

















HIGH BAY PRISMPACK[™]

Inspired by our history, designed to be distinctively different and taking high bay lighting to new levels of lumen output with superior light control, the new **Prismpack™** combines the latest in highly efficient LEDs and redefines the standard for digital highbay lighting. The new generation Prismpack delivers solutions that can be totally tailored to specific customer applications.

For over 125 years Holophane has enjoyed an enviable reputation throughout the world for expertise, quality and innovation in Lighting. From the earliest days, when the company pioneered its famous glass refractor, the Holophane name has been ever present as a leader in the field of luminaire and lighting design. Prismpack is a continuation of this proud tradition and builds on our heritage of designing highbay luminaires with exceptional optical performance and thermal management which fused together deliver a solution that is scalable, flexible and fully serviceable.





Applications

- Heavy Indust
- Factories
- Production
- Manufacturin:
- Foundries
- Warehouses
- Assembly Aleas
- Sports

Overview

- Available with lumen ranges from 10,000 to 120.000 (delivered lumens).
- Three distribution options (Narrow, Medium and Wide)
- 4000K, 5000K & 6500K options available
- CRI > 8
- Efficacies of up to 150lp
- Available with integrated control and emergency options (c.1,000lm in emergency mode).
- System Life 100,000 Hrs at 45°C
- System Life 50,000 Hrs at 70°C (High Ambient Version)

TM66 CEAM-Make Rating

Preliminary Rating: 2.5 (Excellent circularity)

Approvals



Complies with EN60598

DIN 18032-3/DIN EN 13964 (with .WG option)

