cast aluminium head unit with clear PC cover, LEDs, driver and aluminium reflector
- Head unit supplied with 1m of flex and IP66 cable gland
- CCT and power selection switches inside head unit:
  - CCT: 2700K, 3000K or 4000K
  - Power: 8W, 12W, 19W, 25W
- Supplied with a J bolt mounting kit
- Cast aluminium base plate with fixing holes
- IP66 and IK10 rated

## OPTIONS

### MOUNTING ACCESSORIES

A root mounting kit is available to be purchased separately, as listed below



ORDER CODE	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	CRI	CCT (K)
NRE8-25/GRY/827-30-40	8 / 12 / 19 / 25	830 / 1315 / 2043 / 2725	111	>80	2700 / 3000 / 4000
NRE8-25/BK/827-30-40	8 / 12 / 19 / 25	830 / 1315 / 2043 / 2725	111	>80	2700 / 3000 / 4000

## Accessories

ORDER CODE	DESCRIPTION
NRE/RMKIT	RENTON ROOT MOUNTING KIT





# RECESSED DOWNLIGHTS



130

WESTMINSTER



132

WASHINGTON



134

MONTANA



136

MAUI



140

MIAMI



141

VENUS



142

MERCURY

# WESTMINSTER

Expanded range of low glare IP54 commercial downlights.

## NEW OPTION



### APPLICATIONS

- Corridors and communal areas
- Changing rooms and under-canopy installations

### SPECIFICATION

- Die-cast aluminium bezel, painted white (RAL9003)
- Die-cast aluminium heat-sink and body, painted black
- Semi-specular aluminium reflector
- Polycarbonate opal diffuser, TP(a) rated, deep recessed
- Remote driver with male/female connector for easy installation & maintenance
- 3-pole, loop-in / loop-out piano key terminal block
- 63° beam angle

### OPTIONS

#### Wattages, CCT & cut-out

- Selectable 6-15W, 3000K, 150mm cut-out
- Selectable 6-15W, 4000K, 150mm cut-out
- Selectable 6-18W, 3000K, 200mm cut-out
- Selectable 6-18W, 4000K, 200mm cut-out
- Fixed 12W, 20W & 30W, 4000K, 200mm cut-out

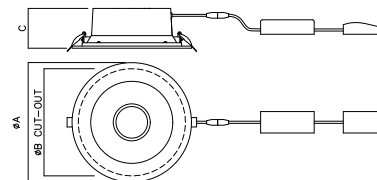
#### Emergency

- For M3, self-test and DALI addressable emergency test, order the conversion pack you need from the list opposite.
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

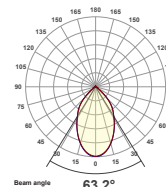
#### Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function - dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

**Mounting disc** - available for use with WESTMINSTER 200mm cut-out, for installation in apertures up to 235mm dia. listed opposite



SIZE	A	B	C
6-15W	170	150	75.5
6-18W	223	200	74
12/20/30W	223	200	74



### KEY FEATURES

**LOW GLARE** - With deep recessed diffuser

**POWER SELECTABLE** - Choice of wattages via dip-switch selection on driver

**CCT CHOICE** - 3000K or 4000K

**SIZE OPTIONS** - 150mm or 200mm diameter cutouts

**EFFICIENT** - Achieves up to 130 luminaire lumens per circuit watt

### SMART WIRELESS CONTROLS



CASAMBI

WESTMINSTER can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details - [technical@nvcuk.com](mailto:technical@nvcuk.com)



# WESTMINSTER

150mm dia. cut-out, multi-wattage in 3000K and 4000K

ORDER CODE	6-15W	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	BEAM ANGLE	CRI	CCT (K)
		DIAMETER	CUT-OUT						
NWM6-15/830	NEW	170	150	6 / 8 / 10 / 12 / 13 / 15	754 / 987 / 1223 / 1452 / 1675 / 1903	up to 126	60°	>80	3000
NWM6-15/840		170	150	6 / 8 / 10 / 12 / 13 / 15	754 / 987 / 1223 / 1452 / 1675 / 1903	up to 126	60°	>80	4000

200mm dia. cut-out, multi-wattage in 3000K and 4000K

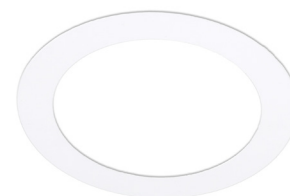
ORDER CODE	6-18W	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	BEAM ANGLE	CRI	CCT (K)
		DIAMETER	CUT-OUT						
NWM6-18/830		223	200	6 / 8 / 10 / 12 / 13 / 15 / 17 / 19	732 / 979 / 1183 / 1418 / 1642 / 1843 / 2051 / 2255	up to 122	60°	>80	3000
NWM6-18/840		223	200	6 / 8 / 10 / 12 / 13 / 15 / 17 / 19	749 / 1001 / 1236 / 1485 / 1733 / 1966 / 2164 / 2390	up to 130	60°	>80	4000

200mm dia. cut-out, single wattage in 4000K

ORDER CODE	FIXED	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	BEAM ANGLE	CRI	CCT (K)
		DIAMETER	CUT-OUT						
NWM12/840		223	200	12	1462	121	60°	>80	4000
NWM20/840		223	200	17	2097	122	60°	>80	4000
NWM30/840		233	200	31	3466	112	60°	>80	4000

## Accessories

ORDER CODE	DESCRIPTION
NWM-NWA/MOUNTING/DISC	Westminster & Washington Mounting Disc for cutouts up to 235mm dia.



## Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO4 For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO4 Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



N/REC/M3/PACK/V2 and  
N/REC/STM3/PACK/V2 - see page 77



N/REC/DAM3/PACK - see page 77

# WASHINGTON

IP54 or IP65 commercial downlight  
with wide beam light distribution



## APPLICATIONS

- Corridors and communal areas
- Changing rooms and under-canopy installations

## SPECIFICATION

- Die-cast aluminium bezel, painted white (RAL9003)
- Die-cast aluminium heat-sink and body, painted black
- Polycarbonate opal diffuser, TP(a) rated,
- Remote driver with male / female connector for easy installation & maintenance
- 3-pole, loop-in / loop-out piano key terminal block
- 103° beam angle

## OPTIONS

### Wattages, CCT & cut-out

- Selectable 6-15W, 3000K, IP54, 110mm cut-out
- Selectable 6-15W, 4000K, IP54, 110mm cut-out
- Selectable 6-18W, 3000K, IP54, 200mm cut-out
- Selectable 6-18W, 4000K, IP54, 200mm cut-out
- Fixed 30W, 4000K, IP54, 200mm cut-out
- Selectable 7-20W, 4000K, IP65, 200mm cut-out

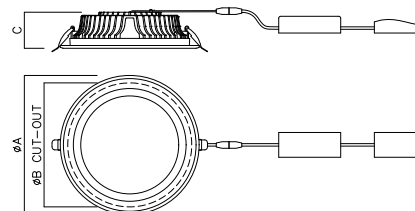
### Emergency

- For M3, self-test and DALI addressable emergency test, order the conversion pack you need from the list opposite.
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

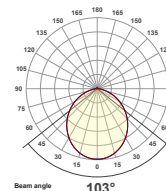
### Dimming

- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function - dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

**Mounting disc** - available for use with WASHINGTON 200mm cut-out, for installation in apertures up to 235mm dia. listed opposite



SIZE	A	B	C
6-15W	130	110	45
6-18W	224	200	58
30W	224	200	58
7-20W	230	200	82



## KEY FEATURES

**POWER SELECTABLE** - Choice of wattages via dip switch selection on driver

**CCT CHOICE** - 3000K or 4000K

**SIZE OPTIONS** - 110mm or 200mm diameter cut-outs

**IP RATING** - IP54 or IP65

**EFFICIENT** - Achieves up to 144 luminaire lumens per circuit watt

## SMART WIRELESS CONTROLS



CASAMBI

WASHINGTON can be supplied with either **HubSense** or **Casambi** smart wireless control built-in.

**Casambi** and **HubSense** use Bluetooth wireless technology to provide comprehensive lighting control, including scene setting, energy saving and addressable emergency testing.

Contact our technical team for details - [technical@nvcuk.com](mailto:technical@nvcuk.com)



# WASHINGTON

110mm dia. cut-out, IP54, multi-wattage in 3000K or 4000K

ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	BEAM ANGLE	CRI	CCT (K)
	DIAMETER	CUT-OUT						
NWA6-15/830	130	110	6 / 8 / 10 / 12 / 14 / 16	732 / 944 / 1151 / 1363 / 1544 / 1727	up to 116	100°	>80	3000
NWA6-15/840	130	110	6 / 8 / 10 / 12 / 14 / 16	752 / 993 / 1176 / 1389 / 1584 / 1774	up to 122	100°	>80	4000

200mm dia. cut-out, IP54, multi-wattage in 3000K or 4000K

	ORDER CODE 6-18W	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	BEAM ANGLE	CRI	CCT (K)
		DIAMETER	CUT-OUT						
	NWA6-18/830	224	200	6 / 8 / 10 / 12 / 13 / 15 / 17 / 19	795 / 1046 / 1279 / 1523 / 1751 / 1995 / 2213 / 2424	up to 131	100°	>80	3000
	NWA6-18/840	224	200	6 / 8 / 10 / 12 / 13 / 15 / 17 / 19	858 / 1133 / 1392 / 1668 / 1910 / 2173 / 2401 / 2643	up to 144	100°	>80	4000

200mm dia. cut-out, IP54, fixed wattage in 4000K

	ORDER CODE 30W FIXED	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	BEAM ANGLE	CRI	CCT (K)
		DIAMETER	CUT-OUT						
	NWA12/840	224	200	12	1675	138	100°	>80	4000
	NWA30/840	224	200	34	4505	130	100°	>80	4000

200mm dia. cut-out, IP65, multi-wattage in 4000K

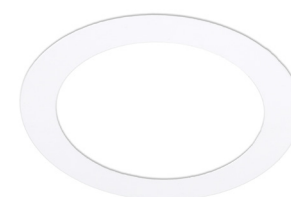
ORDER CODE 7-20W IP65	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	BEAM ANGLE	CRI	CCT (K)
	DIAMETER	CUT-OUT						
NWA7-20/IP65/230/840	230	200	7 / 8 / 10 / 11 / 13 / 15 / 17 / 18	750 / 989 / 1226 / 1462 / 1689 / 1935 / 2150 / 2377	up to 131	100°	>80	4000

## Accessories

ORDER CODE	DESCRIPTION
NWM-NWA/MOUNTING/DISC	Westminster & Washington Mounting Disc for cutouts up to 235mm dia.

## Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO4 For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO4 Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



N/REC/M3/PACK/V2 and  
N/REC/STM3/PACK/V2 - see page 77



N/REC/DAM3/PACK - see page 77

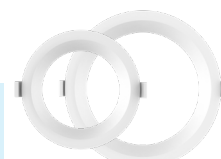
# MONTANA NEW

A low glare downlight, power and CCT selectable, with a deep recessed diffuser and interchangeable bezels.



## Bezels

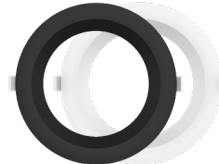
Supplied as standard with a narrow white bezel. Alternative bezels available – see below.



