



## Holobay<sup>™</sup>

# The next generation of robust round high bays

Demanding environments require robust, reliable lighting, and Holobay's versatility allows it to be applied across automotive, heavy manufacturing, steel mills, sports arenas, and retail spaces.



HOL1



## Holobay<sup>™</sup>

Introducing the next generation of robust round high bays for the most demanding industrial environments, as well as large indoor, commercial, and educational facilities. With superior efficiency, spacings, and ease of installation, Holobay is the perfect solution.

Precisely engineered die-cast aluminium and borosilicate prismatic glass provide exceptional illumination, volumetric light, visual comfort, and efficiency. The hinged driver door allows for ease of installation and maintenance. Our ultra-sleek compact size and full suite of control options ensures Holobay delivers the complete lighting solutions for interior applications.

Holobay is an industrial high-bay luminaire offered in two sizes with a thermally separate, but attached, gear housing construction, this allows the luminaire to deliver a range of lumen packages and operate in ambient temperatures of up to 70°C. Holobay can provide the ideal solution for almost all industrial applications. The aluminium construction with 'central' vertical ventilation allows for exceptional thermal management of both the LEDs and the drivers.

Building on Holophane's heritage of optical design, the optical system has been developed for various mounting heights using a bespoke, glass (silicone also available) prismatic optic which is not only highly transmissive but delivers our unique PrismaLED benefits. The all-aluminium gear compartment is available in two sizes to allow for flexibility and the integration of controls and emergency options. The gear housing comes with a patented hinge feature which allows for ease of installation and maintenance. The luminaire can be suspension (via the single hook), or surface mounted using the options available.

#### **Applications**

- Factories
- Warehouses
- Distribution centres
- Aircraft hangers
- Exhibition centres
- Gymnasiums
- **Optics/light source**

- Large retail stores Railway stations
- Airports
- Indoor sports areas
- Showrooms
- Lumen packages ranging from 12,000 -70,000lm in 3 different luminaire variants, with efficacies up to 177 lumens per watt.

HOL1 Small Gear Housing: 12,000 – 30,000lm HOL1 Large Gear Housing: 35,000 – 40,000lm HOL2 Large Gear Housing: 35,000 - 70,000lm

- 4000K & 5000K colour temperature, others available upon request.
- 70 & 80 CRI, others available upon request.



**TM66** Preliminary score

Projected life of LED module (L70B50 @ Tq 30°C)\* of 100,000 hours.

\* For other life metric data in line with IEC PAS62722-2-1 and 62717 contact your Holophane Representative for details.

Approvals

Complies with EN60598



IP Rating: IP65 Ta: -20°C up to +70°C





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

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## Features & benefits



#### Two part housing

The gear compartment, separate from the optical housing, features a patented hinged lid design that allows easy access to the control gear and other components.

#### Unique ventilated design

Finned luminaire design with central ventilation channel that utilises conduction and convection to ensure heat is managed away from the critical electrical components to maintain a long system life.





For a full, in-depth video, highlighting all of the new Holobay's features please scan the QR code.

#### **Exceptional optical performance**

PrismaLED technology provides a wholly luminous effect, accurately controlling LED output and reducing glare.

Unique optical design, available in both glass and silicone, that is highly transmissive to deliver a volumetric lighting performance that ensures longevity and low maintenance. With the Silicone optic the luminaire is suitable for BRCGS (Global Food Safety Standard) environments.



#### Fully controllable luminaire

Holobay features an integral PIR option with mounting heights from 4.5m to 16m. The sensor can be set to simply switch on/off after inactivity or be programmed on-site to suit the application.

Integrates with Holophane's HOLOSAir system for cloud control, grouping, and advanced reporting.

Plug and play controls via bottom-mounted Zhaga socket (controls solution supplied by others).

#### Scalable system

Two sizes designed to deliver the optimum lighting solution for all industrial high bay applications.

Mounting options to accommodate a variety of onsite installation challenges.

#### **Enhanced lumen maintenance**

Vertical ventilation promoted air-flow around glass optics to minimize dust from settling onto optics, minimizing dirt accumulation.

The glass lens has a low electrostatic charge, reducing dust and dirt buildup, which improves dirt depreciation over time. This allows for higher Maintenance Factors (MF) in design calculations.

## **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 128 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%\*.

#### 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.

#### **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, in the unlikely event of a LED failing the visual effect is greatly reduced, resulting in a more uniform appearance.