IP65

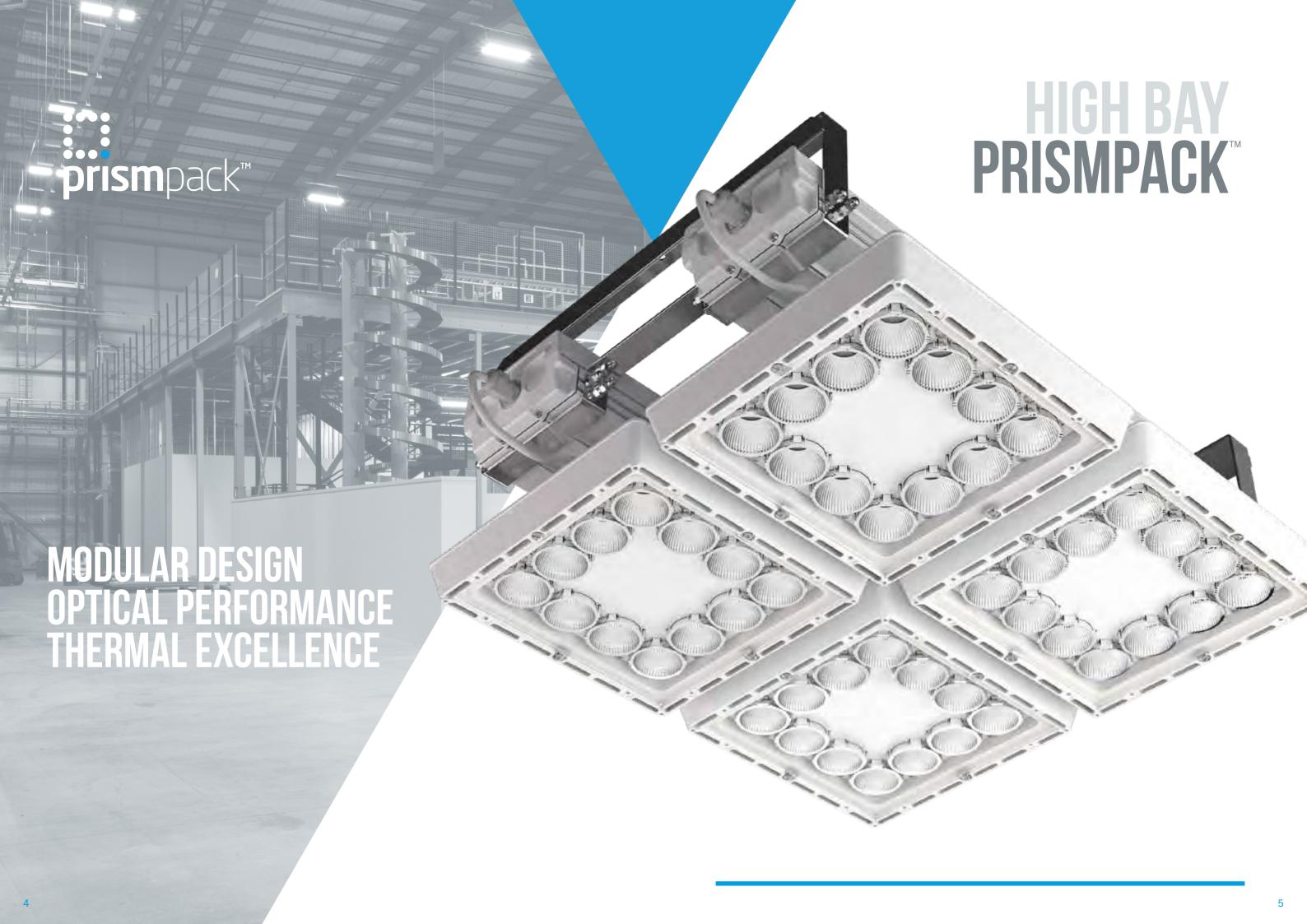
-25°C to 70°C*

*Max lumen output of 60,000 at TA of 50°C to 70°C





For further information please visit the Holophane website **www.holophane.co.uk**





Features and benefits

Scalable System

- Lumen ranges from 10,000 to 120,000 achieved via five system sizes which deliver exceptional ROI for a multitude of applications.
- Mounting options to accommodate a variety of onsite installation challenges.

Exceptional Optical Performance

- Incorporates PrismaLED technology which delivers a wholly luminous lit effect that accurately controls the output of the LEDs and reduces glare.
- Optimax,[™] inspired by Holophane's Superglass optical technology, maximises performance with today's digital technologies. Optimax is designed to deliver a low glare, visually comfortable, efficient lighting system.

Enhanced Lumen Maintenance

- Vertical ventilation slots in the luminaire heat-sink convect heat from the housing and creates air movement away from the glass optic to minimise dirt accumulation on the optical surface.
- The glass lens ensures a low electrostatic charge which make it less susceptible to dust and dirt accumulation so improving dirt depreciation over time. This means that higher value Maintenance Factors, MF, can be used in design

Flexibility

• Suitable for ambient temperatures of up to 70°C enabling the luminaire to be used in various environments.

Fully Controllable

- Integrated Control and emergency options.
- Compatible with HOLOSAir Lite, HOLOSAir and HOLOS Wired.



OPTIMAX STORY

Optimax[™]explained

Holophane's new Optimax™ reflector technology draws on generations of optical expertise to deliver market leading performance and quality of light from an industrial high bay. The modular facetted reflector technology is designed to give precise optical control and deliver the potential for an extensive choice of lighting distributions available to tailor your lighting design to the geometry of the building structure. Light is precisely controlled for optimum efficiency. The deep shielding of the light source reduces glare from the LEDs. This combined with a low reflector wall brightness, ensures maximum visual comfort.

Prismpack provides flexibility in the design process. Many different lumen packages combined with spacing to height ratios (SHR) from 0.5:1 to 1.6:1 (narrow, medium and wide distributions) allow the designer to tailor the lighting needs to fit the shape of the building exactly. This increases light utilisation and improves the efficacy still further.

Low Glare — Visual Comfort

The unique Optimax design dramatically reduces the apparent brightness of the Prismpack when compared with other high output high bays. Light emitted from the LEDs is spread over each Optimax™ reflector which in turn builds up in a modular structure allowing the light to be spread over the optical surface and reducing multiple point sources and producing a visually comfortable appearance.

Highest Quality Product

The quality of the Prismpack luminaire is self-evident. The reduced cost of overall installation for Prismpack lighting design which in turn reduces installation costs of switch gear, cables, trunking when compared to a regular LED high bay solution.

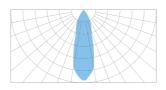
LOW GLARE

Bespoke optical structures created to maximise the performance from LED technology whilst delivering total lighting control.

Narrow 0.5:1 SHR



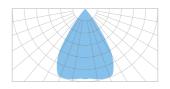




Medium 1:1 SHR



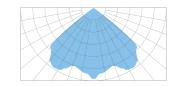




Wide 1.6:1 SHR







PRISMALED STORY

Holophane's history lies in it being the first company to give practical application to the principles of the prism as the ultimate means of light control, harnessing and redirecting the output of light source by prismatic means to provide the best in cost effective, efficient lighting. Over 120 years ago Holophane sold the first patented light diffusing globe using borosilicate glass.



