

The background of the slide is a blue-tinted photograph of a large-scale construction project. It shows a massive, circular tunnel under construction, with workers and equipment visible in the distance. The text is centered within a white rectangular box that has a thin white border.

INDUSTRIAL/ COMMERCIAL LIGHTING

BULKHEAD



NBR Bulkhead

The **NBRF Bulkhead** with flat diffuser and **NBRD Bulkhead** with dome diffuser are architecturally designed bulkheads for use with compact fluorescent lamps and LED modules. The clean modular design of these vandal resistant bulkheads makes them ideal features to form interesting architectural lighting design elements along walkways, facades and stairs.

Applications: Retail Lighting, Commercial and Housing Developments, Public Lighting, Indoor and Outdoor Applications

Body Housing: Manufactured from LM6 die cast aluminium base and trim ring. Finished in black or white epoxy powder coated.

Diffuser: Injection-moulded, one-piece non-discolouring high impact and thermal resistance UV stabilized with high impact acrylic diffuser smooth interior and exterior opal visor, to SABS specifications.

Gasket: Captive silicone gasket provides seal for outdoor use. Ideal for wet or dust locations.

Lamp holder: Only G24-d compact type fluorescent lamps are suitable.

Control Gear: 230 V/50 Hz magnetic switch start ballast or

electronic control gear and capacitors are used with 2 terminal blocks suitable for 4 mm

Lamps: The bulkhead can be supplied with 18W or 26W compact fluorescent lamps as well as with 15W or 24W LED modules.

Screws: Captive stainless-steel screws operate through the diffuser flange for easy location.

Conduit entry: 20mm entry is provided at the back of the bulkhead.

Emergency Mode: Emergency backup available on request.

Ingress Protection: IP65

Photometric Data: Photometric files available on request.

Warranty: 1 Year



NBV Bulkhead

The **NBV Bulkhead** is manufactured from die-cast aluminium and is a stylish, economical and energy efficient compact fluorescent or LED luminaire. Robust design suitable for industrial and/or public buildings. Ceiling or wall mounted and suitable for indoor and outdoor applications. Can also be used as an Emergency EXIT sign. The NBV Bulkhead continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Subway Lighting, Stairways Lighting, Corridor Lighting, Landings, Ramps, Public Buildings.

Body Housing: Manufactured from LM6 die cast aluminium. Finished in white epoxy powder coated.

Diffuser: One piece injection-moulded from clear impact and thermal resistance UV stabilized polycarbonate with internal prisms and smooth exterior.

Gasket: Captive silicone gasket provides seal for outdoor use. Ideal for wet or dust locations.

Lamp holder: Only 2G11 type linear compact fluorescent lamps are suitable.

Control Gear: 230V electronic control gear and capacitors are used with terminal block suitable for 4mm².

Lamps: The bulkhead can be supplied with one 11W or one

18W linear compact fluorescent lamp as well as with an 8W LED strip.

Screws: Two captive stainless steel screws operate through the diffuser flange for easy location.

Conduit entry: Single compression gland.

Emergency Mode: The bulkhead is suited for use as a self-contained LED emergency lighting luminaire. Internal inverter charger and battery pack, are mounted on the control gear tray. Maintained and non-maintained modes.

Emergency Duration: 3 Hours or 6 Hours

Ingress Protection: IP55 after installation.

Photometric Data: Photometric files available on request.

Warranty: 1 Year



NGB - LED

The **NGB - LED** luminaire range is a high-performance industrial luminaire designed to replace the conventional HID lamps which makes it energy efficient with high performance, low maintenance and longer life span. It's suitable for wall, ceiling, bracket and pole mounting. The NGB - LED continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Industrial sites, Security, Conveyor, Public Buildings and Various Mining areas.

Housing: Manufactured from high pressure die cast aluminium, with a heavy duty toughened smooth clear glass refractor, fitted into a die cast aluminium frame.

Frame: The frame is fitted with 6 spring stainless steel fingertip latches which hold the frame in position.

Gasket: Round silicone sponge gasket retainer within a recess in the cast aluminium base provides a seal for outdoor use.

Control Gear: Constant Current LED driver 220V/240V, 50/60Hz

Screws: All external screws are made of stainless steel.

Cable Entry: Single compression gland for cable diameter 8-11mm.

Mountings: The body incorporates many choices of mounting options including: flood, wall, ceiling brackets, angled wall brackets, anti-vibration brackets, pole mounting brackets and angled post top brackets.

LED: The bulkhead is designed to operate with various LED wattages.

Emergency Mode: Emergency options available on request.