#### **Reduces glare**

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

#### 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.



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

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



Representation of the same scene using luminaires with PrismaLED technology.



## Why glass?

Holophane has chosen to focus its R&D energy to deliver a unique prismatic glass optic, which 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.



## Lumen maintenance

#### What is lumen maintenance?

Lumen maintenance is a key metric for determining the lifespan or usable light output of an LED light source. Unlike traditional light sources like incandescent lamps, LEDs rarely fail completely. Instead, they continue to emit light which will gradually decrease over time.

The term lumen maintenance refers to the remaining luminous flux (expressed as a percentage of the initial output) at any given elapsed operating time. Lumen depreciation is the luminous flux lost over time, and thus the complement of lumen maintenance.

Essentially, lumen maintenance compares the light output of a light source or luminaire when it is brand new to its output at a specific future time.

#### Self-cleaning effect

Now with this taken into account, factors such as dirt depreciation must be considered and will differ, subject to the environmental factors of the application. Holobay's optical design principles takes full advantage of the self-cleaning effect. This is achieved in multiple ways.

#### **Glass refractor**

Holobay's optic is manufactured from glass which carries a low electrostatic charge, making it less susceptible to dust and dirt accumulation over time. Glass refractors have a much lower light depreciation over time vs aluminium or plastic material. When heat is generated by the luminaire, this helps to channel cooler and denser air across the low static optical glass surface thus preventing the settling of dust particles. When cleaning is required, a simple wiping of the outer surface will restore 'as new' efficiency.

#### Venturi effect

The housing is purposely designed with curved ventilation fins to channel the cooler and denser air in a way that enables a venturi-effect self cleaning air stream. This not only has the benefit of reducing the amount of dust to settle on the optical lens but also aids in keeping the luminaire cooler through consistently drawing in dense cool air which passes through critical points of the outer housing, contributing to a longer luminaire lifespan through enhanced thermal management.

#### **Customer benefits**

The graph opposite shows the Holophane glass reflector/ refractor maintenance factors over a 10-year period without cleaning. These curves can be used with confidence to calculate accurate illuminance levels throughout the chosen maintenance life of the installation. The lower dirt depreciation of Holophane industrial luminaires ensures more light from fewer luminaires yielding lower operating costs.

Electrostatic charge aluminium/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 critical thermal point 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.

Holobay 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.



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

Please contact Holophane for details on high ambient temperature versions.

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#### Conduction

Taking heat away from electronic components, LEDs and drivers.





## Convection

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

#### Radiation



Surface finish and form designed to maximise heat radiation.



#### Thermally balanced LED module

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

## **Emergency options**

Holobay has been designed with a class leading Ihr or 3hr integrated emergency kit that delivers c.700 lumens. Eliminating the need for additional emergency fittings within your installation.

Holobay can also operate on 176-250V DC when connected to a central battery system. In this setup, the luminaire will reduce its output to 15%.

#### **Hinged lid**

Easy access to replace emergency components.

#### Serviceability

Serviceability refers to the ease with which a product can be maintained or serviced, particularly in isolating and replacing faulty components without needing to replace the entire gear compartment or optical system.

Holobay features an articulating lid that provides direct access to the emergency batteries. This design allows for straightforward maintenance and replacement of the emergency components, ensuring that they can be easily serviced without significant disruption.



#### **Emergency indicator**

Clear visibility to tell the user that the luminaire contains emergency.

**Note:** Integral emergency on Holobay is only available on HOL1 with large housing up to 30,000 lumens and HOL2 up to 40,000 lumens.



## Installation & maintenance

Holobay is a versatile and efficient lighting system that provides intelligent solutions for any lighting task. The luminaire can be used in the surface mounted position, via a stirrup bracket or suspended (optional). The luminaire will always be supplied with a universal hook for mounting. For ease of electrical installation and to ensure that the integrity of the luminaire is not compromised each luminaire is supplied with 3m flying lead.

## Other mounting options









\* For more information on mounting options, please contact a Holophane representative.

### **Easy maintenance**

Holobay is equipped with a hinged lid that provides easy access to the gear compartment. This design greatly reduces the time required for installation and maintenance, making it simpler to replace components such as drivers and emergency gear when necessary.



Stirrup mount (option .SM)

#### **Crane mounting**

Suitable for industrial settings equipped with cranes or overhead lifting equipment, this mounting option allows for easy positioning and adjustment of the luminaire to achieve optimal lighting coverage in large, dynamic environments.