Narrow white bezels, supplied as standard on both sizes of MONTANA



Narrow black bezels, available as accessories for both sizes of MONTANA



Wide bezels, available as accessories for MONTANA 13-17-22W only, for cutouts up to 225mm

## APPLICATIONS

- Offices and meeting rooms
- Display areas, reading rooms and libraries
- Projects requiring UGR<19

## SPECIFICATION

- Die-cast aluminium body, black (RAL9005)
- Die-cast aluminium bezel, white (RAL9016)
- Remote driver with twist/lock connector
- Loop-in/out terminals on driver
- CCT selector switch, 3000K or 4000K
- Deep recessed diffuser and semi-specular reflector for UGR<19
- Bezel, reflector and light engine all detachable and replaceable
  - For bezels, see below
  - For light engines & reflectors, call technical
- 59° beam angle

## OPTIONS

### Diameter and wattage

Available in two sizes, each with 3 selectable wattages:

- 150mm cut-out, 9W, 12W, 15W selectable
- 200mm cut-out, 13W, 17W, 22W selectable

**Emergency** – all maintained 3 hours with lithium (LiFePO<sub>4</sub>) batteries

- For manual test (M3), self-test (STM3) and DALI addressable emergency test (DAM3), please order one of the emergency conversion packs listed below.
- CSDAM3L: Casambi addressable test
- HSDAM3L: HubSense addressable test

### Dimming

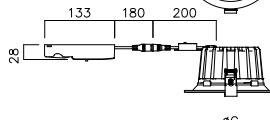
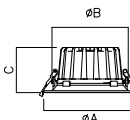
- DD: Digital Dimming - DALI and Switch Dim
- CF: Corridor Function – dim-to-10%
- CS: Casambi smart wireless control
- HS: HubSense smart wireless control

### Bezels

Supplied as standard with a narrow white bezel. Alternative bezels available – see below.

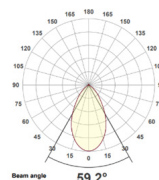
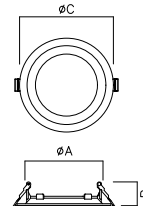
## MONTANA 150mm and 200mm

SIZE	A	B	C
9-12-15W	176	150	86
13-17-22W	226	200	98



## BEZELS

FITTING SIZE	COLOUR	A	B	C
176	WH std, BK opt	150	45	176
226	WH std, BK opt	200	44.5	226
226	WH & BK opt	205	40	250



## 150mm dia. cut-out

ORDER CODE	DIMENSIONS (mm) DIAMETER   CUT-OUT	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	BEAM ANGLE	CRI	CCT (K)
NMT9-12-15/CB3P/830-840	176   150	9-12-15	1278 / 1662 / 2096	Up to 144	60°	>80	3000-4000

## 200mm dia. cut-out

ORDER CODE	DIMENSIONS (mm) DIAMETER   CUT-OUT	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	BEAM ANGLE	CRI	CCT (K)
NMT13-17-22/CB3P/830-840	226   200	13-17-22	1964 / 2629 / 3215	Up to 155	60°	>80	3000-4000

## Bezels

ORDER CODE	DESCRIPTION
NMT/BEZ/BK/9-12-15	Montana Bezel Black for 9-12-15W
NMT/BEZ/BK/13-17-22	Montana Bezel Black for 13-17-22W
NMT/BEZ/WIDE/BK/13-17-22	Montana Wide Bezel Black - Up To 225mm Cutout
NMT/BEZ/WIDE/WH/13-17-22	Montana Wide Bezel White - To 225mm Cutout

## Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO <sub>4</sub> Self Test For Recessed Product Ranges
N/REC/DAM3/PACK	LiFe DALI Addressable M3 Emergency Pack For Recessed Product Ranges



# MONTANA

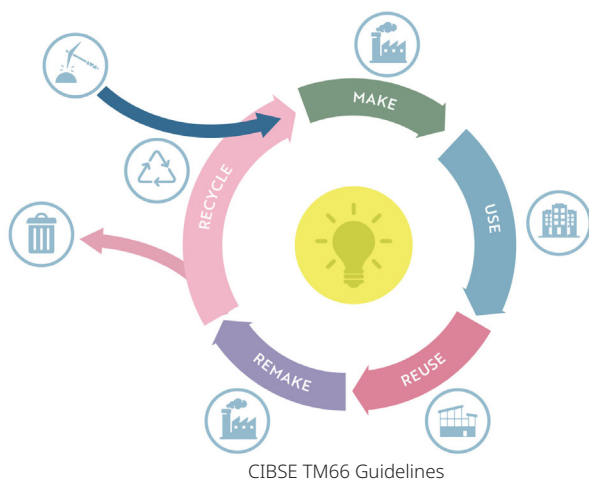
Designed on TM66 principles

MONTANA is designed for easy reuse, remanufacture and recycling.

The light engine, reflector and bezel assembly can be taken apart, replaced as necessary and re-assembled with two screws and a simple twist/lock action.



TM66 is the CIBSE guide to “Creating a Circular Economy in the Lighting Industry”, promoting the need to reuse, remake and (finally) recycle products through the course of their life.



# MAUI

IP44 CCT selectable recessed downlight  
with opal diffuser in 3 sizes



## APPLICATIONS

- Corridors and communal areas
- Changing rooms and toilets

## SPECIFICATION

- Die-cast aluminium body and bezel, painted white (RAL9016)
- Polycarbonate opal diffuser, TP(a) rated
- Back-lit design, with LEDs on a metal core PCB, screw fixed to the aluminium body for excellent heat dissipation
- 110° beam angle
- Remote driver with plug / socket connector for easy installation and (optional) emergency conversion
- 3-way CCT selector switch for 3000K, 4000K and 6000K
- Connector box with 3-pole loop-in / loop-out 1.5mm<sup>2</sup> piano key terminal block



EMERGENCY CONVERSION PACKS  
AVAILABLE SEPARATELY SEE BELOW

## OPTIONS

### Wattage and cut-out:

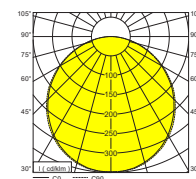
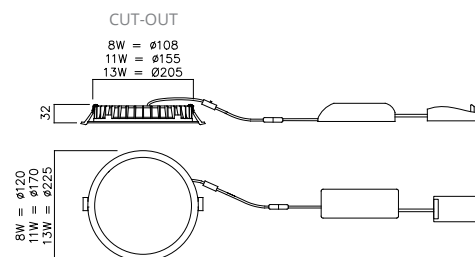
- 8W, 108mm cut-out
- 11W, 155mm cut-out
- 13W, 205mm cut-out

### Emergency

For M3 and self-test, order the emergency conversion packs required from the list below



REMOTE MOUNTED OSRAM OR TRIDONIC DRIVER



ORDER CODE	DIMENSIONS (mm)		POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	DIMMING	CCT (K)
	DIAMETER	CUT-OUT					
NMU8/830-40-60	120	108	8	880	106	>80	3000 / 4000 / 6000
NMU11/830-40-60	170	155	11	1243	108	>80	3000 / 4000 / 6000
NMU13/830-40-60	225	205	13	1422	107	>80	3000 / 4000 / 6000

## Emergency conversion packs

ORDER CODE	DESCRIPTION
N/REC/M3/PACK/V2	M3 Pack V2 LiFePO4 For Recessed Product Ranges
N/REC/STM3/PACK/V2	M3 Pack V2 LiFePO4 Self Test For Recessed Product Ranges





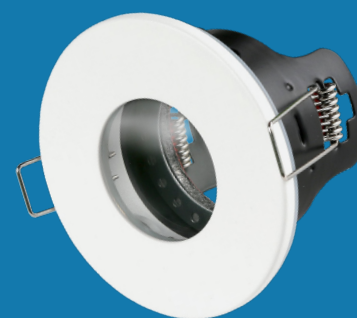


Downlights suitable  
for commercial and  
residential projects

# MIAMI, VENUS & MERCURY



**MIAMI**  
SEE PAGE ??



**VENUS**  
SEE PAGE ??

GU10 or integrated LED	GU10 LAMPHOLDER (NO LAMP)	GU10 LAMPHOLDER (NO LAMP)
Colour selectable	-	-
Wattage & Lumens	-	-
Beam angle	-	-
Fire rated	-	
IP rating	IP20 & IP65	IP65
Cut-out (mm)	72 (IP20) & 68 (IP65)	68
Height (mm)	80 (IP20) & 83 (IP65)	83
Connection	4-POLE IN/OUT PIANO KEY	4-POLE IN/OUT PIANO KEY
Plug / socket for test disconnect	YES	YES
Bezel finish	WHITE	WHITE, BLACK, CHROME, SATIN-CHROME

## GU10 LAMPHOLDER

- Supplied with ceramic GU10 lampholder, excluding lamp
- Accepts lamps 50mm diameter, max 50W
- Choose the lamp colour, beam angle & wattage to suit the project
- At end of life, just change the lamp. No need to change the fitting

## PLUG/SOCKET FOR EASY TESTING

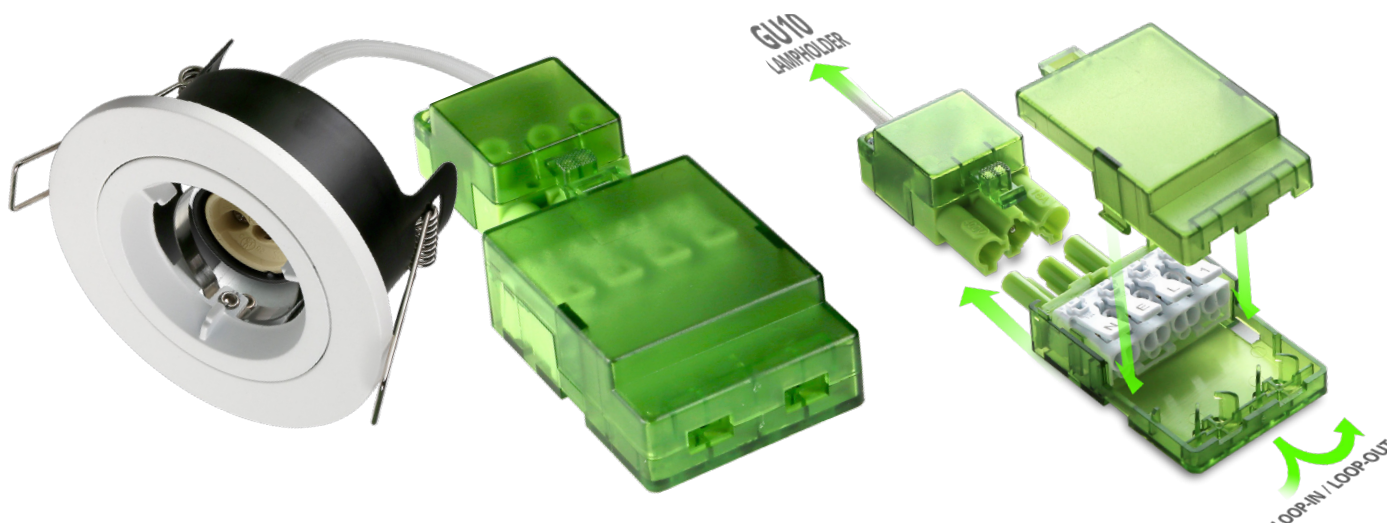
This makes high-voltage testing quicker & easier

- Step 1. Install and make connections using piano key terminals
- Step 2. Insert lamp and check operation
- Step 3. Unplug
- Step 3. Perform high-voltage test. The lamp is disconnected, so it will come to no harm
- Step 4. Re-connect. No skilled labour required

## NO TOOLS, NO JUNCTION BOX, 4-POLES

Tool free connection is fast and convenient

- Piano-key terminals – no screwdriver needed
- Loop-in / loop-out – no junction box needed
- 4-poles – if there are emergency fittings on the same circuit, this gives a convenient place to park the permanent live







**MERCURY**  
SEE PAGE ??



- Packs of 10 available to minimise waste



INTEGRATED LED

YES, 3K / 4K / 6K

6W, 765 LM

40°



IP65

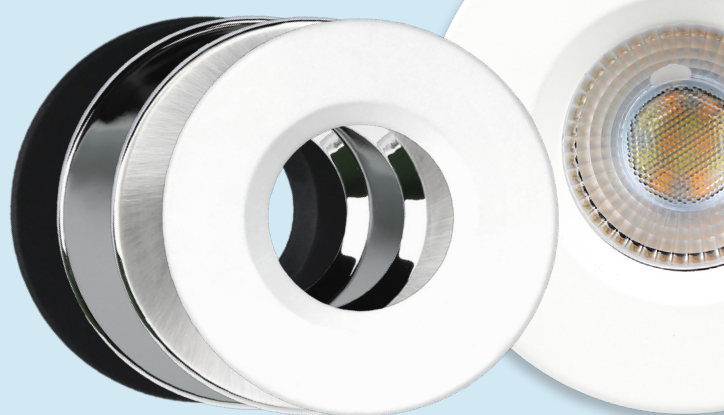
68

32

4-POLE IN/OUT  
PIANO KEY

YES

WHITE, BLACK, CHROME, SATIN-CHROME



VENUS AND MERCURY – CHOICE OF BEZELS AVAILABLE

#### INTEGRAL LED

- 6W LED
- Remote driver included
- Flicker free and mains dimmable
- 40° beam angle, ideal for general lighting applications