Rated Lifetime: 60 000 Hr. (L70/B10)

Warranty: 5 Years

Photometric Data: Photometric files available on request.

BULKHEAD CONT.



NGB - LED Bulkhead

The NGB LED Bulkhead luminaire range is a high-performance industrial die-cast aluminium luminaire that has been designed to satisfy a wide range of industrial and architectural applications. It is available in various LED wattages. It is suitable for wall, ceiling, bracket and pole mounting. The NGB LED Bulkhead continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Industrial sites, Security, Conveyor, Public Buildings and Various Mining areas.

Body: High pressure die-cast LM 6 aluminium.

Lens: Heavy duty toughened smooth clear glass, fitted into a die-cast aluminium frame.

Frame: The frame is fitted with 6 spring stainless steel fingertip latches which hold the frame in position. The hinged frame is reversible for easy installation.

Gasket: Round silicone sponge gasket retained within a recess in the cast aluminium base to ensure total sealing.

Control Gear: Aluminium gear tray houses the constant current LED driver and LED strips.

Screws: All external screws are made of stainless steel.

LED: The bulkhead is designed to operate with various LED wattages. Optics are available on request to achieve various light distributions.

Cable Entry: The bulkhead is supplied with a single compression gland for cable diameter 8-11mm.

Mounting: The body incorporates lugs which provides a variety of mounting options such as, Wall / Ceiling Brackets, Anti-vibration mountings, pole mounting brackets and an angled post-top bracket.

Ambient Temperature Rating: -10°C - +35°C

Ingress Protection Grade: IP65

Emergency Mode: Emergency options available on request.

Features: The luminaires have a venting element to avoid high humidity and condensation inside the enclosure. The venting element is made from flame retardant polyamide PA6 with high quality breathable and watertight PES membrane to enable high protection grade of >IP65.

Photometric Data: Photometric files available on request.

Warranty: 5 Year

CANOPY



NCL-LED Canopy

The NCL-LED Canopy luminaire is aimed to provide superb lighting distribution for various applications. The luminaire can be recessed, surfaced or suspended and can be used indoors as well as outdoors. It has been designed to replace the conventional HID light sources. The luminaire has a modern design, simple and exquisite smooth lines and is energy efficient with high performance, low maintenance and long life span. The NCL-LED Canopy continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Canopy Lighting, Vehicle Showrooms, Warehouses Lighting & Conference Hall Lighting.

Housing: Manufactured from aluminium alloy, with a heavy-duty toughened smooth clear glass refractor, fitted into the aluminium alloy housing.

Gasket: The silicone sponge gasket between the glass and housing provides an IP66 seal for outdoor use.

Control Gear: Constant Current LED driver 100V/240V, 50/60Hz

Mounting: Recessed, Surface or Suspension mounting.

Smart Controls: Motion sensor and Dali Dimmable available on request.

Rated Lifetime: 50 000 Hr. (Ta=30°C@L70)

Warranty: 5 Years

FLOOD



NFL-Eco LED Floodlight

The NFL-Eco LED Floodlight luminaire is aimed to provide superb lighting distribution with special designed optic lenses. This luminaire is not only used as a floodlight for sports or area lighting, but also as a perfect luminaire for building façade lighting. The Floodlight is designed to replace the conventional HID light sources and suitable for bracket and pole mounting. Modern design, simple and exquisite smooth lines, energy efficient with high performance, low maintenance and long life span.

Applications: High Masts / Parking / Toll Plaza / Recreational Spots / Building Façade

Housing: Manufactured from aluminium alloy, with a heavy duty toughened smooth clear glass refractor, fitted into the aluminium alloy housing. The housing is fitted with 6 spring steel latches which hold the glass in position.

Gasket: The silicone sponge gasket between the glass and housing provides a IP66 seal for outdoor use.

Control Gear: Constant Current LED driver 100V/240V, 50/60Hz

Mounting: The body incorporates an aluminium alloy stirrup which allows for various mounting options.

Beam Angels: The optic lenses allows for various light distributions such as narrow, medium, wide, as well as asymmetrical and symmetrical.

Wire Guard: The wire guard is an additional option that provides extended protection for the glass against vandalism and the outdoor elements.

Rated Lifetime: 50 000 Hr. (Ta=30°C@L70))

Warranty: 5 Years

FLOOD CONT.



NFL-HP LED Floodlight

The NFL-HP LED Floodlight luminaire is aimed to provide superb lighting distribution with special designed optic lenses. This luminaire is used as a floodlight for sport stadiums, area lighting etc. The Floodlight is designed to replace the conventional HID light sources and suitable for bracket mounting. Modern design, simple and exquisite smooth lines, energy efficient with high performance, low maintenance and long life span. The NFL-HP LED Floodlight continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Sports Stadiums / High Mast Area Lighting / Parking / Toll Plaza / Recreational Sports.