Today these principles remain core to Holophane's products and technologies, culminating in our PrismaLED technology. Holophane products featuring PrismaLED technology deliver the following benefits:

Volumetric Illumination

'Volumetric illumination' delivers an optimal mix of light to walls, partitions, vertical and horizontal work surfaces. This results in reduced shadow and increased perceived volume of space. Studies have indicated that increased lighting levels in horizontal and vertical illuminance increase the productivity up to 5.7%*.

Reduces Glare

Without a lens, LEDs can cause discomfort glare when viewed from certain angles. The PrismaLED prismatic lens reduces glare by increasing the luminated surface area of the fitting thus, providing a more attractive and comfortable lighting environment.

Maximises Colour Consistency

Over time, LEDs can discolour and fade, which leads to an inconsistent colour of light. The PrismaLED lens distributes the light from individual LEDs so that any colour change is consistent.



Representation of a sample industrial building with objects, using direct light high bay luminaires.



Representation of the same scene using luminaires with PrismaLED technology.

Minimises LED Failure effect

When using either a clear glass or plastic lens, individual LED failures can result in black spots in the light distribution. With a PrismaLED prismatic lens, the effect of a failed LED is greatly reduced, resulting in a more uniform appearance.

Provides superior optical control

Standard lenses can create an uneven and poor distribution in lighting environments. PrismaLED optics have superior control over the light output, resulting in a more uniform distribution.

**Source: Mack trucks, Pa. USA, EC&M



WHY GLASS?

Holophane has chosen to focus its R&D energy to deliver two glass lens options (clear or prismatic), which not only protects the reflectors and LEDs, but also delivers a number of benefits to you, the customer.

Glass is actually a very difficult material to work with in manufacturing, but we have chosen to invest heavily in this material because it has great economic advantages in application. Here are just a few of these advantages:



Thermal shock

Glass shows very low thermal expansion or contraction and this means better sealing of joints due to less movement.



UV impervious

Sunlight, daylight and LED radiation do not affect glass. There is no change with prolonged exposure to sunlight, ultra violet or infrared radiation.



Longevity

Doesn't degrade over time!



Temperature resistance

Glass comfortably resists any temperatures reached inside or outside luminaires.



Chemical resistance

Glass is unaffected by just about any chemical found in industrial applications.



Low dirt accumulation

Glass doesn't build electrostatic charge unlike metals and plastics.



Recyclable

Made from recyclable glass.

THERMAL MANAGEMENT

The reliability and performance of an LED luminaire is dependent on a combination of factors. Keeping the Tc point (the Tc is the hottest part of an electrical component) of the control gear, LEDs etc as low as possible is critical to maintaining the luminaire's efficiency.

The selection of quality materials used in components such as the gear and optical housings is equally as critical in ensuring that the heat generated by the electrical components is thermally managed.

Prismpack utilises all three heat transfer principles of conduction, convection and radiation. This ensures that the LEDs mounted to the aluminium backed PCB and the electronic drivers are thermally managed well within their limit to maximise system life. The drivers are mounted within their own, thermally decoupled, housing away from the LEDs to ensure that heat generated by each individual electronic component does not adversely affect the other.



Conduction

Taking heat away from electronic components, LEDs and drivers.



Convection

From luminaire heat sink chassis and driver housing to ambient air.





Surface finish and form designed to maximise heat radiation.



Suitable for ambient temperatures of up to 70°C enabling the luminaire to be used in various environments.

Thermally balanced LED Module

Prismpack has been designed to operate in a thermal equilibrium. The LED clusters are placed at equal-distance from both the LED Module cooling vents and the adjacent LED clusters.

This ensures a minimal temperature variation across the LED population within the fitting giving the following:

- Improved system reliability, minimising premature LED failures
- LEDs degrade at equal rates, ensuring the validity of system life data



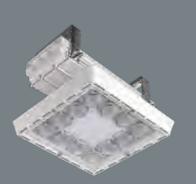


Modularity

Prismpack has a modular design that has been developed with an approach that subdivides the luminaire system into individual modules (LED) and gear housing that are fully scalable, maintainable and upgradeable.

Scalability

Prismpack is a fully scalable luminaire that has been developed around one LE module that has the capability to be use in an arrangement of 1 to 6 modules. This creates a luminaire that ensures visual and performance consistency with a lumen package from 10,000 to 120,000 thus enabling it to be used for all types of interior applications.