#### LOW-PROFILE

- Suitable for shallow voids
- Only 36mm total height
- OK for installation under thermal insulation

#### NO TOOLS, NO JUNCTION BOX, EASY TESTING

- Tool free connection is fast and convenient
- Piano-key terminals – no screwdriver needed
  - Loop-in / loop-out – no junction box needed
  - Plug / socket for easy testing. No risk to driver during high voltage testing



# MIAMI

IP20 or IP65 GU10 downlight



## APPLICATIONS

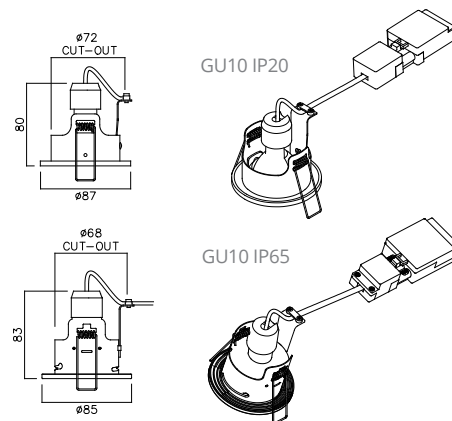
- Care homes
- Student accommodation
- Meeting rooms and corridors

## SPECIFICATION

- Steel body
- Twist & lock white bezel
- Supplied with GU10 lamp-holder, excluding lamp
- Suitable for use with LED lamps with a GU10 base, up to 50mm dia.

## OPTIONS

- IP rating
  - IP20 or IP65
- Single or multi-packs
  - Available singly or in packs of 10 to reduce waste



## KEY FEATURES

- EASY INSTALL** – Piano key terminals allowing for toolless wiring & loop in / out
- 4TH POLE** – Added pole on terminal block to allow parking of unswitched live
- SUSTAINABLE** – Trade pack of 10 to reduce packaging waste

## Single

ORDER CODE SINGLE	DIMENSIONS (mm)			BODY COLOUR	IP RATING
	DIAMETER	CUT-OUT	HEIGHT		
NMA/GU10/WH/IP20/CB4P	87	72	80	WHITE	IP20
NMA/GU10/WH/IP65/CB4P	85	68	83	WHITE	IP65

## Pack of 10

ORDER CODE PACK OF 10	DIMENSIONS (mm)			BODY COLOUR	IP RATING
	DIAMETER	CUT-OUT	HEIGHT		
NMA/GU10/WH/IP20/CB4P/10	87	72	80	WHITE	IP20
NMA/GU10/WH/IP65/CB4P/10	85	68	83	WHITE	IP65



# VENUS

IP65, fire-rated GU10 downlight



BLACK / CHROME / SATIN-CHROME / WHITE  
CHOICE OF BEZELS AVAILABLE

## APPLICATIONS

- Care homes
- Student accommodation
- Residential projects

## SPECIFICATION

- Steel body
- Twist & lock bezel in a choice of 4 finishes
- Fire rated – 30, 60 & 90 minutes
- Supplied with GU10 lamp-holder; excluding lamp
- Suitable for use with GU10 LED lamps up to 50mm dia.

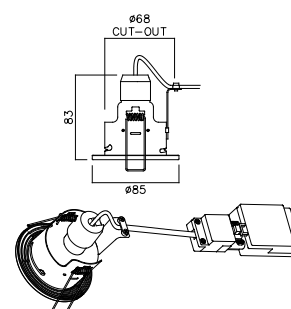
## OPTIONS

### Bezels

- Supplied with your choice of white, black, chrome, or satin chrome bezel
- Spare bezels are available

### Single or multi-packs

- Available singly or in packs of 10 to reduce waste



## KEY FEATURES

**FIRE RATED** – Certified to 30, 60 & 90 minutes

**EASY INSTALL** – Piano key terminals allowing for toolless wiring & loop in / out

**4TH POLE** – Added pole on terminal block to allow parking of unswitched live

**SUSTAINABLE** – Trade pack of 10 to reduce packaging waste

## Single

ORDER CODE SINGLE	DIMENSIONS (mm)			BODY COLOUR	IP RATING
	DIAMETER	CUT-OUT	HEIGHT		
NVS/GU10/WH	85	68	83	WHITE	IP65
NVS/GU10/BK	85	68	83	BLACK	IP65
NVS/GU10/CH	85	68	83	CHROME	IP65
NVS/GU10/SCH	85	68	83	SATIN CHROME	IP65

## Pack of 10

ORDER CODE PACK OF 10	DIMENSIONS (mm)			BODY COLOUR	IP RATING
	DIAMETER	CUT-OUT	HEIGHT		
NVS/GU10/WH/10	85	68	83	WHITE	IP65
NVS/GU10/BK/10	85	68	83	BLACK	IP65
NVS/GU10/CH/10	85??	68	83	CHROME	IP65
NVS/GU10/SCH/10	85??	68	83	SATIN CHROME	IP65

## Bezels

ORDER CODE	DIAMETER (mm)	BODY COLOUR	PACK QUANTITY
NVS/BK/RO/BEZEL/10	85	BLACK	10
NVS/CH/RO/BEZEL/10	85	CHROME	10
NVS/SCH/RO/BEZEL/10	85	SATIN CHROME	10

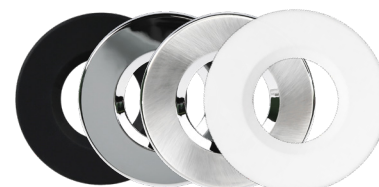
# MERCURY

IP65, fire-rated integrated LED downlight

**NEW FEATURE**  
NOW WITH **4 POLE**  
TERMINAL BLOCK



CCT SELECTION SWITCH  
UNDER BEZEL – ACCESSIBLE  
FROM THE FRONT



BLACK / CHROME / SATIN-CHROME / WHITE  
CHOICE OF BEZELS AVAILABLE

## APPLICATIONS

- Care homes
- Student accommodation
- Residential projects

## SPECIFICATION

- Steel body
- Supplied with white twist & lock polycarbonate bezel
- Supplied with LEDs and driver
- Fire rated – 30, 60 & 90 minutes
- CCT selectable – 3000K, 4000K or 6000K
- Aluminium reflector giving 40° beam angle

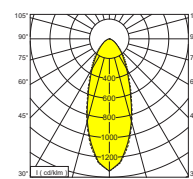
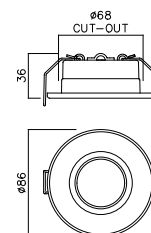
## OPTIONS

### Bezel finishes

- Supplied with a white bezel
- Alternative bezels in black, chrome and satin chrome available in packs of 10

### Single or multi-packs

- Available singly or in packs of 10 to reduce waste disposal costs



## KEY FEATURES

**FIRE RATED** – Certified to 30, 60 & 90 minutes

**CCT SELECTABLE** – Choice of 3000K, 4000K & 6000K via front mounted switch

**4th POLE** – Extra pole on terminal block to allow parking of unswitched live

**SUSTAINABLE** – Trade pack of 10 to reduce packaging waste

## Single

ORDER CODE SINGLE	DIMENSIONS (mm)			BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.w)	CRI	CCT (K)	IP RATING
	DIAMETER	CUT-OUT	HEIGHT							
NMR/MD/WH/4P/830-40-60	86	68	36	WHITE	6	662 / 765 / 687	up to 130	>80	3000-4000-6000K	IP65

## Pack of 10

ORDER CODE PACK OF 10	DIMENSIONS (mm)			BODY COLOUR	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.w)	CRI	CCT (K)	IP RATING
	DIAMETER	CUT-OUT	HEIGHT							
NMR/MD/WH/4P/830-40-60/10	86	68	36	WHITE	6	662 / 765 / 687	up to 130	>80	3000-4000-6000K	IP65

## Bezels

ORDER CODE	DIAMETER (mm)	BODY COLOUR	PACK QUANTITY
NMR/BK/RO/BEZEL/10	85	BLACK	10
NMR/CH/RO/BEZEL/10	85	CHROME	10
NMR/SCH/RO/BEZEL/10	85	SATIN CHROME	10











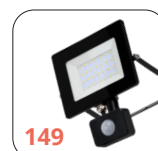
# FLOODLIGHTING



LYNX PRO



COUGAR



PUMA



ODESSA



# LYNX PRO NEW

IP66 rated asymmetric aluminium floodlight for coastal & harsh environments



## APPLICATIONS

- Building facades and sports grounds
- Industrial and coastal areas
- Areas subject to high pollution levels
- Rated ambient temperature range -30°C - +45°C

## SPECIFICATION

- Aluminium die-cast body, painted black (RAL9017)
- Adjustable steel mounting bracket, painted black (RAL9017)
- Body and bracket corrosion treated to ISO 12944 class C4 (high).
- 4mm toughened glass front cover
- LEDs, individually lensed, with aluminium heat sink
- White polycarbonate reflector
- IP66 cable gland supplied

## OPTIONS

Size and wattage. Available in 3 sizes

- Small – 50W
- Medium – power selectable, 75W, 112W, 150W
- Large – power selectable, 150W, 225W, 300W

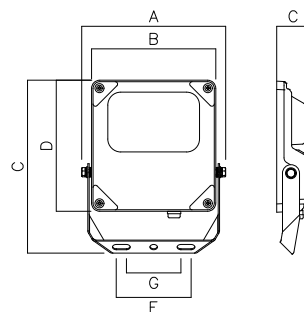


## Photo-Electric Cell

- PE1: Photo-electric cell for dusk/dawn control switching on at 70 lux, off at 105 lux

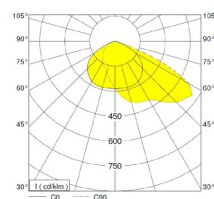
## Colour temperature

Available with a choice of 2700K or 4000K



SIZE	A	B	C	D	E	F	G
50W	211	182	254	193	48	110	80
150W	263	232	318	252	53	140	100
300W	343	302	403	352	56	205	155

TYPICAL LYNX  
LIGHT DISTRIBUTION  
DIAGRAM



## KEY FEATURES

**HIGH CORROSION RESISTANCE** – tested to ISO 12944 C4 and 1,000 hours salt spray test

**ASSYMETRIC DISTRIBUTION** – Suitable for facades and sports facilities

**CHOICE OF CCT** – 2700K or 4000K, especially suitable for facades

**WIDE OUTPUT RANGE** – From 7,987 lm to 46,934 lm



## NEW LYNX PRO

### Small



Fixed output  
**50W**

### Medium



Power selectable  
**75W, 112W, 150W**

### Large



Power selectable  
**150W, 225W, 300W**

LYNX PRO is corrosion resistant to ISO 12944 C4 and it has been 1,000 hour salt-spray tested, so it is made to withstand coastal conditions and harsh environments



Individually lensed LEDs ensure accurate light distribution with minimum spill.