Housing: Manufactured from aluminium alloy powder coated black, with a heavy duty toughened IK08 smooth clear glass refractor, and polycarbonate optical lens fitted into the aluminium alloy housing.

Gasket: The silicone sponge gasket between the glass and housing provides a IP66 seal for outdoor use.

Mounting: The body incorporates an aluminium alloy stirrup, powder coated black.

Floodlight Rotation / Tilt Angles: The modules are connected by a rotation axis. Each module have a 70° rotating range, while two or more modules can be rotated by 40°. This remarkable solution engineered for different requirement in outdoor lighting applications.

Beam Angles: The optic lenses allows for various light distributions such as narrow, medium and wide.

Dimmable: Dali dimmable and Non-dimmable available on request.

Warranty: 5 Years



NFL-HP Modular LED Floodlight

The NFL-HP Modular LED Floodlight luminaire is aimed to provide superb lighting distribution with special designed optic lenses. This luminaire is not only used as a floodlight for sports or area lighting, but also as a perfect luminaire for building façade lighting. The Floodlight is designed to replace the conventional HID light sources and suitable for bracket mounting. Modern design, simple and exquisite smooth lines, energy efficient with high performance, low maintenance and long life span. The NFL-HP Modular LED Floodlight continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: High Masts / Parking / Toll Plaza / Recreational Sports / Building Facade

Housing: Manufactured from aluminium alloy powder coated silver, with a heavy duty toughened smooth clear glass refractor, and polycarbonate optical lens fitted into the aluminium alloy housing.

Gasket: The silicone sponge gasket between the glass and housing provides a IP65 seal for outdoor use.

Mounting: The body incorporates a 180° rotatable aluminium alloy stirrup.

Beam Angles: The optic lenses allows for various light distributions such as narrow, medium and wide.

Dimmable: Dali dimmable and Non-dimmable available on request.

Warranty: 5 Years



NFL-Mini LED Floodlight

The NFL-Mini LED Floodlight luminaire is aimed to provide superb lighting distribution with special designed optic lenses. This luminaire is not only used as a floodlight for recreational sports or area lighting, but also as a perfect luminaire for building façade lighting. The Floodlight is designed to replace the conventional HID light sources and suitable for bracket and pole mounting. Modern design, simple and exquisite smooth lines, energy efficient with high performance, low maintenance and long life span. The NFL-Mini LED continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Parking / Toll Plaza / Recreational Sports / Building Facade / Industrial Facilities & Shopping Centers.

Housing: Manufactured from aluminium alloy, with either a heavy duty toughened smooth clear glass refractor, or polycarbonate optical lens fitted into the aluminium alloy housing. Powder coated black.

Gasket: The silicone sponge gasket between the glass and housing provides a IP66 seal for outdoor use.

Control Gear: Constant Current LED driver 100V/240V,

50/60Hz

Mounting: The body incorporates an aluminium alloy stirrup which allows for various mounting options.

Beam Angles: The optic lenses allows for various light distributions such as narrow, medium, wide, as well as asymmetrical and symmetrical.

Rated Lifetime: 50 000 Hr. (Ta=30°C@L70)

Warranty: 5 Years

HIGHBAY



NHL100 - LED Highbay

The NHL100 LED Highbay consist of a die-cast aluminium alloy body and is polyester epoxy powder coated, which makes it ideal for indoor and outdoor applications. This luminaire provides high energy efficiency, excellent illumination, low maintenance and long lifespan. Various mounting options include Hook, Ceiling and Wall mount. The addition of Motion and Daylight sensors allows for even further energy savings especially in areas which are less occupied. Dali dimmable gears are also available on request. The NHL100 LED high bay continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Warehouses / Industrial Facilities / Exhibition Centers / Shopping Malls / Indoor Sports / Aircraft Hangers

Housing: Manufactured from aluminium alloy, with a heavy duty toughened smooth clear glass refractor as standard fitted into the aluminium alloy housing.

Optics & Reflectors: Multiple polycarbonate optic lenses and aluminium reflectors which provides different beam angles available for various applications.

Gasket: The silicone sponge gasket between the glass and housing provides a IP65 seal.

Control Gear: Constant Current LED driver 100V/240V, 50/60Hz

Dimming & Sensors: The addition of Motion and Daylight sensors allows for even further energy savings especially in areas which are less occupied. Dali dimmable gear are also available on request.