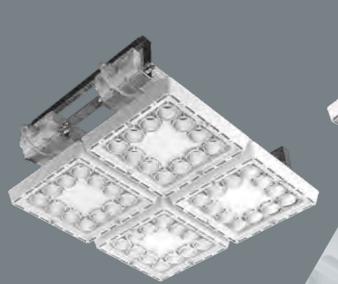
Up to 81,000 lumens

Up to 54,000 lumens

Up to 27,000 lumens

Recommended mounting height range: 5m - 16r

MODULARITY SCALABILITY



Over 100,000 lumens

Up to 80,000 lumens

Recommended mounting height range: 16m - 25m+

up to 150 lm/W

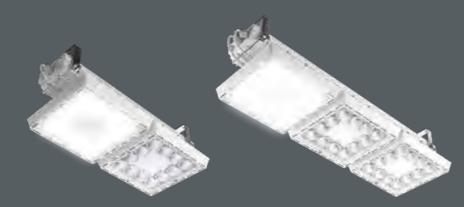
Across 1 to 6 module configurations

INTEGRATED EMERGENCY OPTION

Prismpack has been designed with a class leading 1hr or 3hr integrated emergency that delivers c.1,000 lumens. Eliminating the need for additional emergency fittings within your installation.

Prismpack is alternatively available with an internal DC fuse that accepts 176-275V DC if used with a central battery system. In this configuration the luminaire will dim to 15% of output.

emergency C.1000 lumen output



When in emergency mode only the first module in Prismpack will be powered.

Note: Emergency options are not available with LB27X8/LB54X8/LB81X8 lumen packages.

EMERGENCY

Serviceability

Serviceability is the ease with which a product can be maintained or serviced in order to isolate and replace any faulty components without having to replace the whole gear compartment or optical system.

With an easily removable gear cover, emergency batteries within Prismpack can be accessed, changed and replaced in-situ.

Step 1



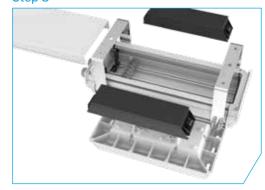
Remove gear housing cover

Step 2



Remove driver (or emergency battery) and disconnect from housing

Step 3



Install new driver (or emergency battery) with existing fasteners and reconnect

Serviceability

Serviceability is the ease with which a product can be maintained or serviced in order to isolate and replace any faulty components without having to replace the whole gear compartment or optical system. Prismpack has been designed to deliver all of these benefits to the end user — throughout the lifecycle of the product. With its easily removeable gear cover, it allows the electronic gear to be accessed and replaced in-situ.

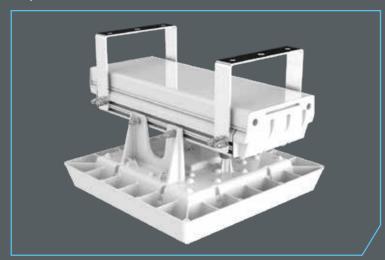
Step 4



Put gear cover back on

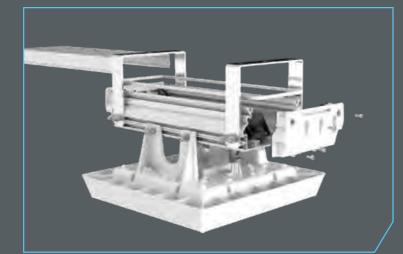
SERVICEABILITY

Step 1



Remove gear housing cover

Step 2

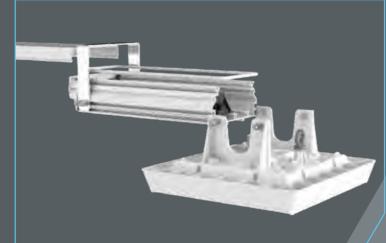


Remove gear cover and undo electrical termination. Remove end cap and mounting bracket.

Upgradability The modularity of **Pris**

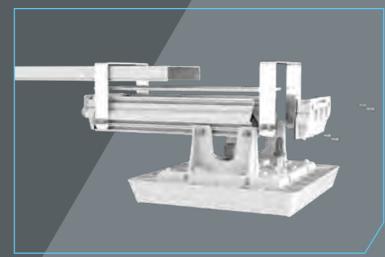
The modularity of **Prismpack** makes this LED luminaire future proof. The LED modules can be upgraded - not only making the luminaire fully maintainable but completely upgradeable - as LED efficiency improves so can your luminaire. Prismpack also has an optional, centrally mounted Zhaga socket for future upgrades and the addition of sensors.