#### Inverted mounting

This option allows the luminaire to be installed upside down, directing light toward the ceiling.

#### Pendant mounting

Ideal for spaces with high ceilings, pendant mounting involves hanging the luminaire from a ceiling hook or structure using a cord or rod. It offers customizable height and precision in light distribution.

#### Wall mounting

Designed for environments where overhead installation is not feasible, this option allows the luminaire to be securely fixed to a wall, providing focused and directed light for specific areas or tasks.



## Controls and connected solutions

The Holophane controls solution is tiered to offer you a solution to cater for every type of project. Ranging from basic on/ off PIRs through to cloud-based controls, Holophane can offer a competitive controls solution to work around your needs.

## From simple to cloud based. A solution that works for you.

## **Benefits**

Cloud

A fully controllable cloud-based system than can easily be adapted in real-time. Maximum energy and efficiency savings.

Connected

Wireless grouping of luminaires enabling installations to have groups of luminaires activated. Perfect for aisles, racking or specific areas.

## Intelligent

Added dynamic functionality enables areas to adapt to ambient light levels. Ideal for busy areas.

Simple

Immediate energy savings, through on/ off switching and daylight detection.

Cloud HOLOSAir	We call this control solution HOLOSAir. Holophane's cloud-based system with added digital functionality and enhanced control of luminaires	On/off & dynamic dimming     Wireless grouping of multiple luminaires     Daylight sensing     Web based cloud control and analytics     Emergency reporting     Failure reporting     (WIL/WIH + HSA GATE)
Connected	All the same features as the intelligent PIR but with added luminaire grouping functionality	On/off & dynamic dimming Wireless grouping of multiple luminaires Daylight sensing (WIL/WIH)
ntelligent	An intelligent PIR with added dynamic dimming	•On/off &dynamic dimming (PH1/PL1)
Simple	A simple on/off PIR	•On/off control (PHO/PLO)

What is the functionality?



Mounting neight	Can it be programmed?	Can it be upgraded?	
Up to 16m*	Yes, Via the Holophane Commissioning service only. Note: Requires a HOLOSAir gateway for full functionality	Yes – scalable, upgradeable	
Up to 16m*	Yes, Via the Holophane Commissioning service only	Yes – only the connected sensor can be upgraded to the cloud tier	
Up to 16m*	Yes via remote IR programmer or via the Holophane Commissioning service	No	
Up to 16m*	Yes via remote IR programmer or via the Holophane Commissioning service	No	

## **Controls**

When equipped with optional embedded controls devices, the Holobay 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, once movement has been detected.



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 Holobay D4i ready customers can upgrade/adjust the controllability of their lighting whenever they are ready.





#### .TZ02 option

Complete with 4-Pin Zhaga Socket Bottom Integrated PIR suitable from 4.5m to 16m

.PHO/PLO/.PH1/PL1 option

#### Factory defaults for .PHO/PLO option

- Switches to 100% when presence is detected.
- Switches off to 0% after a further 10 minutes of inactivity

#### Factory defaults for .PH1/PL1 option

- Switches to 100% when presence is detected.
- Dims to 30% after 10 minutes of inactivity.
- Switches off to 0% after a further 10 minutes of inactivity



## **Optics**



Narrow (.ND)



Wide (.WD)

## Uplight options

Holobay provides the option to integrate uplighting into your lighting design, enhancing the overall aesthetic and functionality of your space. Uplighting is a versatile technique that highlights key focal points, drawing attention to specific features of your building or application, creating a visually appealing effect.

All Holobay variants can be configured to support uplighting upon request, ensuring that your lighting design meets your specific needs and preferences. The output ratio from the LED modules would be 10% of the total output. Holobay can also be inverted, enabling the main optic to serve as the source of the uplighting effect as opposed to using the uplight LED modules on the rear of the housing as pictured below.





HOL2 with uplight option

HOL1 with uplight option

\* For more information on uplight options, please contact a Holophane representative.



Medium (.MD)

Aisle (.AD)

## Performance comparison

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. Holobay 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.