### 2700K

ORDER CODE	WEIGHT (kg)	WINDAGE (m²)	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NLX/PRO/50/727	1.2	0.05	50	7308	142	-	>70	2700
NLX/PRO/75-112-150/727	2.2	0.08	75 / 112 / 150	11806 / 17205 / 21130	154 / 152 / 140	-	>70	2700
NLX/PRO/150-225-300/727	4	0.14	150 / 225 / 300	24401 / 34307 / 42944	162 / 152 / 142	-	>70	2700

### 4000K

ORDER CODE	WEIGHT (kg)	WINDAGE (m²)	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NLX/PRO/50/740	1.2	0.05	50	7987	155	-	>70	4000
NLX/PRO/75-112-150/740	2.2	0.08	75 / 112 / 150	12903 / 18804 / 23093	168 / 166 / 153	-	>70	4000
NLX/PRO/150-225-300/740	4	0.14	150 / 225 / 300	26668 / 37495 / 46934	177 / 166 / 155	-	>70	4000

### 2700K Photo-Electric Cell

ORDER CODE	WEIGHT (kg)	WINDAGE (m²)	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NLX/PRO/75-112-150/PE1/727	2.2	0.08	75 / 112 / 150	11806 / 17205 / 21130	154 / 152 / 140	Photo-Electric Cell	>70	2700
NLX/PRO/150-225-300/PE1/727	4	0.14	150 / 225 / 300	24401 / 34307 / 42944	162 / 152 / 142	Photo-Electric Cell	>70	2700

### 4000K Photo-Electric Cell

ORDER CODE	WEIGHT (kg)	WINDAGE (m²)	POWER (W)	LUMENS (lm)	EFFICACY (l.lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NLX/PRO/75-112-150/PE1/740	2.2	0.08	75 / 112 / 150	12903 / 18804 / 23093	168 / 166 / 153	Photo-Electric Cell	>70	4000
NLX/PRO/150-225-300/PE1/740	4	0.14	150 / 225 / 300	26668 / 37495 / 46934	177 / 166 / 155	Photo-Electric Cell	>70	4000

# COUGAR

IP65 rated aluminium die-cast asymmetric floodlight



## APPLICATIONS

- Building facades, sports facilities, industrial premises and general area illumination

## SPECIFICATION

- Aluminium die-cast body enclosure with a fine texture black paint finish (RAL9017)
- 4mm toughened glass front panel
- Pre-wired with 1.5m H05RN-F 3x1 mm<sup>2</sup> flex

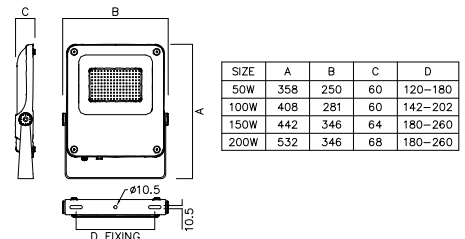
## OPTIONS

### Wattage

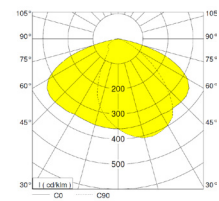
- Choice of 4 wattages: 50W, 100W, 150W, and 200W

### Photo-Electric Cell

- PEC: All versions available with a PE cell for dusk to dawn control, switching on at 15 lux, off at 45 lux



TYPICAL COUGAR  
LIGHT DISTRIBUTION  
DIAGRAM



ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NCU50/740	3.2	0.05	50	7012	137		>70	4000
NCU100/740	4.0	0.10	100	10850	110		>70	4000
NCU150/740	5.6	0.11	150	16420	108		>70	4000
NCU200/740	7.85	0.14	200	23050	115		>70	4000

## Photo-Electric Cell (PEC)

ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NCU50/PEC/740	3.2	0.05	50	7012	137	Photo-Electric Cell	>70	4000
NCU100/PEC/740	4.0	0.10	100	10850	110	Photo-Electric Cell	>70	4000
NCU150/PEC/740	5.6	0.11	150	16420	108	Photo-Electric Cell	>70	4000
NCU200/PEC/740	7.85	0.14	200	23050	115	Photo-Electric Cell	>70	4000



# PUMA

IP65 rated aluminium die-cast symmetric floodlight with optional PIR



## APPLICATIONS

- Illumination of entrances, paths and perimeters in light commercial projects
- Security applications

## SPECIFICATION

- Aluminium die-cast body painted black
- 4mm toughened glass front panel
- Pre-wired with 1m H05RN-F 3x1mm<sup>2</sup> flex

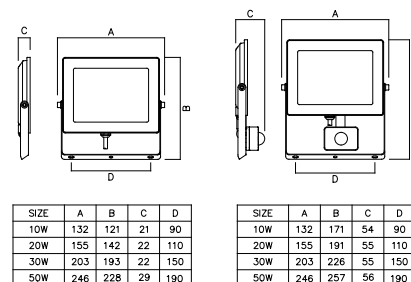
## OPTIONS

### Wattage

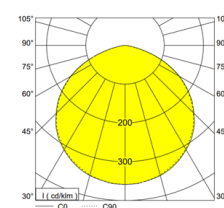
- Choice of 4 wattages: 10W, 20W, 30W, 50W

### Sensor

- PIR: Available with a passive infra-red sensor (IP54 rated) fitted, adjustable for:
  - o Time delay: 3 seconds – 8 minutes
  - o Sensitivity: 4-8m
  - o Lux: 5-2,000 lux



TYPICAL PUMA  
LIGHT DISTRIBUTION  
DIAGRAM



ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	SENSOR TYPE	CRI	CCT (K)
<b>STANDARD</b>								
NPM10/BK/840	0.59	0.014	10	1062	101		>80	4000
NPM20/BK/840	0.99	0.022	20	1984	98		>80	4000
NPM30/BK/840	1.31	0.031	31	3097	101		>80	4000
NPM50/BK/840	1.93	0.056	51	5623	111		>80	4000
<b>PIR</b>								
NPM10/BK/PIR/840	0.59	0.014	10	1062	101	PIR	>80	4000
NPM20/BK/PIR/840	0.99	0.022	20	1984	98	PIR	>80	4000
NPM30/BK/PIR/840	1.31	0.031	31	3097	101	PIR	>80	4000
NPM50/BK/PIR/840	1.93	0.056	51	5623	111	PIR	>80	4000

# ODESSA

Premium IP66 rated aluminium die-cast symmetrical floodlight with a built-in sensor option



APPLICATIONS

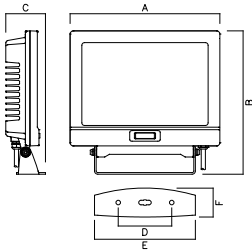
- Security and amenity lighting on smaller commercial and residential projects

SPECIFICATION

- Aluminium die-cast body with a fine texture black paint finish
- 3mm frosted and toughened glass front panel
- Pre-wired with 1m H05RN-F 3x1mm² flex
- Steel stirrup mounting bracket secured on stainless steel screws

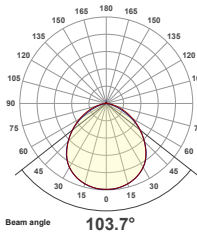
OPTIONS

- Wattage**
- Choice of 4 wattages: 10W, 20W, 30W, 50W
- Sensor**
- PIR-PEC: available with a combined presence (PIR) and Photo-Electric Cell (PEC) fitted. PIR/PEC variants all supplied complete with remote control handset (battery included)
- Handset**
- Supplied as standard with PIR/PEC variants. Also available separately as a spare.



SIZE	A	B	C	D	E	F
10W	120	125	40	30	52	28
20W	150	150	42	30	52	28
30W	180	178	46	55	82	34
50W	250	235	63	70	117	38

TYPICAL ODESSA  
LIGHT DISTRIBUTION  
DIAGRAM



KEY  
FEATURES

- SENSOR** – Built into product to achieve full IP66 rating
- SENSOR FUNCTIONS** – PIR for sensing movement or PE Cell for dusk to dawn operation
- QUALITY FINISH** – High quality aluminium body housing





**ADJUSTABLE MOUNTING BRACKET**  
Quick and easy to install without the need to remove the bracket.

**OPTIONAL BUILT-IN PIR AND PHOTOCELL.** Neat, tidy and protected from dirt and impact. Range up to 8m. (Photocell mode for ON/OFF control only).

**STAINLESS-STEEL**  
Cable gland.

## REMOTE HANDSET

### EASY SET-UP FOR PRESENCE AND LUX SENSING FUNCTIONS

**ON / PIR sensor.**  
Puts ODESSA under PIR control. It will turn on when motion is detected and off again when there is no more motion and the delay time has expired.

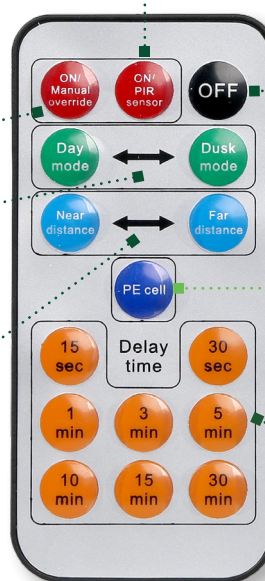
**ON / Manual override.** Turns ODESSA on without any PIR control.

#### LUX SENSING

- Day Mode** - The light will always switch on when presence is detected.
- Dusk Mode** - The light will only come on when presence is detected AND the ambient light level is <60 lux.

#### SENSITIVITY

- There are two settings:
- Near distance** - only switches on if movement is detected close to the fitting.
  - Far distance** - switches on in response to movement close or further from the fitting.



### DUSK / DAWN OPERATION

**PHOTO-ELECTRIC CELL**  
Press for dusk / dawn operation only

**DELAY TIME** If the light is on because it has been triggered by the PIR it will stay on for the delay time and then switch off if no further movement is detected.

ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NOD/V2/10/BK/840	0.45	0.02	10	1397	139		>80	4000
NOD/V2/20/BK/840	0.7	0.03	21	2880	135		>80	4000
NOD/V2/30/BK/840	0.9	0.04	31	4141	132		>80	4000
NOD/V2/50/BK/840	1.9	0.07	47	6788	143		>80	4000
<b>PIR/PEC</b>								
NOD/V2/10/BK/PIR-PEC/840	0.45	0.02	10	1397	139	PIR / PEC	>80	4000
NOD/V2/20/BK/PIR-PEC/840	0.7	0.03	21	2880	135	PIR / PEC	>80	4000
NOD/V2/30/BK/PIR-PEC/840	0.9	0.04	31	4141	132	PIR / PEC	>80	4000
NOD/V2/50/BK/PIR-PEC/840	1.9	0.07	47	6788	143	PIR / PEC	>80	4000

## Accessories

ORDER CODE	DESCRIPTION
NOD/V2/HS/PIR-PEC	Odessa Remote Handset for PIR+PEC c/w Battery







# STREET LIGHTING & POST-TOPS



154

BELFRY PRO



156

ALBERTA



157

COLUMBIA



158

JASPER



159

FREMONT



160

EDMONTON



# BELFRY PRO

IP65 aluminium die-cast street light, suitable for coastal areas and harsh environments

## NEW OPTIONS



**PHILIPS DRIVER  
AND LEDs**

### APPLICATIONS

- Car parks and private roads
- Areas subject to salt spray and significant pollution

### SPECIFICATION

- High purity die-cast aluminium body, painted grey (RAL9007)
- Zinc-rich epoxy powder coat finish provides corrosion resistance to ISO12944 class C4 (high).
- 76-60mm spigot entry, for vertical or horizontal mounting
- Adjustable tilt angle, +/-15°, with built-in spirit level
- Pre-wired with 500mm H07RN-F 3x1.5mm<sup>2</sup> flex
- Toolless latch for access to IP65 rated gear compartment with isolating terminal block
- Philips Xitanium Xtreme driver, 100,000 hours rated
- Built-in surge protection 6kV - 10kV
- Light distribution:
  - o Upward 0.00%
  - o Downward 100.00%

### OPTIONS

#### Photo-Electric Cell

- PE1 for dusk dawn control, switching on at 70 lux and off at 105 lux.

#### Colour temperature (CCT)

- 2700K or 4000K

#### Spigot entry

- Fitted as standard with 76-60mm mounting collar
- 60-34mm by addition of a mounting collar to be ordered separately, as listed opposite.