Step 3



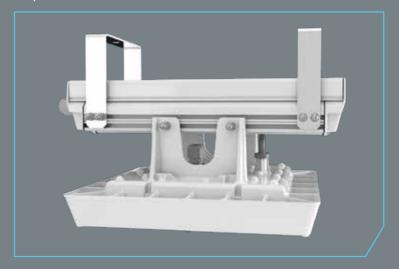
Loosen LED module fixing nut and slide out module.

Step 4



Bring new module in and rewire into gear housing. Redo bolt and secure bracket then end caps.

Step 5

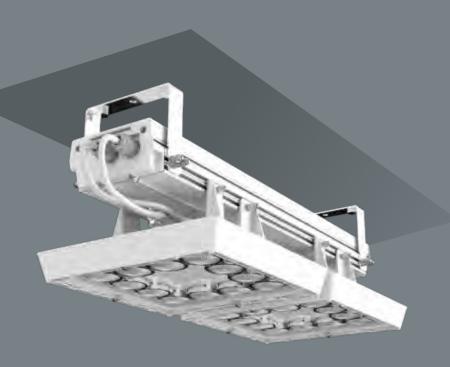


Replace gear cover.

UPGRADABILITY

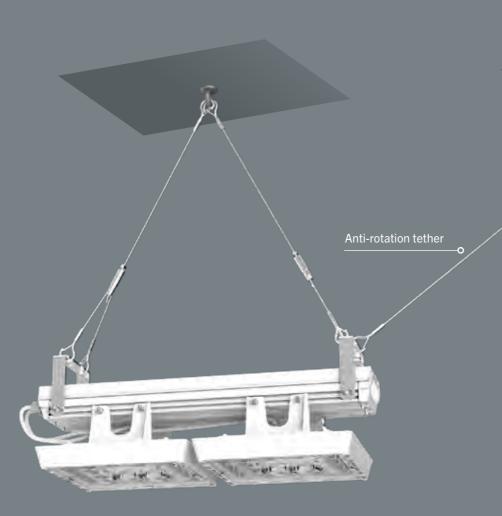
INSTALLATION

Prismpack is a versatile and efficient lighting system that provides intelligent solutions for any lighting task. The luminaire system can be used surface mounted, single point suspended or twin point suspended. The luminaire will always with 3m flying lead (5-core or 6-core if be supplied with a universal bracket that allows for surface mounting or suspension

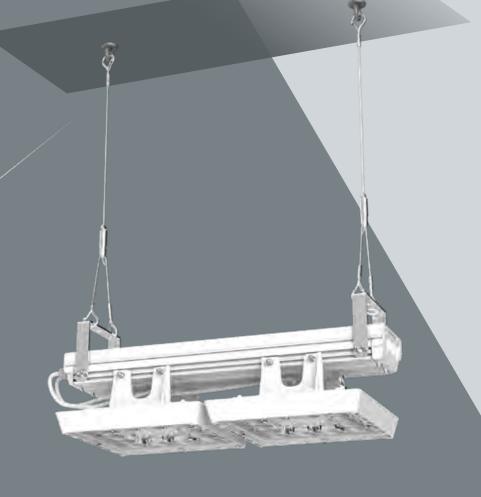


Surface mount

Note: as standard Prismpack is supplied with mounting brackets manufactured from zinc plated mild steel. For brackets suitable for for marine environments the .SB option can be used where the brackets will be manufactured stainless steel (316).



Single-point suspension with anti-rotation tether*



Twin-point suspension*

FLEXIBILITY

SUSTAINABILITY ENVIRONMENTAL



Innovation and sustainability is at the core of the products we build.

Here, at the intersection of sustainability and technology, we're ensuring we design and manufacture innovative products that not only perform but also enable a more sustainable product lifecycle.

We achieve this in Prismpack by applying something we call the 4-pillars of Eco-Design, which is integral to our product development process.

Sustainable

More with less

- Use of recyclable materials (aluminium & glass as examples)
- Reduce unnecessary materials
- Reduce component weight
- Reduce component count
- Use components that have use in other luminaires
- Reduce labour times and energy usage in manufacture

Serviceable

Ensure product longevity

- Making the product upgradable
- Designing in simplicity:
- Easy to install features
- · Ease of access to internals
- Tool-less entry
- Ensuring spares are easily available
- Manuals to enable customer servicing and repair

Scalable

Tailor the product for application

- Design-in scalability
- · Product form-factor is sized for application - (multiple sizes to match lumen output)
- · Reduce material 'waste'
- Flexible mounting options for different applications and uses

Separable

Environmentally friendly & recyclable

- · Making luminaires easy to disassemble (i.e. non-permanently bonded components)
- Making materials used easy to separate
- Marking of materials to ensure quick identification



CIBSE TM66:2021 economy in the lighting industry



PERFORMANCE COMPARISON

energy saving

It is critical that customers of production and manufacturing applications find ways to reduce the amount of energy required to light their facilities. Global climate change initiatives, such as the Paris Climate Agreement, mean that countries and the businesses within them have targets to meet in the overall reduction of carbon emissions. Prismpack is an LED luminaire system that can enable significant energy savings whilst also providing instant light and the possibility to dim the light level instantly.