Year 1 Total CO<sub>2</sub> (tonnes)

Year 1



Holobay

Equivalent LED high bay



#### New build

#### Design parameter scenario 1 Production space

- Room dimensions (m) 100 x 100
- Total area 10,000m<sup>2</sup>
- Luminaire installation height of 16m
- Target Lux 300lux, uniformity –
- >0.5 as per EN12464-1:2021
- Reflectance's C50%, W30% and F20%
- Facility operating 12 hours per day, 365 days a year
- 2 year cleaning cycle

#### Product used

#### 90 Holobay high bay luminaires

- Luminous efficacy 164lm/W
- 41,408 lumens per fitting
- 251.8W per fitting
- 309 lux Uniformity: 0.51
- Energy consumption: 99,259 kWh
- 2.27W/m<sup>2</sup>

#### 108 Equivalent high bay luminaires

- Luminous efficacy 158lm/W
- 37,153 lumens per fitting
- 235W per fitting
- 312 lux
- Uniformity: 0.46
- Energy consumption: 111,164 kWh
- 2.54W/m<sup>2</sup>

#### **Benefits**

- 17% less luminaires reducing capital
- and installation costs
- 11% Year 1 energy reduction for the installation
  Over 2 tonnes of CO2 saved
- Over 2 tonnes of CO2 saved
  Provides volumetric lighting

## **30** tonnes CO<sub>2</sub> saved

#### Retro fit

#### Design parameter scenario 1 Production space

- Room dimensions (m) 100 x 100
- Total area 10,000m<sup>2</sup>
- Luminaire installation height of 22m
- Target Lux 300lux, uniformity –
- >0.5 as per EN12464-1:2021
- Reflectance's C50%, W30% and F20%
- Facility operating 12 hours per day, 365 days a year
- 2 year cleaning cycle

#### **Existing luminaires**

#### 64 1000W HID high bay luminaires

- Luminous efficacy 110lm/W
- 1000W watts per fitting
- 110,000 lumens per fitting
- 370 lux
- Uniformity: 0.49
- Energy consumption: 280,320 kWh
- 6.40W/m<sup>2</sup>

#### 64 Holobay high bay luminaires

- Luminous efficacy 171lm/W
- 70,166 lumens per fitting
- 410.7W per fitting
- 338 lux
- Uniformity: 0.53
- Energy consumption: 115,127 kWh
- 2.62W/m<sup>2</sup>

#### 64 Equivalent LED high bay luminaires

- Luminous efficacy 131lm/W
- 68,000 lumens per fitting
- 516W per fitting
- 367 lux
- Uniformity: 0.45
- Energy consumption: 144,645 kWh
- 3.30W/m<sup>2</sup>

#### **Benefits**

- \*58% Year 1 Energy saving vs 1000W HID
- \*20% Year 1 Energy Saving VS LED equivalent
- \*Over 30 tonnes of CO2 Saved

# **Reduce costs**



## Dimensions & performance

#### Typical luminaire performance (HOL1)

Configuration	Delivered Lumens	Circuit Power (W)	Driver Output Current (mA)	Total number Of LEDs	Luminaire Efficacy (Im/W)
HOL1.1.LM12X8	12,000	70	617	800	171
HOL1.1.LM15X8	15,000	87	772	800	172
HOL1.1.LM18X8	18,000	108	927	800	167
HOL1.1.LM24X8	24,000	144	622	800	167
HOL1.1.LM30X8	30,000	178	784	800	169
HOL1.1.LM35X8	35,000	211	925	800	166
HOL1.1.LM40X8	40,000	254	539	800	158

X - Denotes colour temperature (replace X with 4 for 4000K and 5 for 5000K)Note: The delivered lumens are averages of all distributions types

#### \_\_\_\_

Typical luminaire performance (HOL2)

Configuration	Delivered Lumens	Circuit Power (W)	Driver Output Current (mA)	Total number Of LEDs	Luminaire Efficacy (Im/W)
HOL2.1.LM35X8	35,000	212	908	1200	165
HOL2.1.LM40X8	40,000	244	1042	1200	164
HOL2.1.LM45X8	45,000	282	792	1200	160
HOL2.1.LM50X8	50,000	316	889	1200	177
HOL2.1.LM60X8	60,000	372	1050	1200	161
HOL2.1.LM70X8	70,000	454	641	1200	154

X - Denotes colour temperature (replace X with 4 for 4000K and 5 for 5000K)

Note: The delivered lumens are averages of all distributions types

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.

\*Refers to standard luminaire only. Does not account for weight of any additional options or accessories.













## Wireguard option

Holobay is available with an optional wire guard, designed for environments with potential physical impacts, like industrial facilities, sports complexes, or public spaces. It mitigates damage from collisions, vandalism, or other projectiles, while ensuring optimal light transmission and minimal obstruction to the luminaire's output.