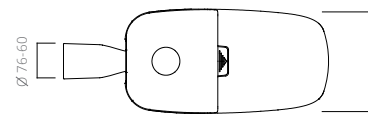


BELFRY PRO WITH  
PHOTO-CELL FITTED

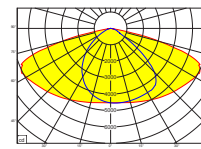
23W-75W = 600 / 85W-145W = 732



23W-75W = 95  
85W-145W = 102



23W-75W = 230  
85W-145W = 306



BELFRY PRO LIGHT  
DISTRIBUTION DIAGRAM

## KEY FEATURES

**HIGH CORROSION RESISTANCE** – ISO12944 C4 (high) classification

**OUTPUT OPTIONS** – Wide choice of lumen packages available

**100,000 HOUR RATED** – Philips long life driver & LEDs

**EFFICIENT** – Up to 165 luminaire lumens per circuit watt

**WILDLIFE FRIENDLY** – With zero uplight, CCT of 2700K and dusk/dawn control  
BELFRY PRO is suitable for projects requiring dark sky lighting



# BELFRY PRO

**SAFETY CUT-OUT** - Opening the cover automatically isolates the electrical supply

**HIGH-PURITY ALUMINIUM** - die-cast housing, pre-coated with a zinc rich epoxy coat and a final coat of corrosion resistant RAL9007 grey paint

**TOOL-FREE ACCESS** - a simple press-to-release catch gives tool-free access to the driver and terminal compartment, while maintaining its IP65 rating

**BREATHER VALVE FITTED** - provides pressure equalisation for a reliable, long-term IP65 rating and condensation reduction

**BUILT-IN SPIRIT LEVEL** - spirit level assists with accurate positioning to facilitate correct light distribution

**PHILIPS XITANIUM XTREME DRIVER** - 100,000 hours rated



## 2700K NEW

ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	SENSOR TYPE	CRI	CCT (K)
<b>SMALL BODY 2700K</b>								
NBF23/PRO/827	5.2	0.14	23	3382	144		>80	2700
NBF30/PRO/827	5.2	0.14	30	4500	149		>80	2700
NBF37/PRO/827	5.2	0.14	37	5597	151		>80	2700
NBF45/PRO/827	5.2	0.14	45	6752	152		>80	2700
NBF50/PRO/827	5.2	0.14	51	7749	151		>80	2700
NBF60/PRO/827	5.2	0.14	59	8845	150		>80	2700
NBF67/PRO/827	5.2	0.14	67	9958	149		>80	2700
NBF75/PRO/827	5.2	0.14	75	10979	147		>80	2700
<b>LARGE BODY 2700K</b>								
NBF85/PRO/827	7.2	0.22	86	12976	152		>80	2700
NBF100/PRO/827	7.2	0.22	100	15223	153		>80	2700
NBF114/PRO/827	7.2	0.22	114	17365	150		>80	2700
NBF130/PRO/827	7.2	0.22	129	19393	150		>80	2700
NBF145/PRO/827	7.2	0.22	145	21429	148		>80	2700

## 4000K

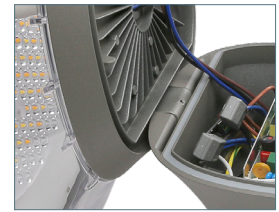
ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	SENSOR TYPE	CRI	CCT (K)
<b>SMALL BODY 4000K</b>								
NBF23/PRO/840	5.2	0.14	23	3656	156		>80	4000
NBF30/PRO/840	5.2	0.14	30	4865	161		>80	4000
NBF37/PRO/840	5.2	0.14	37	6051	163		>80	4000
NBF45/PRO/840	5.2	0.14	45	7299	164		>80	4000
NBF50/PRO/840	5.2	0.14	51	8377	163		>80	4000
NBF60/PRO/840	5.2	0.14	59	9562	162		>80	4000
NBF67/PRO/840	5.2	0.14	67	10765	161		>80	4000
NBF75/PRO/840	5.2	0.14	75	11869	159		>80	4000
<b>LARGE BODY 4000K</b>								
NBF85/PRO/840	7.2	0.22	86	14028	164		>80	4000
NBF100/PRO/840	7.2	0.22	100	16457	165		>80	4000
NBF114/PRO/840	7.2	0.22	114	18773	162		>80	4000
NBF130/PRO/840	7.2	0.22	129	20965	162		>80	4000
NBF145/PRO/840	7.2	0.22	145	23167	160		>80	4000

## Accessories

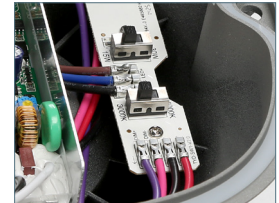
ORDER CODE	DESCRIPTION
NBF/PRO/COLLAR/60-34MM	Belfry Pro Mounting Collar c/w Bush To Suit 60-34mm Fix

# ALBERTA NEW

Stylish IP65 power and CCT selectable post-top fitting



HINGED COVER



POWER AND CCT SELECTABLE

## APPLICATIONS

- Car parks
- Parks and gardens

## SPECIFICATION

- Die-cast aluminium base and top cover
- Base and top finished with anti-corrosion matt paint, grey (RAL9007) or black (RAL9017)
- Clear polycarbonate main cover
- Pre-wired with 6m of 1,5mm<sup>2</sup> 3 core flex and IP66 cable gland
- Surge protection device fitted, 10kV common & differential modes
- For 60mm or 76mm spigot entry. Supplied with a removable 60mm collar fitted.
- Power selectable, 15W and 30W
- CCT selectable, 3000K and 4000K

## OPTIONS

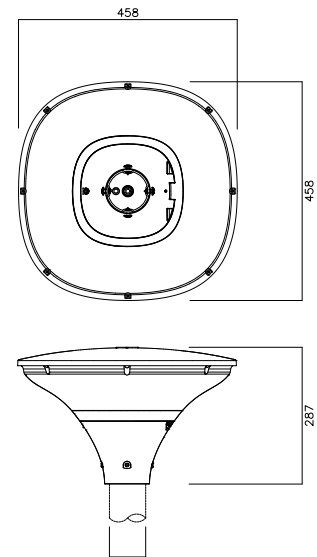
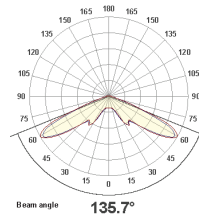
### Photo-Electric Cell

- PE1: supplied with NEMA socket located centrally on the top cover and a compatible PE cell for dusk/dawn control, switching on at 10 lux and off at 80 lux

### Paint finish

- Grey, GRY, RAL9007
- Black, BK, RAL9017

ALBERTA LIGHT DISTRIBUTION DIAGRAM



DIA 76 / 60 FIXING OPTIONS

ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NAB15-30/GRY/830-840	7	0.34	15 / 30	1949 / 3948	133 / 139		>80	3000 / 4000
NAB15-30/BK/830-840	7	0.34	15 / 30	1949 / 3948	133 / 139		>80	3000 / 4000
<b>PHOTO-ELECTRIC CELL</b>								
NAB15-30/GRY/PE1/830-840	7	0.34	15 / 30	1949 / 3948	133 / 139	Photo-Electric Cell	>80	3000 / 4000
NAB15-30/BK/PE1/830-840	7	0.34	15 / 30	1949 / 3948	133 / 139	Photo-Electric Cell	>80	3000-4000



# COLUMBIA NEW

Stylish IP65 power and CCT selectable post-top fitting



## APPLICATIONS

- Car parks
- Parks and gardens

## SPECIFICATION

- Die-cast aluminium base and top cover
- Base and top finished with anti-corrosion matt paint, grey (RAL9007) or black (RAL9017)
- Clear polycarbonate main cover
- Pre-wired with 6m of 1,5mm<sup>2</sup> 3 core flex
- Surge protection device fitted, 10kV common & differential modes
- For 60mm or 76mm spigot entry. Supplied with a 60mm removable collar fitted.
- Power selectable, 20W, 30W and 40W
- CCT selectable, 2700K, 3000K and 4000K

## OPTIONS

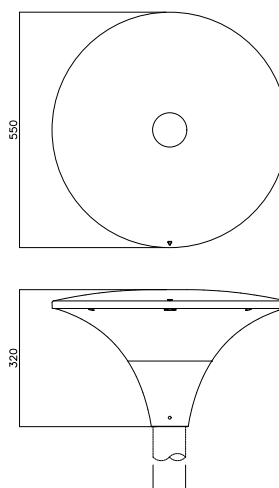
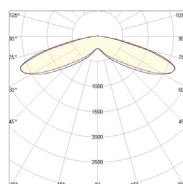
### Photo-Electric Cell

- PE1: supplied with NEMA socket located centrally on the top cover and a compatible PE cell for dusk/dawn control, switching on at 10 lux and off at 80 lux

### Paint finish

- Grey, GRY, RAL9007
- Black, BK, RAL9017

COLUMBIA LIGHT DISTRIBUTION DIAGRAM



DIA 76 / 60 FIXING OPTIONS

ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NCM20-30-40/GRY/827-30-40	7	0.34	20 / 30 / 40	2626 / 4043 / 5192	132 / 129 / 129		>80	2700 / 3000 / 4000
NCM20-30-40/BK/827-30-40	7	0.34	20 / 30 / 40	2626 / 4043 / 5192	132 / 129 / 129		>80	2700 / 3000 / 4000
PHOTO-ELECTRIC CELL								
NCM20-30-40/GRY/PE1/827-30-40	7	0.34	20 / 30 / 40	2626 / 4043 / 5192	132 / 129 / 129	Photo-Electric Cell	>80	2700 / 3000 / 4000
NCM20-30-40/BK/PE1/827-30-40	7	0.34	20 / 30 / 40	2626 / 4043 / 5192	132 / 129 / 129	Photo-Electric Cell	>80	2700 / 3000 / 4000

# JASPER

IP65 decorative  
post-top fitting



## APPLICATIONS

- Car parks
- Parks and gardens

## SPECIFICATION

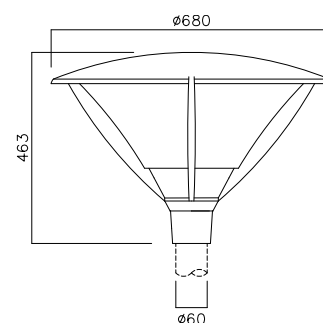
- Die-cast aluminium base and top cover
- Base and top finished with anti-corrosion matt paint, grey (RAL 9007)
- UV stable clear polycarbonate controller
- Pre-wired with 300mm of 1,5mm<sup>2</sup> 3 core H05RN-F flex. IP65 gland supplied
- Surge protection device fitted, 3kV rated

## OPTIONS

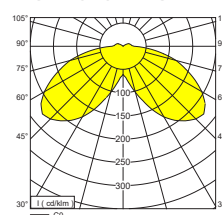
### Photo-Electric Cell

- PE1, for dusk dawn control, switching on at 35 lux and off at 52 lux

**76-60mm spigot reducer** available, to be ordered separately, as listed below



JASPER LIGHT  
DISTRIBUTION DIAGRAM



ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NJS50/LED/740	7	0.34	35	3380	96		>70	4000
NJS50/LED/PE1/740	7	0.34	35	3380	96	Photo-Electric Cell	>70	4000

## Accessories

ORDER CODE	DESCRIPTION
NSR/76-60/EXT	Spigot Reducer 76-60mm External



SPIGOT REDUCER  
76-60MM



# FREMONT

IP65 decorative  
post-top fitting



## APPLICATIONS

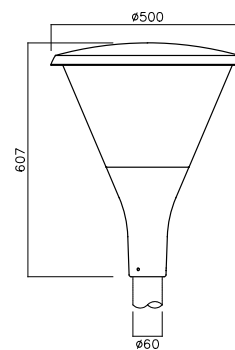
- Car parks
- Parks and gardens

## SPECIFICATION

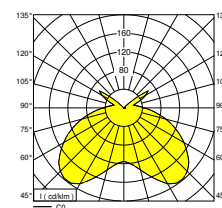
- Die-cast aluminium base and top cover
- Base and top finished with anti-corrosion matt paint, grey (RAL 9007)
- UV stable clear polycarbonate controller
- Pre-wired with 500mm of 1,0mm<sup>2</sup> 3 core H05RN-F flex. IP68 gland supplied
- Surge protection device fitted, 3kV rated
- For 60mm spigot entry