Energy consumption (kWh)

150

Equivalent

Equivalent

LED high bay

LED high bay

Year 1

127

Prismpack™

Year 1 Total CO₂ (tonnes)

66

Prismpack™

New Build

Design Parameter Scenario 1 **Production Space**

- · Dirty Environment
- Reflectances C40% W30% F20%
- Room Dimensions (m) 100 x 100
- Total Area 10.000m²
- · Luminaire installation height of 16m
- Target Lux 300 lux Uniformity ->0.6 as per EN12464-1:2011
- Facility operating 12 hours per day, 365 days a year
- 2 years cleaning cycle

Product Used

110 Prismpack high bay luminaires

- Luminous flux: c 38,000
- Luminous efficiency: 145 lm/W
- Uniformity: 0.68
- UGR: 20

- Luminous flux: c 33,602
- Luminous efficiency: 129 lm/W
- Uniformity: 0.61

Benefits

- capital and installation costs
- Lower glare rating

- 2.89 W/m²

132 Equivalent LED high bay luminaires

- UGR: 23
- 3.43 W/m²

- 17% less luminaires reducing
- 16% energy reduction for the installation
- Over 12 tonnes of CO₂ saved

REDUCE COSTS



Retro Fit

Design Parameter Scenario 1 **Heavy Industry Space**

- Dirty Environment
- Reflectances C40% W30% F20%
- Room Dimensions (m) 100 x 100
- Total Area 10.000m2
- · Luminaire installation height of 26m
- Target Lux 300 lux Uniformity ->0.6 as per EN12464-1:2011
- Facility operating 24 hours per day, 365 days a year
- 2 years cleaning cycle

Existing Luminaires

49 1000W HID high bay luminaires

- Luminous flux: 88,781
- · Luminous efficiency: 89 lm/W
- Uniformity: 0.57
- UGR: 27
- 4.90 W/m²

Product Used

49 Prismpack high bay luminaires

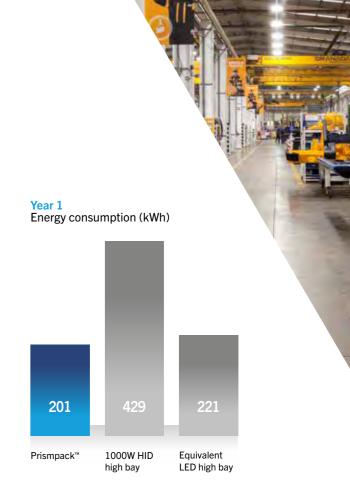
- Luminous flux: 70,441
- Luminous efficiency: 150 lm/W
- Uniformity: 0.75
- UGR: 18
- 2.30 W/m2

49 Equivalent LED high bay luminaires

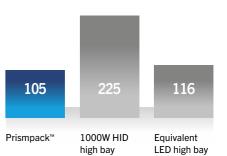
- Luminous flux: 68,002
- Luminous efficiency: 132 lm/W
- Uniformity: 0.67
- UGR: 21
- 2.56 W/m2

Benefits

- 53% Year 1 energy saving vs 1000W HID
- 10% Year 1 energy saving vs LED equivalent
- Over 100 tonnes of CO₂ saved
- 24% improvement in uniformity
- Reduction in glare



Total CO₂ (tonnes)



CONTROLS

When equipped with optional embedded controls devices, the Prismpack luminaire can provide additional energy savings. These fully programmable sensors dim the luminaire to pre-set illumination levels when motion is no longer detected and will return the luminaire to full illumination, without distracting flash, within three seconds of sensing movement. Each sensor also detects ambient light, so perimeter fixtures can be dimmed to minimum when sufficient daylight enters the structure. The factory fitted HOLOSAir wireless node introduces the latest "mesh" wireless technology and replaces wired communication signals between luminaires with trouble free wireless system that reduces the requirement for controls cables to each luminaire. PIR option (3 to 17m mounting height).