HOL1 Small : 12,000 to 30,000 lumens Weight: 15kg



#### HOL1 Small (Large Housing):

35,000 to 40,000 lumens as standard. 12,000 to 30,000 lumens with integral emergency. Weight: 17kg

HOL2 Large (Large Housing): 35,000 to 70,000 lumens as standard. 35,000 to 40,000 lumens with integral emergency. Weight: 20kg



### **Ordering details**



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%

\* Distributions .AD (Aisle) & .ND (Narrow) are not available with silicone optics. \*\*Lumen codes LM35X8 to LM40X8 are not available with integrated emergency. Accessories

Suspension kit (1m) - includes 4 x suspension wire, fixing kit HOL.SUS and anti rotation tether for single point suspension

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

\*\*Lumen codes LM45X8 to LM70X8 are not available with integrated emergency.

Replace X with 4 for 4000K, 5 for 5000K



Luminaire ready to accept 186-250VDC. Luminaire will dim to 15% when powered by VDC

- .CL7 LED Programmed to deliver 70% lumen flow over the life of the luminaire .CL8 LED Programmed to deliver 80% lumen flow over the life of the luminaire
- .CL9 LED Programmed to deliver 90% lumen flow over the life of the luminaire

#### Controls (Option

- Integrated PIR, suitable from 9m to 16m. Switches off after 10 minutes of inactivity switching only functionality. Remotely re-programmable with accessory HEL.PRG (purchased separately)
- 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)
- Integrated PIR, suitable from 9m to 16m. Dims to 30% after 10 minutes of inactivity switches off after further 10 minutes, Remotely re-programmable with accessory HEL, PRG (purchased separately
- 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)
- .TZ02 Complete with 4-Pin Zhaga Socket 'Bottom' (suitable photocell/node available from Holophane or supplied by others) with weatherproof locking top

#### ode Suspension (Op Stirrup Mounting

·	oospensionnionning	
	Code	Guard (Optional)
	.WG	Wire Guard

.WG

Accessorie HOL.SUS

HEL PRG

Suspension kit (1m) - includes 4 x suspension wire, fixing kit and anti rotation tether for single point suspension Remote programming device. Suitable for lumingires with options PHO/PL1/PH1 PIR devices. Programming range up to 20m.

## EarthLIGHT Lighting built on sustainability

EarthLIGHT is a central tenet of Acuity brands' strategy and reflects our comprehensive approach around ESG topics.



Through EarthLIGHT, we improve our operations, social responsibility and products to aid customers in lessening their carbon emissions and create a more sustainable environment.

### Our 4 pillars of eco-design constantly push us to create the most sustainable products

#### Pillar 1

Pillar 3

Serviceable

Ensure easy access to internal components Spares are easily available to enable custome

All our products are:

Simple in design

servicina and repair

Upgradable

### **Sustainable**

Creating the best luminaires with the least amount of resource

#### How are we doing it?

- To make use of recycled materials where we can
- · Reducing unnecessary materials,
- be used in other luminaires
- Reduce labour time and energy usage





Customising the product required, exactly as its needed

#### We offer:

Pillar 2

- Products that are scalable to accommodate
- new features Form-factor sizing for each application

- Separable
- Our commitment is to further global sustainability
- All our products are:

Pillar 4

- Recyclable
- Easy to disassemble, making materials used easy to separate





# **TM66**

design out waste.

The traditional resource consumption model is linear, where raw material is collected to make products, then often thrown away once they have serviced their purpose.



## **Circular** economy

Holophane's ambitious sustainable efforts have set us on a path to obtaining several accreditations with the Lighting Industry Association and Chartered Institute of Building Services Engineers' TM66 which allow us to rate our products and follow a method to

Chartered Institute of Building Services Engineers (CIBSE) TM66 allows us to rate our products and follow a method to design outwaste, maximise value and improve maintenance so that our luminaires can be repaired, recycled, and re-used.



Following the TM66 CEAM assessment a score between 0.0 and 4.0 is generated for each luminaire. Our goal is to ensure all our luminaires achieve excellent circularity (2.5 to 4.0).

> To ensure the credibility, objectivity and consistency of our own ratings, our products are independently tested and verified through the Lighting Industry Association (LIA) Assured Scheme.





**TM66** Preliminary Score

## Holobay<sup>™</sup>



### Speak to the Holophane experts today

Get in touch to discover how, together, we can ensure your lighting space works for you and the planet.

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