Mounting: Various mounting options include Hook, Ceiling and Wall mount.

Rated Lifetime: 50 000 Hr. (Ta=30°C@L70)

Warranty: 5 Years



NHL200 - LED Highbay

The NHL200 LED high bay consists of a die-cast aluminium alloy body and is polyester epoxy powder coated, which makes it ideal for indoor and outdoor applications. This luminaire was specially designed for Food Processing Facilities providing high energy efficiency, excellent illumination, low maintenance and long life span. Dali dimmable gears are also available on request. The NHL200 LED high bay continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Food Processing Facilities / Warehouses / Industrial Facilities / Exhibition Centers / Shopping Malls / Indoor Sports / Aircraft Hangers / Supermarkets.

Housing: Manufactured from aluminium alloy powder coated grey.

Lens: Multiple polycarbonate optic lenses which provides different beam angles available for various applications.

Gasket: The silicone sponge gasket between the polycarbonate

lens and housing provides a IP66 seal.

Control Gear: Constant Current LED driver 100V/240V, 50/60Hz

Dimming: Dali dimmable gears are also available on request.

Mounting: Hook mounting.

Rated Lifetime: 50 000 Hr. (Ta=30°C@L70)

Warranty: 5 Years

LINEAR



NSC Open Channel

The NSC Open Channel is a high quality stainless steel 304 open channel luminaire suitable for use with T8 fluorescent as well as T8 LED Tubes. Slender and versatile, the stainless steel channel offers resistance to more corrosive elements and offers a Hi-Tech look to the retailing industry. Available in 600mm, 1200mm, 1500mm double lamp versions only. Stainless steel wing available as an optional extra. The NSC Open Channel continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Distribution Centres, Warehouse lighting, Factory lighting, Storage lighting, Parking Garages and Walkways, Retail / Shopping lighting, Coastal areas, subject to higher than normal humidity.

Body: The body and control gear cover is formed from Stainless Steel. The control gear cover acts as a reflector.

Reflector: Optional Extra: The reflector is formed from stainless steel, and is secured by means of two stainless steel butterfly nuts.

Control Gear: Switch start and electronic ballasts available for the 18W, 36W and 58w double lamps.

Lamp holders: Twist lock, one end spring-loaded the other fixed.

Lamp holder End cap: The lamp holders are clipped into an injection moulded end cap to hold the lamps securely in position. The lamp cap is notched to allow for easy access.

Cable Entry: Provision is made for a knockout at either end. The body is punched with a centre rose to match a standard outlet box.

Mounting: Two bosses are stamped into the back of the luminaire with a 5mm central hole.

Emergency Mode: these luminaires can be fitted with inverter charger and battery backup, to operate in the maintained mode.

Ingress Protection: IP20

Photometric Data: Photometric files available on request.

Warranty: 1 Year

LINEAR CONT.



JBF-LS LED

The **JBF-LS LED** linear luminaire range is a high-performance industrial vapour proof DMC, flame retardant glass fibre reinforced polyester luminaire that has been designed to operate with LED strips. It's suitable for wall, ceiling, bracket and pole mounting. The JBF-LS LED continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Industrial sites, Warehouses, Public Buildings, Underground Parking areas and Various Mining areas.

Body: Manufactured from DMC, compression moulded flame retardant glass fibre reinforced polyester.

Clips: Double acting stainless steel clips.

Lens: Injection moulded frosted polycarbonate lens with linear internal prisms.

Gasket: Silicone sponge gasket.

Control Gear: Aluminium gear tray carries the LED driver and LED strips, and also acts as a reflector. Two cords allow the

gear tray to be suspended from the body during installation and service.

Cable Entry: Standard single entry with No.0 Compression gland for cable diameter 6 - 11mm.

Mounting: Brass body inserts allows for hook, wall/ceiling brackets or pole clamps to be used.

Ambient Temperature Rating: -10°C - +35°C

Ingress Protection Grade: IP66

Emergency Mode: Emergency options available on request.

Photometric Data: Photometric files available on request.

Warranty: 5 Year



JBF-LT LED

The **JBF-LT LED** linear luminaire range is a high-performance industrial vapour proof DMC, flame retardant glass fibre reinforced polyester luminaire that has been designed to operate conventional T8 LED tubes. It's suitable for wall, ceiling, bracket and pole mounting. The JBF-LT LED continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Industrial sites, Warehouses, Public Buildings, Underground Parking areas and Various Mining areas.

Body: Manufactured from DMC, compression moulded flame retardant glass fibre reinforced polyester.

Clips: Double acting stainless steel clips.