HOLOSAirlite HOLOSWired



.TZ02 Option

Complete with 4-Pin Zhaga
Socket - Bottom



.TZP Option

Complete with 4-Pin Zhaga
Socket - Bottom with a PIR
attached

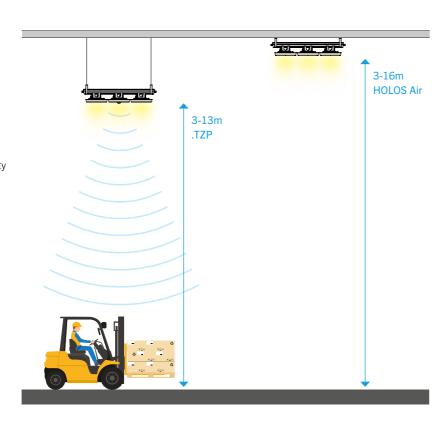
Factory Defaults for .TZP

High mode: 100%
Low mode: 40%
Time delay: 5 minutes
Cut off: Disabled
Setpoint: Disabled
Sensitivity: Max
Ramp up time: Disabled
Fade down time: Disabled
Photocell On/Off: Disabled



The **D4i architecture** provides a future-proof foundation that enables users to build on whenever their site/ project is ready to opt into

new advances in technology. It is designed to work with industry-recognized, futureproof drivers and sensors that have the potential to increase energy efficiency and collect different types of data. By having Prismpack D4i ready customers can upgrade/adjust the controllability of their lighting whenever they are ready.



ORDERING DETAILS

Presidence Presi	Code	Luminaire (required)											
LANDOSS LANDOS			A												
LM008	PPH														
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TZO2* Complete with 4-Pin Zhaga Socket – 'Bottom' (suitable node/presence detector supplied by others) with weather proof locking top? TZP* Complete with 4-Pin Zhaga Socket – 'Bottom' with a PIR (attached) for 360°, asiale and end of aisle. From 3 to 13 metres mounting, fitted. PLO Integrated PIR, suitable from 4.5m to 9m. Switches off after 10 minutes of inactivity-switching-only functionality. Remotely re-programmable with accessory HEL. PRG (purchased separately). PL1 Integrated PIR, suitable from 4.5m to 9m. Dims to 30% after 10 minutes of inactivity-switches off after further 10 minutes. Remotely re-programmable with accessory HEL. PRG (purchased separately) WIL Integrated wireless node, supports grouping, suitable from 7m to 9m - includes PIR & photocell (Requires SER.COM.DAY or SER.COM.NIGHT commissioning) Ocid Guard WG Wire guard Ocid Fixing Method CA Safety Chain Attachment (chain not included) Ocid Enclosure (option) SF Silicon free* Ocid Suspension (option) SB Supplied with Stainless Steel 316 mounting brackets. Suitable for marine environments.									.WIH						
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aisle and end of aisle. From 3 to 13 metres mounting. fitted PLO Integrated PIR, suitable from 4.5m to 9m. Switches off after 10 minutes of inactivity switching-only functionality. Remotely re-programmable with accessory HEL.PRG (purchased separately). PL1 Integrated PIR, suitable from 4.5m to 9m. Dims to 30% after 10 minutes of inactivity switches off after further 10 minutes. Remotely re-programmable with accessory HEL. PRG (purchased separately) WIL Integrated wireless node, supports grouping, suitable from 7m to 9m - includes PIR & photocell (Requires SER.COM.DAY or SER.COM.NIGHT commissioning) Ode Guard Wire guard Code Fixing Method CA Safety Chain Attachment (chain not included) Ode Enclosure (option) SF Silicon free* Ode Suspension (option) SB Supplied with Stainless Steel 316 mounting brackets. Suitable for marine environments.									202						
PS LLM10X8 .1M .ND .C1 .PGL .LRD .VDC .WI .WG .CA .SF									.TZP*						
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photocell (Requires SER.COM.DAY or SER.COM.NIGHT commissioning) Code Guard .WG Wire guard Code Fixing Method .CA Safety Chain Attachment (chain not included) Code Enclosure (option) .SF Silicon free* Code Suspension (option) .SB Supplied with Stainless Steel 316 mounting brackets. Suitable for marine environments.															
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xample	PS	.LM10X8	.1M	.ND	.C1	.PGL	.LRD	.VDC	.WI	.WG	.CA	.SF			
	xampl	e				1				1		1	•		

* Not available with PPH. † Not available with .LRD.

Note: Luminaire will always be supplied with a universal bracket that allows for surface mounting or suspension mounting (suspension kits available as accessory item). Supplied with 3m flying lead (5-core or 6-core if emergency).