## OPTIONS

**76-60mm spigot reducer** available, to be ordered separately, as listed below



FREMONT LIGHT  
DISTRIBUTION DIAGRAM



ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (l.m/c.W)	CRI	CCT (K)
NFM40/840	7.2	0.25	31	3302	107	>80	4000

## Accessories

ORDER CODE	DESCRIPTION
NSR/76-60/EXT	Spigot Reducer 76-60mm External



SPIGOT REDUCER  
76-60MM

# EDMONTON

IP65 globe  
post-top fitting



AVAILABLE WITH PE CELL FITTED



## APPLICATIONS

- Car parks
- Parks and gardens

## SPECIFICATION

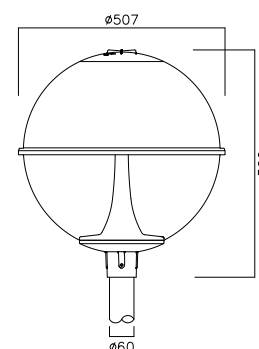
- Steel and aluminium base and upper hemisphere, painted black (RAL 9005)
- UV stable clear polycarbonate lower hemisphere
- Pre-wired with 300mm of 1,0mm<sup>2</sup> 3 core H05RN-F flex. IP65 gland fitted.
- Surge protection device fitted, 3kV rated
- For 60mm spigot entry

## OPTIONS

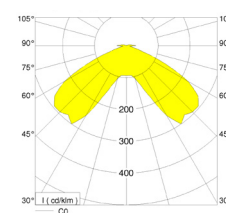
### Photo-Electric Cell

- PE1, for dusk down control, switching on at 35 lux and off at 52 lux

**76-60mm spigot reducer** available, to be ordered separately, as listed below



EDMONTON LIGHT  
DISTRIBUTION DIAGRAM



ORDER CODE	WEIGHT (kg)	WINDAGE (m <sup>2</sup> )	POWER (W)	LUMENS (lm)	EFFICACY (lm/c.W)	SENSOR TYPE	CRI	CCT (K)
NED50/BK/740	8.8	0.28	50	6700	126		>70	4000
NED50/BK/PE1/740	8.8	0.28	50	6700	126	Photo-Electric Cell	>70	4000

## Accessories

ORDER CODE	DESCRIPTION
NSR/76-60/EXT	Spigot Reducer 76-60mm External



SPIGOT REDUCER  
76-60MM











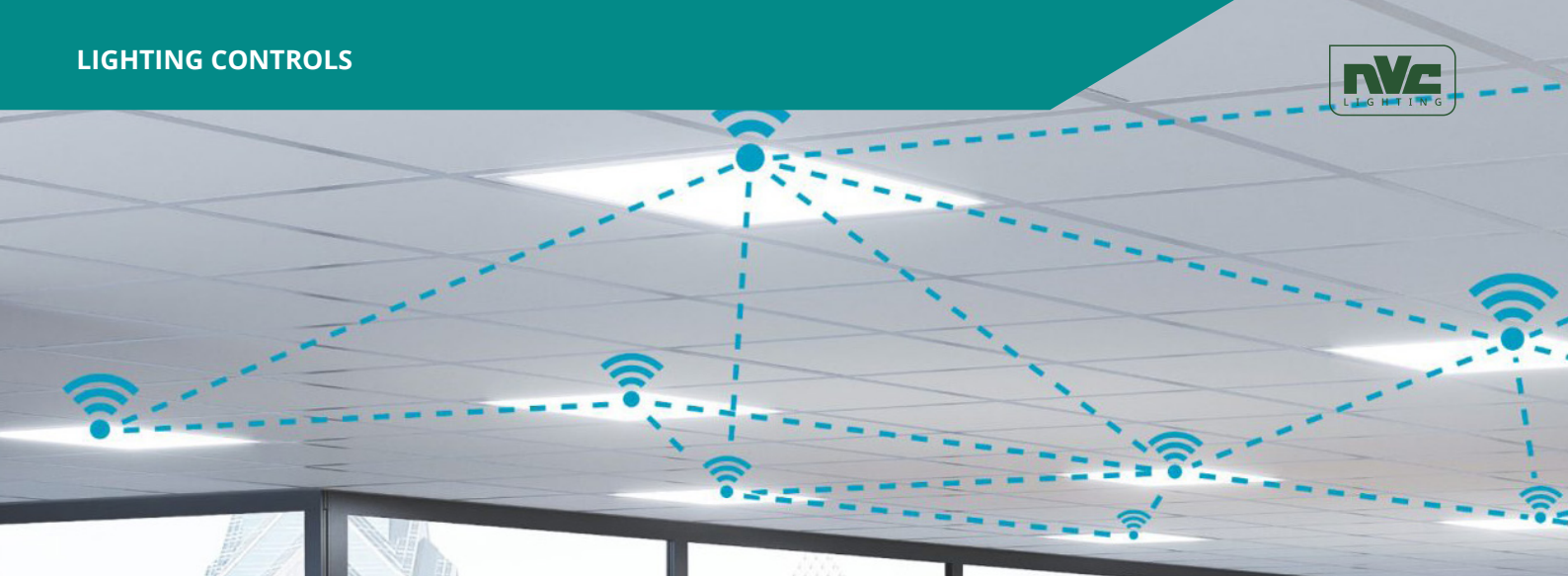
# LIGHTING CONTROLS



WIRELESS  
CONTROLS



SENSORS



# WHY USE **SMART** WIRELESS CONTROLS?

Till recently, the standard for lighting control was DALI. A central controller held all the commissioning details, and two communication wires linked all the devices (drivers, sensors, switches etc) together.

Installation costs were high (all that wiring...), extra hardware was required (panels, controllers etc), and commissioning was a specialist skill.

## Smart wireless systems eliminate all of these drawbacks

### **FLEXIBLE CONTROL**

Building layouts change. With CASAMBI and HubSense, implementing these changes is easy.

Re-assigning luminaires to groups, adjusting lux levels and fade times can all be done without specialist commissioning skills.

### **COST-EFFECTIVE RETRO-FIT**

Older buildings with no lighting controls can be upgraded to full lighting control with little disruption to the fabric.

Additional control wiring is not required, nor does space have to be found for bus power supplies and control panels.

### **SAFER, LOWER COST, EMERGENCY LIGHTING TESTING**

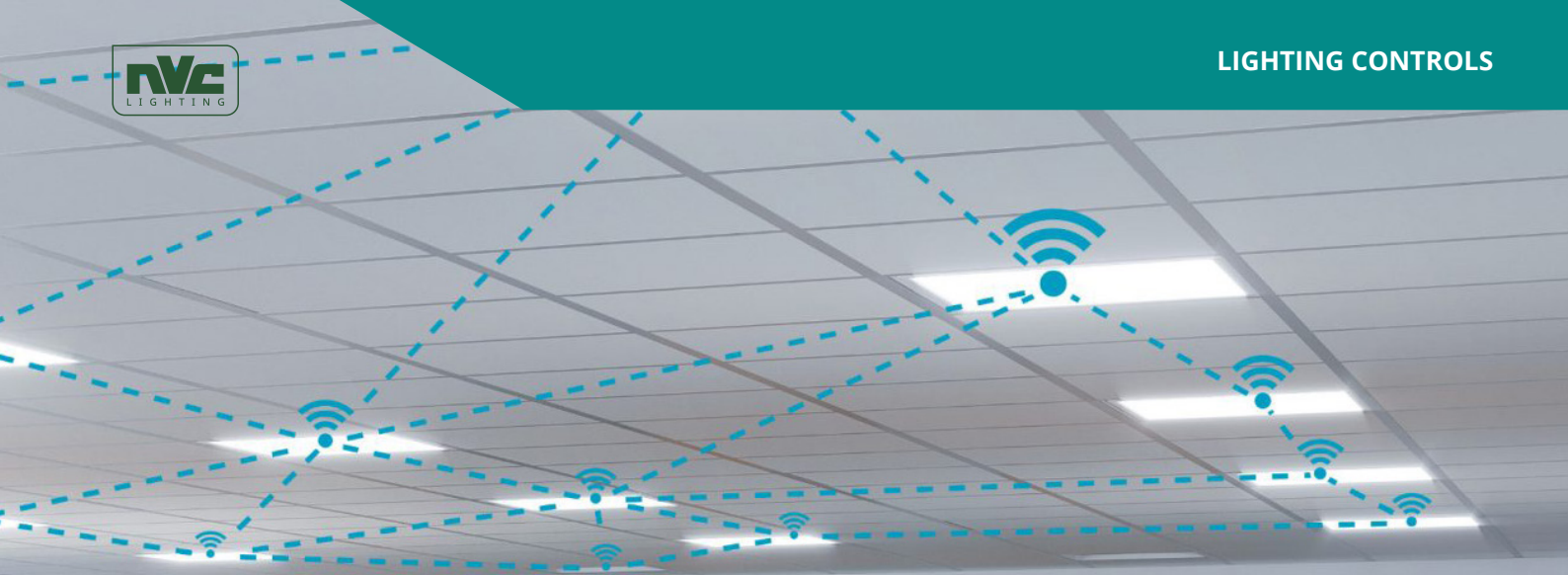
CASAMBI and HubSense both provide addressable emergency testing.

This has lower running costs, and is more reliable, than either manual or self-test emergency lighting testing.

**This means that smart wireless technology is the best approach for most projects needing lighting control and / or addressable emergency testing.**

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)





# SMART WIRELESS LIGHTING CONTROLS

Many wireless lighting control systems have come and gone, but two stand out for their functionality and technical superiority.

## CASAMBI and HubSense

They both use Bluetooth and a mesh network to enable multiple devices to talk to each other, making them “wire free”. With both, the commissioning details, such as what is designed to happen when and under what conditions, is held in the network (that’s why they are called “smart”), not in a central application controller or PC.

They both offer similar levels of functionality, including dimming, scene setting, CCT control and addressable emergency testing. The differences between them are largely technical and in the way a project solution is constructed.

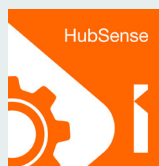


### CASAMBI

**Casambi grew out of Nokia (where Bluetooth was invented) in 2011.**

CASAMBI uses Bluetooth radio but has built its own mesh technology and lighting control protocols on top of that, so it has a proprietary architecture. However, CASAMBI has shared its software platform so widely that there is now a rich ecosystem of suppliers, all providing CASAMBI compatible devices, including drivers, sensors, dimmers, LCMs, switches and more.

CASAMBI is a safe choice for a diverse range of projects, including decorative and architectural lighting.



**HubSense was launched by Osram in 2020 and is now owned and developed by Inventronics.**

HubSense uses Bluetooth radio, Bluetooth mesh and Bluetooth Networked Lighting Control – together forming an integrated Bluetooth-based system. HubSense therefore has a more open, less proprietary architecture than CASAMBI, but because it is so much younger it does not (yet?) have the rich ecosystem of partners that CASAMBI enjoys.

HubSense is great for many commercial, industrial and public sector projects.

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)

# CASAMBI v HubSense

## Best-of-breed v one-stop-shop

CASAMBI enjoys a rich ecosystem of collaborating partners supplying compatible drivers, sensors, switches, touch panels and other devices. This offers the client choice, but splitting a project between several brands can increase costs.

HubSense does not have a similar ecosystem of partners, but Inventronics themselves (the owners and developers of HubSense) have their own devices and a single partner, EnOcean, has a range of HubSense compatible wireless switches.

This reduces choice, but for the customer this can be commercially beneficial.

Our approach is always to offer light fittings with the appropriate driver – CASAMBI or HubSense – as the customer chooses.

If the customer chooses CASAMBI we leave them free to select their own peripheral devices. If they choose HubSense we will offer a complete solution, including peripheral devices from Inventronics.