Lens: Injection moulded clear polycarbonate lens with linear internal prisms.

Gasket: Silicone sponge gasket.

Control Gear: White epoxy coated gear tray carries the lamp holders. The gear tray is designed to operate T8 LED tubes. Two

cords allow the gear tray to be suspended from the body during installation and service.

Cable Entry: Standard single entry with No.0 Compression gland for cable diameter 6 - 11mm.

Mounting: Brass body inserts allows for hook, wall/ceiling brackets or pole clamps to be used.

Ambient Temperature Rating: -10°C - +45°C

Ingress Protection Grade: IP66

Emergency Mode: Emergency options available on request.

Photometric Data: Photometric files available on request.

Warranty: 1 Year



JBLS LED

The **JBLS LED** linear luminaire range is a high-performance industrial vapour proof DMC, glass fibre reinforced polyester luminaire that has been designed to operate with LED strips. It's suitable for wall, ceiling, bracket and pole mounting. The JBLS LED continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Industrial sites, Warehouses, Public Buildings, Underground Parking areas and Various Mining areas.

Body: Manufactured from DMC, compression moulded glass fibre reinforced polyester.

Clips: Polyamide clips supplied as standard. Stainless steel or vandal resistant stainless steel clips available on request.

Lens: Injection moulded frosted polycarbonate lens with linear internal prisms.

Gasket: Silicone sponge gasket.

Control Gear: Gear tray carries the LED driver and LED strips, and also acts as a reflector. Two cords allow the gear tray to be suspended from the body during installation and service.

Cable Entry: Two 20mm diameter cable entries are provided for through wiring. Plugs are supplied for blanking off cable entries. Glands are not provided.

Mounting:

- IP65: Optional stainless steel hanging brackets available on request.

- IP66: Brass body inserts allows for hook, wall/ceiling brackets or pole clamps to be used.

Ambient Temperature Rating: -15°C - +35°C

Ingress Protection Grade: IP65 standard/IP66 on request.

Emergency Mode: Emergency options available on request.

Photometric Data: Photometric files available on request.

Warranty: 5 Year

LINEAR CONT.



JBLS-LB LED

The JBLS-LB LED linear luminaire range is a high-performance industrial vapour proof DMC, glass fibre reinforced polyester luminaire that has been designed to operate with LED strips. The luminaire has a unique reflector design which optimizes the light distribution. It's suitable for wall, ceiling, bracket and pole mounting. The JBLS-LB LED continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Industrial sites, Warehouses, Public Buildings, Underground Parking areas and Various Mining areas.

Body: Manufactured from DMC, compression moulded glass fibre reinforced polyester.

Clips: Double acting Stainless steel clips.

Lens: 4mm Thick clear tempered plate glass.

Gasket: Silicone sponge gasket.

Control Gear: High brightness aluminium reflector designed for optimized light distribution carries the LED driver and LED strips. Two cords allow the reflector to be suspended from the body during installation and service.

Cable Entry: Two 20mm diameter cable entries are provided for through wiring. Plugs are supplied for blanking off cable entries. Glands are not provided.

Mounting: Brass body inserts allows for hook, wall/ceiling brackets or pole clamps to be used.

Ambient Temperature Rating: -10°C - +35°C

Ingress Protection Grade: IP65

Emergency Mode: Emergency options available on request with the use of an external emergency box. To be ordered separately.

Photometric Data: Photometric files available on request.

Warranty: 2 Years



JBLT LED

The JBLT LED linear luminaire range is a high-performance industrial vapour proof DMC, glass fibre reinforced polyester luminaire that has been designed to operate with LED tubes. It's suitable for wall, ceiling, bracket and pole mounting. The JBLT LED continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: All non-hazardous areas, Industrial sites, Warehouses, Public Buildings, Underground Parking areas and Various Mining areas.

Body: Manufactured from DMC, compression moulded glass fibre reinforced polyester.

Clips: Polyamide clips supplied as standard. Stainless steel or vandal resistant stainless steel clips available on request.

Lens: Injection moulded clear polycarbonate lens with linear internal prisms.

Gasket: Silicone sponge gasket.

Control Gear: White epoxy coated gear tray carries the lamp holders. The gear tray is designed to operate T8 LED tubes. Two cords allow the gear tray to be suspended from the body during installation and service.

Cable Entry: Two 20mm diameter cable entries are provided for through wiring. Plugs are supplied for blanking off cable entries. Glands are not provided.

Mounting:

- IP65: Optional stainless steel hanging brackets available on request.

- IP66: Brass body inserts allows for hook, wall/ceiling brackets or pole clamps to be used.