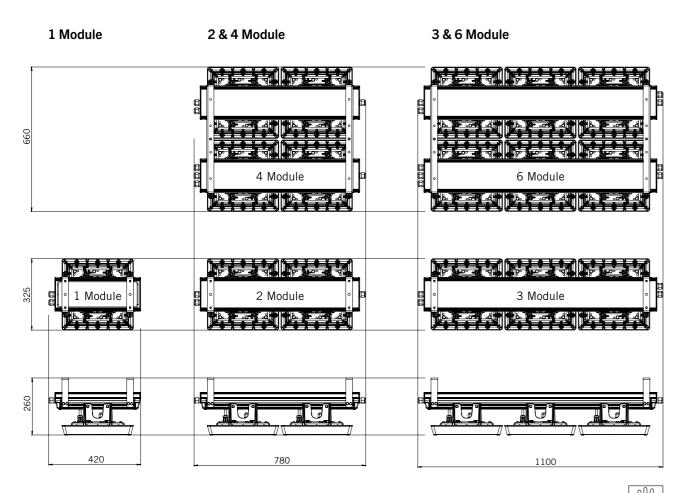
Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturer's data) and luminaire power of +/- 5%.

Accessorie

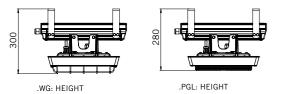
PPS.SUS Suspension kit (1m) - includes 2 x suspension wire, fixing kit and anti rotation tether for single point suspension

HEL.PRG Remote programming device. Suitable for luminaires with options PH0/PL1/PH1 PIR devices. Programming range up to 20m.

DIMENSIONS & PERFORMANCE



Note: Mechanical dimensions only. Space taken up by led-module to electrical compartment cabale not included. Please allow an extra 60mm in each side for cable. Please allow an extra 150mm for side mounted sensor.



Weight kg*

1 Module	7.1
2 Module	13.0
3 Module	19.1
4 Module	27.7
6 Module	39.8

Note: The specifications of the Holophane luminaire represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue and website represent only general particulars of the goods to which they apply and shall not form part of any contract. The company reserves the right to change specifications at its discretion without prior notification or public announcement.

Configuration	Delivered Lumens*	LED Modules	Drivers	Power Usage (W)	Luminaire Efficacy (lpw)	Rated Life of LED Module (L70B50 @tq 40°C)
Standard Version						
PPS.LM1048.M1	9,600	1	1	64	150	100,000 hrs
PPS.LM2048.M1	19,100	1	1	138	139	100,000 hrs
PPS.LM2048.M2	19,700	2	2	131	150	100,000 hrs
PPS.LM3048.M2	29,600	2	2	204	145	100,000 hrs
PPS.LM3048.M3	29,500	3	3	197	150	100,000 hrs
PPS.LM4048.M2	38,200	2	2	276	139	100,000 hrs
PPS.LM4048.M4	39,900	4	4	266	150	100,000 hrs
PPS.LM5048.M3	49,700	3	3	348	143	100,000 hrs
PPS.LM6048.M3	57,400	3	3	414	139	100,000 hrs
PPS.LM6048.M6	59,800	6	6	399	150	100,000 hrs
PPS.LM7048.M4	69,900	4	4	494	141	100,000 hrs
PPS.LM8048.M4	76,500	4	4	551	139	100,000 hrs
PPS.LM9048.M6	89,500	6	6	617	145	100,000 hrs
PPS.LM10048.M6	100,000	6	6	701	143	100,000 hrs
PPS.LM11048.M6	109,600	6	6	781	140	100,000 hrs
PPS.LM12048.M6	114,700	6	6	827	139	100,000 hrs

High Ambient Version 100,000 hrs 100,000 hrs 100,000 hrs PPH.LM3048.M3 29,500 100,000 hrs PPH.I M4048.M4 150 PPH.LM5048.M6 50,000 100,000 hrs 333 150 PPH.LM6048.M6 59,800



31 30

dimensions in mm

 $^{{}^{\}star}\mathsf{Refers}\ \mathsf{to}\ \mathsf{standard}\ \mathsf{luminaire}\ \mathsf{only}.\ \mathsf{Does}\ \mathsf{not}\ \mathsf{account}\ \mathsf{for}\ \mathsf{weight}\ \mathsf{of}\ \mathsf{any}\ \mathsf{additional}\ \mathsf{options}\ \mathsf{or}\ \mathsf{accessories}.$





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