FUNCTIONALITY	CASAMBI	HubSense
Occupancy sensing	YES	YES
Daylight dimming	YES	YES
Manual dimming	YES	YES
Corridor function	YES	YES
Scene setting	YES	YES
CCT selection	YES	YES
Circadian control	YES	YES
Addressable emergency test	YES	YES
High security	YES	YES

### DEVICE TYPE

Drivers	Helvar, Tridonic, Boke, Euchips, Osram and more	Inventronics (formerly Osram)
Sensors	ExOr, CP Electronics and more	Inventronics
Touch screens & tablets	Adquio and iOS & Android devices	iOS & Android devices
Switches	EnOcean, Lithos and more	Inventronics
Remote access gateway	Casambi cloud gateway and others	Inventronics

Contact our technical team for details – [technical@nvcuk.com](mailto:technical@nvcuk.com)



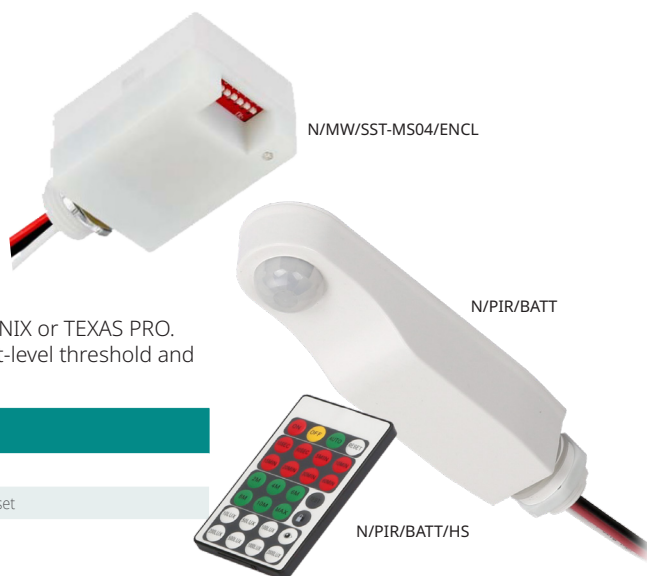
# SENSORS

Adding a sensor to a light fitting is often the most cost-effective way to add lighting control to an installation.

## BATTEN-MOUNT SENSORS

Suitable for fitting on the end of luminaires such as the YALE PRO, PHOENIX or TEXAS PRO. These sensors are all adjustable in respect to their range/sensitivity, light-level threshold and time delay.

ORDER CODE	DESCRIPTION
N/MW/SST-MS04/ENCL	Microwave C/W Lux Time Sens Adj In ENCL Wired
N/PIR/BATT	Batten Mount PIR Sensor On/Off IP65 with Remote Handset
N/PIR/BATT/HS	Batten Mount PIR Remote Handset Only



## RECESSED SENSOR

Suitable for installation in the ceilings of offices and classrooms, complete with adjustable range/sensitivity, light-level threshold and time delay.

ORDER CODE	DESCRIPTION
N/PIR/REC	Recessed Ceiling Mount PIR Sensor On/Off



## PHOTO-ELECTRIC CELLS



**NPECK**  
Dusk / dawn Photo-Electric Cell kit for installation on the outside of a building, controlling nearby fittings.

Switch on: <20 Lux  
Switch off: >80 Lux



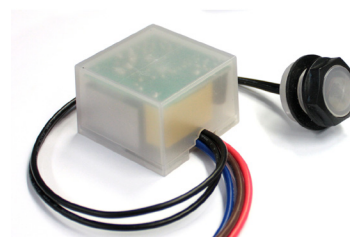
**NPECH**  
Dusk/dawn Photo-Electric Cell for installation on fittings with a NEMA socket.

Switch on: <20 Lux  
Switch off: >80 Lux



**NPECR**  
Dusk/dawn Photo-Electric Cell kit for installation inside a fitting. 1 part.

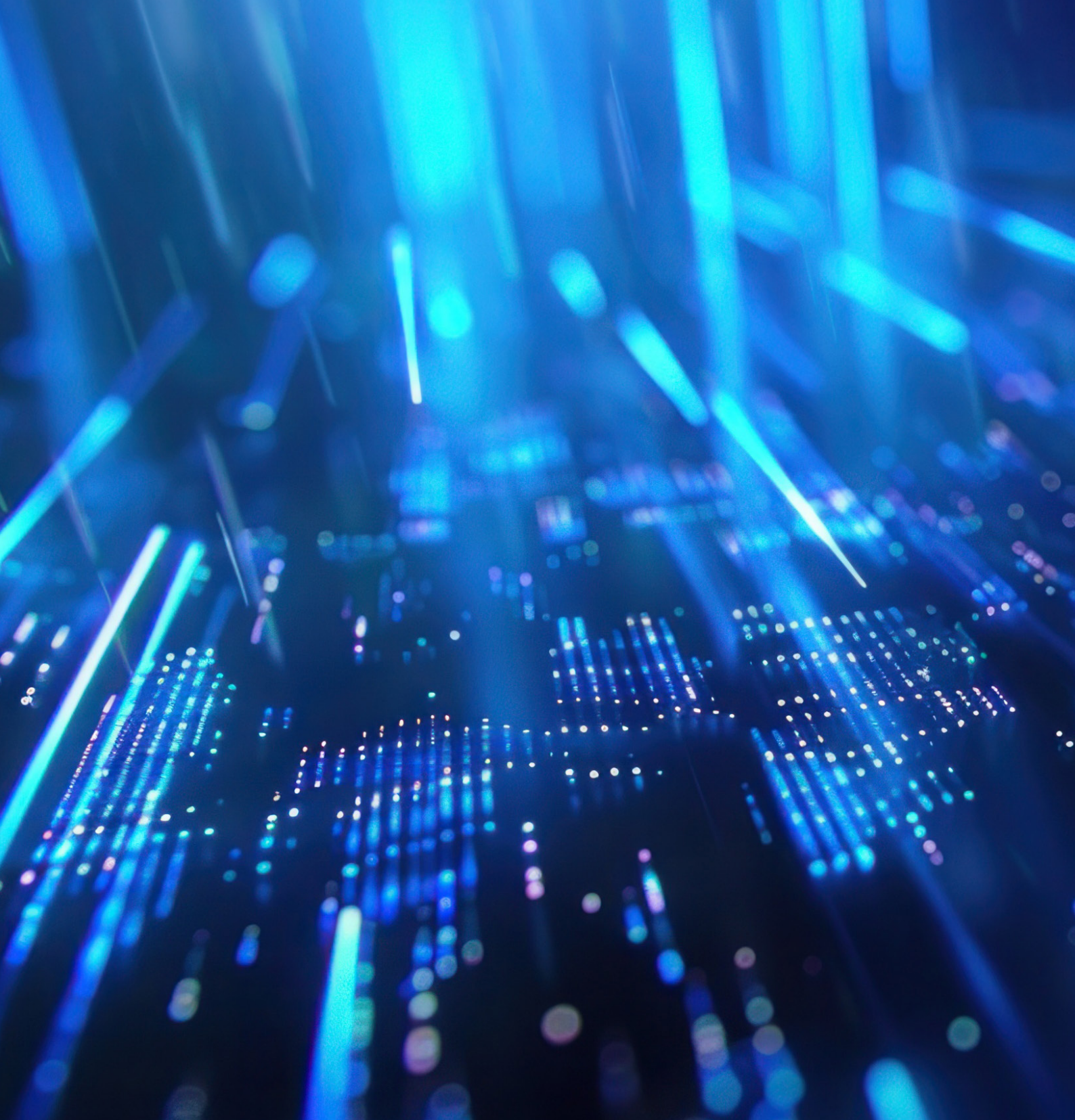
Switch on: <2 Lux  
Switch off: >10 Lux



**NPEC12P**  
Dusk/dawn miniature Photo-Electric Cell for installing inside a fitting. 2 part.

Switch on: <2 Lux  
Switch off: >10 Lux

ORDER CODE	DESCRIPTION
NPECH	Photo-Electric Cell External Head Only
NPEC12P	Photo-Electric Cell Internal 2 Part
NPECK	Photo-Electric Cell External Kit
NPECR	Photo-Electric Cell Internal 1 Part







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# GLOSSARY OF TERMS

## Acrylic (poly-methyl-methacrylate, PMMA)

- A thermoplastic mostly used to make lenses. It's most notable quality is its very high light transmission. Perspex and Plexiglas are brand names for PMMA.

## Beam angle

- Beam angle describes the overall shape of a symmetric beam of light. It is the angle formed at a light source between the lines representing half of the peak intensity.

The peak intensity (measured in candelas) in a symmetric beam of light is on the centre line of the beam. Away from the centre line the intensity drops. The beam angle is the angle between the two lines (one on each side of the beam) of half peak intensity. Note that light is still emitted outside the beam angle, but by definition, it is at an intensity that is <50% of the peak.

## Candelas (cd)

- A measure of light intensity. A downlight could have an output of 1,000 lm; if this was spread over a wide beam angle, the cd would be low, but if it were concentrated in a narrow beam the cd would be high.

## Circuit watts

- A light fitting is comprised of LEDs, which consume watts, and a driver, which also consumes watts. The circuit watts of a light fittings is its total power consumption – the watts consumed by the LEDs and the driver combined.

## Colour rendering index (CRI)

- CRI is one of two important measures of the quality of white light (cf. CCT, below). The best white light contains at least some of every visible wavelength, but lesser qualities of white light will have some wavelengths under-represented or missing altogether. If a wavelength is missing then it is impossible for the human eye to detect the presence of that colour in the object being illuminated. CRI is expressed as a rendering average (Ra). Perfect white light, with all visible wavelengths present, has an Ra of 100, but for most commercial uses an Ra>80 is acceptable. Objectively, higher Ra values are better than lower Ra values.

## Controller

- A translucent cover on a light fitting that diffracts the light passing through it so that the light is directed where required. This is often done to reduce the risk of glare.

## Correlated Colour temperature (CCT)

- CCT is one of two important measures of the quality of white light (cf. CRI, above). White light consists of a mix of different wavelengths and CCT describes the relative proportions of the low frequency reds and oranges and the higher frequency blues and violets.

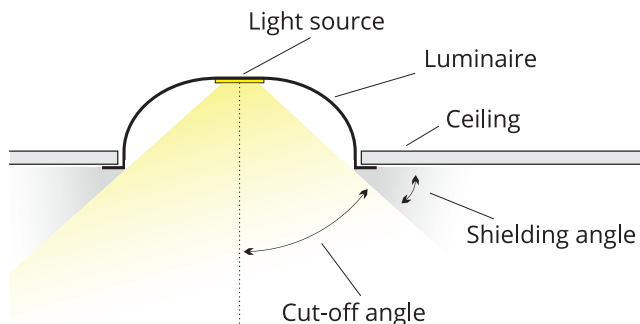
The variation in the proportions of different wavelengths gives us different types of white light, from “warm” feeling light, rich in red and yellow wavelengths (2,800K – 3,500K - as we would expect to find in our living rooms or a cosy restaurant) to “cool” feeling white light, rich in the blue wavelengths (5,000K – 6,500K) that we might find in an office or the gym.

CCT is measured in K because it is correlated to the light emitted by a black body at different temperatures measured on the Kelvin scale.

CCT is largely a matter of taste. Different people prefer different CCTs for different tasks or activities.

## Cut-off angle & shielding angle

- High shielding angles and low cut-off angles reduce the risk of glare, but can lower the uniformity in a lighting installation.



## DarkSky

DarkSky International is a not-for-profit international organisation focussed on reducing light pollution for the benefit of both wildlife and people. They do this through research, advocacy, education and a certification program for lighting products. For a lighting product to be DarkSky certified it needs to have, in summary:

- Restricted upward flux fraction
- Controls, to prevent light emission when/where it is not needed
- CCT below 3000K

DarkSky certification is not based on an ISO, IEC or EN standard. Many products could be technically compliant with the DarkSky certification without having been put through the DarkSky certification program.

## Diffuser

- A translucent cover across the front of a fitting that scatters (diffuses) the light in a random fashion.

## Driver

- An electronic device found in all LED light fittings. Its role in a commercial light fitting is to transform the mains supply from 230V AC to 12 or 24V DC, and in most cases also to regulate the current to the level required by the LEDs, typically a value between 250 – 1,500 mA.