Ambient Temperature Rating: -10°C - +45°C

Ingress Protection Grade: IP65 standard/IP66 on request.

Emergency Mode: Emergency options available on request.

Photometric Data: Photometric files available on request.

Warranty: 1 Year



N20-LED 600/1200

The N20-LED linear luminaire range is a high-performance LED industrial stainless steel luminaire. The luminaire is designed to replace the conventional fluorescent lamps which make it energy efficient with high performance, low maintenance and longer life span. It's suitable for wall, ceiling, bracket and pole mounting. The N20-LED continues the proud heritage of NORDLAND LIGHTING's quality standards whilst utilizing the latest LED technology.

Applications: All non-hazardous Industrial, Mining and Highly corrosive areas.

Body: Manufactured from Stainless steel grade 304. Marine grade 316 available on special order. The single piece deep drawn body may not be drilled on site.

Clips: Double acting stainless steel clips.

Lens: 4mm thick clear tempered plate glass.

Gasket: Extruded silicone one piece gasket.

Lens Frame: Pressed from a single piece stainless steel sheet without joining welds and with extra wide ends for increased rigidity.

Frame Suspension: The lens frame is suspended on two points along one side of the body to allow the glass frame to swing open during servicing.

Control Gear: Aluminium gear tray carries the LED driver and LED strips, or LED tubes and is also designed to act as a

reflector. Two cords allow the gear tray to be suspended from the body during installation and service.

Cable Entry: Threaded 20 mm entry provided for a gland via a special welded insert boss is positioned about 60mm from the mounting surface to facilitate installation. Corrosion resistant glands are recommended for use with stainless steel light fittings. Single gland entry standard.

Mounting: 8mm threaded nut welded into the rear mounting brackets allows the luminaire to be mounted using either brackets, or pole clamps.

Wire Guard: A stainless steel wire guard is available as an optional extra on the 4ft version only.

Emergency Mode: Emergency Options available on request.

Photometric Data: Photometric files available on request.

Warranty: 5 Years LED strip / 1 Year LED tube.

SENSOR



NMS 1100

The **NMS 1100** Microwave Sensor is an active pre-set motion detector. The Sensor emits high frequency electro-magnetic wave (5.8GHz) and receives the echo from movements in the detection zone. An internal micro-processor then triggers and connects the load to the "switch light ON" command. Detection is possible through doors, glass panes or thin walls. The Microwave Sensor is suitable for use in indoor areas. The NMS 1100 continues the proud heritage of NORDLAND LIGHTING's standards whilst utilizing the latest technology.

Applications: Industrial, commercial, office and warehouse application.

Setting Sensitivity (range): The range is the distance of the circular detection zone produced on the ground in an open area adjacent to where the NMS 1100 Sensor is mounted.

Minimum range – (approx. 2m)

Maximum range – (approx. 10m)

Note: The above detection distances are based on a person who is between 1.6m/1.7m tall moving

at speed of 0.6 – 1.5m/sec. Detection range will differ depending on the height and stature of the person moving within the detection zone.

Time 'ON' Setting: The luminaire can be set to stay 'ON' for any period of time between approximately 8 seconds to a maximum of 12 minutes. Any movement detected will re-start the timer therefore holding the lighting on.

Daylight Control Setting: The light response threshold can be adjusted from, Approximately 2 Lux to 2000 Lux.

STREET



NST LED Streetlight

The **NST LED Streetlight** luminaire is aimed to provide superb lighting distribution with special designed optic lenses. This luminaire is perfect for the lighting of Freeways, Main Roads, Branch Roads, Toll Plazas & Residential Road Lighting etc. The Streetlight is designed to replace the conventional HID light sources and suitable for pole mounting. Modern design, simple and exquisite smooth lines, energy efficient with high performance, low maintenance and long life span. The NST LED streetlight continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Suitable for Freeway, Main Roads, Branch Roads, Toll Plazas, Commercial Areas, Security, Parks & Residential Road Lighting

Housing: Manufactured from aluminium alloy and finished in a silver grey powder coating.

Lens: Tempered IK08 glass lens with high output polycarbonate optical lens provide outstanding uniformity and efficiency.

Gasket: The silicone sponge gasket between the glass lens and housing provides a IP66 seal for outdoor use.

Control Gear: Constant Current LED driver 100V/240V, 50/60Hz. Built-in 10kV surge protection.

Mounting: The body uses aluminium bottom or side entry

spigots for pole mounting. The spigots can be adjusted between +15° ~ -15°.

Spigot diameter: 34mm, 42mm, 60mm, 76mm

Beam Angles: The polycarbonate optic lenses allows for various streetlight distributions.

Dimming: Dimmable options available on request.

Installation: Tool Free opening allows for individual installation. The luminaire also includes a water level for level accuracy. Power would automatically turn off once the luminaire is opened for maintenance.

Rated Lifetime: >50 000 Hr. (Ta= 30°C@L70)

Warranty: 5 Years



NST-Eco LED Streetlight

The **NST-Eco LED Streetlight** luminaire is aimed to provide superb lighting distribution with special designed optic lenses. This luminaire is perfect for lighting residential, commercial, recreational areas etc. The Streetlight is designed to replace the conventional HID light sources and suitable for wall bracket and pole mounting. Modern design, simple and exquisite smooth lines, energy efficient with high performance, low maintenance and long life span. The NST-Eco LED streetlight continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Suitable for street lighting, branch roads, commercial areas, gardens, parks & residential area lighting

Housing: Manufactured from aluminium alloy and finished in a silver grey powder coating.

Lens: High output polycarbonate optical lens provide outstanding uniformity and efficiency.

Gasket: The silicone sponge gasket between the poly-carbonate lens and housing provides a IP66 seal for outdoor use.

Control Gear: Constant Current LED driver 100V/240V, 50/60Hz

Mounting: The body incorporates an aluminium side entry spigot for wall bracket and pole mounting, sizes from 42mm to 60mm.

Beam Angles: The polycarbonate optic lenses allows for various streetlight distributions.

Dimming: Dimmable options available for the 70W, 90W, 120W & 150W streetlights only.

Rated Lifetime: >50 000 Hr. (Ta= 30°C@L70)

Warranty: 5 Years

STREET



NST-Solar LED

The **NST-Solar LED** is an All-In-One LED solar-powered luminaire designed to provide sufficient illumination in most applications. The robust water and dust proof design makes the luminaire suitable for even the most remote locations across Africa. It has an integrated motion sensor that allows the NST-Solar LED to provide 100% light output when motion is detected and 50% light output when it detects no activity, ensuring preservation of the batteries capacity.

Applications: Walkway, Perimeter, Urban Roads, Rural, Security, Parking, Off-Grid Areas & Area Lighting.

Housing: Body manufactured from die-cast aluminium and powder coated.

Solar Module: Polycrystalline panel.

LED: Efficient High Power LED's used with polycarbonate optic lenses.

Battery: Lithium battery technology which provides sufficient capacity for up to 2 days when fully charged.

Motion Sensor: The luminaire will provide 50% of its light output, and as soon as motion is detected, the light output increases to 100%.

Mounting: Powder coated die-cast aluminium bracket.

Warranty: 5 years

TAMPER PROOF



NCP-LS LED Tamper Proof

The **NCP-LS LED Tamper Proof** is a range of enclosed vandal/tamper proof luminaires designed to operate LED strips and are available in 600mm, 1200mm and 1500mm lengths. The luminaire has a unique reflector design which optimizes the light distribution. The heavy-duty luminaire is designed to be used in areas subject to physical abuse with a view to vandalize and destroy. Tamper proof screws require a special tool for opening the luminaire. The NCP-LS LED Tamper Proof continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Suitable for use in Prison Cells, Subways Railway Stations, Magistrates Court Holding Cells, Police Station Holding Cells, Small factories with low mounting heights, or Covered Walkways and Mine Hostels.

Body & Frame: Manufactured from cold rolled sheet metal of minimum thickness 0.8 mm gauge. White epoxy powder coated.

Gear Tray: Manufactured from 0.8 mm gauge cold rolled sheet metal, formed to give the best light distribution.

Diffuser: 1.2 mm thick clear polycarbonate lens, with internal linear prism to limit glare. Sealed into the fabricated frame. The combination is designed for impact strength, and appearance.

Lamp Types: The gear tray is designed to house the LED strips.

Screws: Tamper Proof round headed screws are used to secure the frame to the body. A special tool is required to open this luminaire.

Conduit entry: The body has provision for a central 20mm rear entry.

Emergency Mode: Emergency Options available on request.

Night Light: Available on request.

Ingress Protection: IP54 after installation.

Photometric Data: Photometric files available on request.

Warranty: 5 Year



NCP-LT LED Tamper Proof

The **NCP-LT LED Tamper Proof** is a range of enclosed vandal/tamper proof luminaires designed to operate LED tubes and are available in 600mm, 1200mm and 1500mm lengths. The luminaire has a unique reflector design which optimizes the light distribution. The heavy-duty luminaire is designed to be used in areas subject to physical abuse with a view to vandalize and destroy. Tamper proof screws require a special tool for opening the luminaire. The NCP-LT LED Tamper Proof continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Suitable for use in Prison Cells, Subways Railway Stations, Magistrates Court Holding Cells, Police Station Holding Cells, Small factories with low mounting heights, or Covered Walkways and Mine Hostels.