## Fire rated

- A fire rated product is one that can be used in a fire rated ceiling without compromising its fire rating. Ceiling are typically rated for 30, 60 and 90 minutes, and light fittings designed to be inserted into them have corresponding ratings.

## Illuminance (lux)

- Illuminance is a measure of the amount of light arriving on a surface, such as a desk or floor. It is measured in lux. 1 lux = 1 lumen spread over 1m<sup>2</sup>. The vertical face of the server racks in a data centre should be lit to 200 lx and a warehouse floor would typically be lit to about 150 lux.

## LED

- Light Emitting Diode, a small electronic component that generates light from electricity. Typically just a few mm across, tens or hundreds of these can be used in a single light fitting.



### LED lumens

- The lumens produced by a bare LED, without a reflector, lens or diffuser, under laboratory conditions. This is essential information for a luminaire designer or manufacturer, but is of little practical use for a lighting designer, installer or end-user

### Lumens (lm)

- A measure of the amount of visible light emitted by a source at any moment in time. If someone asks, "How much light does this source produce?", the correct answer is given in lumens. A typical LED panel emits c3,000 lm.

### Luminaire lumens

- The number of lumens produced by a luminaire that actually get out of the luminaire (rather than being lost inside) and provide light for end-users. This is essential information for a lighting designer or specifier

### Do you know your lux from your lumens?

If someone asks "How much light does this fitting emit?" the correct answer will be expressed in lumens. A typical LED panel emits c 3,000 lumens, a high-bay fitting emits about 20,000 lumens.

Lux answers the question, "How bright is it on my desk?" The typical lux level for a desk is 500 lux.

### Luminance (cd/m²)

- Luminance is a measure of the amount of light being emitted from a surface, such as a lighting diffuser or reflector, in a given direction. It is measured in candelas per m² (cd/m²). For instance, both an LED panel (600x600mm) and a small spotlight (25mm diameter) might emit 3,000 lumens, but the spotlight's smaller surface area results in a much higher luminance at the centre of its beam than the panel. cd/m² is used in the calculation of the Unified Glare Rating (UGR) of an installation.

### Micro-prismatic

- Often used to describe a controller. A microprismatic controller has micro-scale prisms moulded into it so that the light is refracted creating a very smooth effect, often helping to achieve high levels of uniformity.

### Photometric data

- Data that describes in objective terms the light that is emitted from a light fitting. Typically, this data is divided into three categories:
  - o The amount of light produced, measured in lumens, and the watts consumed in the process.
  - o The 3-dimensional spatial distribution of the light, describing how much light is emitted in all directions from the fitting. This is contained in files that can be used with various lighting design software packages with dedicated formats, such as .ldt files (for use in Relux) and .ies files (for use in Dialux).

- o The quality of the light, described in a chromaticity report. This will show the spectral power distribution, the colour temperature and the colour rendering index.

Every light fitting is different, so each one should have its own photometric data available.

### Polycarbonate (PC)

- A type of thermoplastic widely used in light fittings. Its most notable quality is its resistance to impact and its ability to withstand bending and twisting, so it is good choice for fittings that might be subject to impact. It can be clear, opaque or coloured. In its clear form it is highly translucent, so light passes through it with few losses.

### Reflector

- A specular or semi-specular component in a light fitting that reflects the light in a particular direction.

### TP(a) and TP(b)

- Thermoplastics (a) and (b) are types of thermoplastic used in lighting diffusers when they are part of a ceiling. TP(a) materials can be used in any quantity in a ceiling, but TP(b) rated materials (because of the risk that they might contribute to the spread of fire) can only be used with some limitations.

### UGR – Unified Glare Rating

- An objective measure of the risk that the occupants of a room will experience glare caused by the lighting. UGR applies to an interior installation, not a light fitting, though the design of a light fitting has a substantial impact on the UGR calculation for a room.

UGR values typically range from 10 to 30, with lower values indicating a lower risk that occupants will experience glare. A UGR of less than 19 is considered acceptable in many indoor settings, while values above 22 may be problematic and cause some visual discomfort.

UGR is an important factor in lighting design, where a balance has to be found between adequate uniformity and visual comfort.

### Ultra-violet (UV)

- Short wavelength light, just outside the spectrum visible to humans. While most LEDs generate little or no UV radiation, UV is present in natural light. Many plastics will yellow when exposed to UV, but UV stabilisers can be added to prevent this.

### Uniformity

- An expression of the variation in lux levels within a space, with a value of 1.0 indicating perfect uniformity. In a working environment (eg a classroom or an office), a high degree of uniformity with values above 0.7 is usually required. In contrast, settings like pubs, restaurants or hotel rooms may benefit from less uniformity and some contrast, to add interest and to reflect the different functions that take place in different areas.

### Watt (W)

- A measure of electrical power. Watts = volts x amps. Electrical power is the input to a light fitting; the output is lumens, so efficiency is measured in lumens (output) per watt (input).

# WARRANTY

## OVERVIEW

All NVC Lighting products have either a 7-year or 5-year warranty, as follows:

- 7-year warranty on all **PROe** and **LiFe** range of products, including batteries
- 5-year warranty on all **Core** range products, excluding nickel cadmium (NiCd) batteries
- All warranties are from the date of installation
- For a valid warranty claim, products must be appropriate for the intended use and professionally installed in line with current best practices
- Our warranty covers repair, replacement or refund of any faulty product

## WARRANTY

Our warranty is designed to bring peace of mind to our customers. We take great care to ensure that our products will meet the expectations of specifiers, installers and end-users, but if this ever happens not to be the case we will promptly repair, replace or refund the value of any faulty product, as follows:



### 7-Year

All **PROe** and **LiFe** range products identified with this mark carry a 7-year unlimited hours warranty. This includes the batteries on dedicated emergency products or emergency converted products.



### 5-Year

All **Core** range products identified with this mark carry a 5-year unlimited hours warranty. This excludes nickel cadmium (NiCd) batteries on dedicated emergency products or emergency converted products.

## TERMS

- Faulty products. We warrant our product against faults in their design, materials and workmanship. If you believe you have a warranty claim, please contact the distributor from whom you purchased the product in the first instance.
- Repair, replace or refund. At our discretion we will repair, replace or refund any product where a warranty claim is upheld, as follows:
  - o Repair. Where a repair is carried out the repaired product's warranty will be the remainder of the original warranty.
  - o Replace. Where a repair is not practical or cost-effective we will offer a replacement. The replacement may be the same as the original product or, if that is no longer available, we will offer the nearest equivalent product. Where a product is replaced the warranty will be as for a new product with a full 7 or 5 years, as appropriate.
  - o Refund. If the replacement we offer is not acceptable to the client we will provide a refund. The refund value will be the price paid to NVC Lighting Limited for the product that is the subject of the warranty claim, net of all discounts, rebates etc.
- Warranty start date. Our warranties run from the date of installation.
- Unlimited. Our warranties are not limited to a number of running hours.

## CONDITIONS

When we evaluate a warranty claim we will take account of the following conditions:

- Installation. Products should be installed, maintained and tested in accordance with our instructions, local electrical installation regulations and generally accepted good installation practices. Failure to do this may invalidate the warranty.
- Ambient temperature. Unless otherwise stated in our instruction leaflet or on the data sheet, all our products are for installation in an ambient temperature not exceeding 25°C. The minimum ambient temperature for emergency products is 0°C.
- Lumen depreciation. The L values (L80, L70 etc) we state are averages. This means that in any one installation it is to be expected that up to 50% of all fitting will achieve less than their stated L values at the end of their rated life (generally 100,000 hours or 50,000 hours), while the remainder will achieve more. This means that the failure of one fitting to achieve its L value at the end of the warranty period is not, on its own, a valid warranty claim. A warranty claim based on high lumen depreciation will only be considered if it relates the average of an entire installation of a product.

## EXCLUSIONS

The following are excluded from our warranty:

- Labour costs associated with removing and/or replacing products that are the subject of a valid warranty are excluded.
- On-site costs, such as the hire of access equipment, associated with removing and/or replacing products that are the subject of a valid warranty are excluded.
- Consequential losses and damages arising from faulty products including, but not limited to, costs associated with the closure of premises, loss of income, interruption of business and the compensation of staff and contractors are excluded.
- Nickel cadmium (NiCd) batteries. Because the way that batteries are used (which is outside our control) has a significant impact on the lifespan of NiCd batteries in particular, these batteries carry no warranty.

## TO MAKE A WARRANTY CLAIM

If you believe you have a warranty claim, please contact the distributor from whom you bought the product in question. If the distributor is no longer in business you may contact NVC Lighting Limited direct at [sales@nvcuk.com](mailto:sales@nvcuk.com) or call on +44 (0)121 457 6340

Please be ready to state when and where you purchased the product and other details such as the environment in which it is installed, the nature of the alleged fault, the product identification and the batch code or date of manufacture (to be found on the product label). We will do all we can to resolve the matter quickly.





# SYMBOLS



**Class I.** Basic insulation and all exposed conductive parts connected to an earth terminal.



**Class II.** Basic and supplementary insulation in accordance with BS EN60598. No provision for an earth connection.



**ENEC.** The control gear in this fitting carries the ENEC (European Norms Electrical Certification) mark. Any control gear carrying this mark must be independently tested to meet both the safety and the performance requirements of the applicable standards.



## L80 100,000 & L70 50,000

These are the average lumen depreciation standards that apply to our products, as identified in this catalogue.



- The L value indicates the % of the initial lumen output that is expected to be produced once the rated running hours have elapsed. This is an average value, meaning that in any group of the same fittings it is expected that 50% will perform better than the average and 50% will perform below the average
- 100,000 and 50,000 are the rated running hours.

## SDCM<3 and SDCM<5

SDCM (Standard Deviation Colour Matching) is an objective measure of the colour consistency of a light source. These symbols indicate that all fittings within any one batch of the same product will, when new, be within 3 or 5 SDCMs of each other.



**ICEL** is the Industry Committee for Emergency Lighting, part of the Lighting Industry Association (LIA). ICEL Endorsed products have been independently tested to the relevant standards and the test reports assessed and checked by ICEL. The internal processes of the supplier are also audited initially and at yearly intervals thereafter to ensure no deviation of the endorsed product. ICEL endorsement is the highest assurance that the product you will receive is compliant with the relevant standards.



## IP rating.



**IK08.** Impact tested to withstand 5 Joules (1.7Kg mass dropped from 300mm), in accordance with BS EN62262.



**IK09.** Impact tested to withstand 10 Joules (5Kg dropped from 200mm), in accordance with BS EN62262.



**IK10.** Impact tested to withstand 20 Joules (5Kg dropped from 400mm), in accordance with BS EN62262.



**1-10v** This product is dimmable with an analogue, 1-10V control signal. Typically, this signal will be provided either by a sensor with a 1-10V output (manufacturers include Danlers, CP Electronics and Ex-Or) or with a manually controlled rotary switch, such as made by Varilight or Zano.



**Mains dimming.** This fitting is dimmable with suitable mains (phase cutting) dimmers. Call our technical team for guidance if required.



**TP(a)/(b).** The thermoplastic diffuser material in this fitting has been tested and found to have the characteristics required for TP(a)/TP(b) rating.



**Fire rated 30, 60, 90.** This fitting has been tested and found suitable for use in solid timber and I-beam ceilings fire rated to 30, 60 and 90 minutes.



This fitting is supplied with a **7-year unlimited hours warranty**. For details, see the Warranty Statement on page 172.



This fitting is supplied with a **5-year unlimited hours warranty**. For details, see the Warranty Statement on page 172.



This fitting is certified for use in wood, paper and textile processing plants. This symbol confirms that the outer surfaces of the luminaire on which highly flammable substances such as dust or fibres may gather do not exceed the temperature limits specified in EN 60598-2-24.



**Emergency versions** of this product are available. They are fitted with lithium batteries.



**CASAMBI** smart wireless control options are available.



**HubSense** smart wireless control options are available.



**EPD** Environmental Product Declaration. An EPD, evaluated in line with ISO 14025:2006, is available for any product where this symbol is displayed.



**Temperature** - Designed to operate between 0-40°C



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