Body & Frame: Manufactured from cold rolled sheet metal of minimum thickness 0.8 mm gauge. White epoxy powder coated.

Gear Tray: Manufactured from 0.8 mm gauge cold rolled sheet metal, formed to give the best light distribution.

Diffuser: 1.2 mm thick clear polycarbonate lens, with internal linear prism to limit glare. Sealed into the fabricated frame. The combination is designed for impact strength, and appearance.

Lamp Types: The gear tray is designed to operate T8 LED

tubes.

Screws: Tamper Proof round headed screws are used to secure the frame to the body. A special tool is required to open this luminaire.

Conduit entry: The body has provision for a central 20mm rear entry.

Emergency Mode: Emergency Options available on request.

Night Light: Available on request.

Ingress Protection: IP54 after installation.

Photometric Data: Photometric files available on request.

Warranty: 1 Year

TAMPER PROOF



WVB-LT LED Tamper Proof

The WVB-LT LED Tamper Proof is a range of enclosed vandal/tamper proof luminaires designed to operate with T8 LED tubes and are available in 600mm, 1200mm and 1500mm lengths. The luminaire has a unique reflector design which optimizes the light distribution. The heavy-duty luminaire is designed to be used in areas subject to physical abuse with a view to vandalize and destroy. Tamper proof screws require a special tool for opening the luminaire. The WVB-LT LED Tamper Proof continues the proud heritage of NORDLAND LIGHTING's quality standards.

Applications: Suitable for use in Prison Cells, Subways Railway Stations, Magistrates Court Holding Cells, Police Station Holding Cells, Small factories with low mounting heights, or Covered Walkways and Mine Hostels.

Body & Frame: Manufactured from cold rolled sheet metal of minimum thickness 0.8 mm gauge. White epoxy powder coated.

Gear Tray: Manufactured from 0.8 mm gauge cold rolled sheet metal, formed to give the best light distribution.

Diffuser: 1.2 mm thick clear polycarbonate lens, with internal linear prism to limit glare. Sealed into the fabricated frame. The combination is designed for impact strength, and appearance.

Lamp Types: The gear tray is designed to operate T8 LED

tubes.

Screws: Tamper Proof round headed screws are used to secure the frame to the body. A special tool is required to open this luminaire.

Conduit entry: The body has provision for a central 20mm rear entry.

Emergency Mode: Emergency Options available on request.

Night Light: Available on request.

Ingress Protection: IP54 after installation.

Photometric Data: Photometric files available on request.

Warranty: 1 Year

TUBES



T8 LED TUBES

Applications: All non-hazardous Industrial, Storage, Cold rooms, Parking areas and Offices

The T8 LED Tube has been characterized by its long life, high lumen efficacy and high safety performance.

The LED tube is manufactured from clear or frosted glass and they replace the traditional T8 fluorescent

lamps. The LED tube has a built-in constant current driver, with

over current and over voltage protection.

High light transmittance and soft light colour, available in 1200mm and 1500mm lengths.

600mm LED tubes are available on request.

Applications: All non-hazardous Industrial, Storage, Cold rooms, Parking areas and Offices

INGRESS PROTECTION RATING

IP ratings

The international protection system for enclosures (IP) is particularly relevant for hazardous areas. A non-sparking electrical apparatus, for example, will have an IP64 rating. The first digit indicates the degree of protection against touching live parts and the ingress of dust. The second digit indicates the degree of protection against the ingress of liquid. Table below lists all the IP ratings.

IP ratings table

| DIGIT | DEGREE OF PROTECTION AGAINST SOLIDS | SECOND DIGIT | DEGREE OF PROTECTION AGAINST LIQUIDS |
|-------|-------------------------------------|--------------|---|
| 0 | Non-protected | 0 | No special protection |
| 1 | Protected against solids > 50 mm | 1 | Protected against dripping water |
| 2 | Protected against solids > 12 mm | 2 | Protected against dripping water at 15° angle |
| 3 | Protected against solids > 2,5 mm | 3 | Protected against spraying water |
| 4 | Protected against solids > 1 mm | 4 | Protected against splashing water |
| 5 | Dust-protected | 5 | Protected against water-jets |
| 6 | Dust-tight | 6 | Protected against heavy seas |
| | | 7 | Protected against effect of immersion |
| | | 8 | Protected against immersion |