

WALLPACK™





BULKHEAD WALLPACK™

The new **WALLPACK™** combines high performance LEDs and optical versatility in a robust, aesthetic design. Designed for mounting heights up to 5m, **WALLPACK™** offers a wall-mounted solution with 0% up-light to fit the needs of harsh environments and applications.

For over 120 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. **WALLPACK** is a continuation of this proud tradition and builds on our heritage of designing wall-mounted and bulkhead luminaires with exceptional optical performance and thermal management which fused together deliver a solution that is future-proof and fully serviceable.

Applications

- Frontages
- Building perimeters
- Loading bays
- Walkways
- Passage ways
- Gateways

Overview

- Available with lumen ranges from 3,000 to 9,000 (delivered lumens).
- Four distribution options (Long & Narrow, Asymmetric, High Beam Asymmetric & Forward Throw)
- 3000K & 4000K options available.
- CRI > 70.
- Efficacies of up to 135lpw.
- Available with integrated control and emergency options (c.600lm in emergency mode).
- System Life – 100,000 Hrs at 25°C

TM66 CEAM-Make Rating

Preliminary Rating: 2.4 (Definite/substantial progress to circularity).

Approvals



Complies with EN60598

IP65

-20°C to +40°C



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

PRODUCT FEATURES



Recessed light source

The LED modules in **Wallpack** are recessed into the body giving a 0% ULOR, ensuring project compliance to BREEM standards.



Performance LEDs and optics

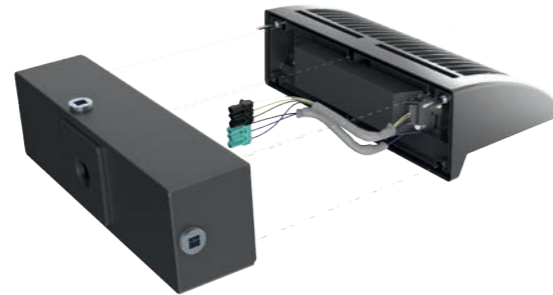
Wallpack is available in lumen packages ranging from 3,000lm to 9,000lm in 3000K or 4000K colour temperatures.

A range of four optimised optical distributions gives flexibility to achieve class leading uniformity and lux levels.



Robust design

Wallpack uses marine grade die-cast aluminium making it suitable for the harshest of industrial environment. The body and LED modules are sealed to IP65.



2-Part housing

Wallpack is constructed in two parts consisting of the LED module and back box. This design make installation easy but also ensures easy maintenance for driver or emergency battery changes.

up to
135
l/pw

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INSTALLATION AND MAINTENANCE

2-Part housing

Wallpack is constructed in two parts consisting of the LED module and back box. This design make installation easy but also ensures easy maintenance for driver or emergency battery changes.



1 Installation is via mounting the back-box to the wall first.

2 Cable entry and termination can be achieved in multiple ways via WALLPACK's backbox. There is a rear cable entry point with an IP65 cable gland and 4 threaded conduit entry points. As standard the 4 threaded

entry points are 3/4" NPT but a conduit thread adapter is available which converts the entry hole to accept 20mm conduit. When ordered with the .CTR option, 2 x thread adapters are supplied in the box.

3 The LED module is then attached to the back-box. Guide pins help the locating of the two parts. There are also retention straps which means the LED module can be hung temporarily from the back box during maintenance.

INSTALLATION

MAINTENANCE

SPECIFICATION

Specification

Two-piece die-cast aluminium housing, that conforms to EN1706 AC-46500, with integral heat sink fins to optimise thermal management through conductive cooling. 1 or 2 x10 LED modules are IP65 with individual lenses. The high grade aluminium housing transfers heat away from the LEDs and dissipates heat through the finned housing for cooling.

The LED driver is mounted separately from the LED modules to promote low operating temperature and long system life. Housing is completely sealed against moisture and environmental contaminants (IP65). Luminaire is suitable for wall mounting only. Installation via the rear-housing with cable entry via rear, top, bottom or sides.

3000K or warmer must be selected for IDA dark sky certification.

Features and benefits

Exceptional Performance

- Lumen packages from 3,000 - 9,000 lumens with efficacies of up to 135 lumens per Watt.
- 4 optimised optical distributions (Asymmetric, Asymmetric Long, Long & Narrow and Forward Throw) delivered by quality LEDs and bespoke UV stabilised PMMA optics.
- LED light engines with 0% ULOR ensuring night time friendly and BREEAM compliant

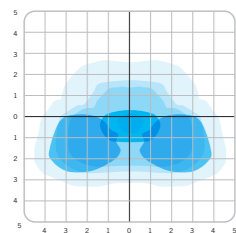
Easy Installation & Maintenance

- 2-part housing aids easy installation and access for maintenance if replacing drivers or emergency batteries.
- Multiple cable entry points including rear, top, bottom and side ensures flexible options depending on project requirements.

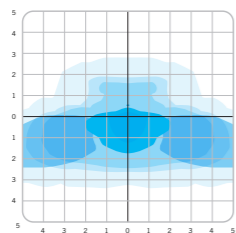
Fully Controllable

- Integrated controls options including, 5/7-pin NEMA sockets and D4i integration via the TZ01/TZ02 option. Compatibility with a range of 3rd party photocells, devices and sensors.
- Integrated 1hr & 3hr emergency options.

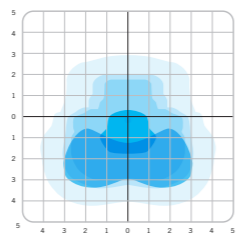
Light Distributions



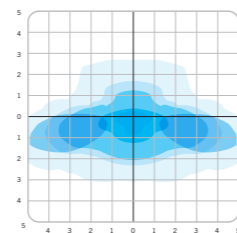
Asymmetric (.AY)



Asymmetric Long (.HA)



Forward Throw (.FW)



Long & Narrow (.NR)

SPECIFICATION

CONTROLS



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-recognised, futureproof drivers and sensors that have the potential to increase energy efficiency and collect different types of data. By having Wallpack D4i ready customers can upgrade/adjust the controllability of their lighting and gather valuable data whenever they are ready.

Customer Benefits

Increased Energy Savings

Sensors and devices can be used to optimise luminaires to give greater energy savings and provide light only when it is required.

Flexibility

The D4i architecture enables the interchanging and upgrading of sensor and device options should and when the end-user pleases.

Future Proof

End-users have access to an ever expanding eco-system or devices and sensors through 3rd-party suppliers. The D4i architecture is an industry recognised platform.

Note: Please ensure that the selected IoT device is compatible and suitable for the respective luminaire. All installation should be completed in compliance with the respective devices installation instructions (and limitations). Holophane cannot be held responsible for the operation of its luminaires with third party devices.



TZ01



TZ02



IoT.TZ.TSZC
For use with TZ01



IoT.TZ.EAS
For use with TZ01



IoT.TZ.PIR
For use with TZ02



IoT.TZ.CA
For use with TZ01

The PrecisionHALO is Lucy Zodion's latest photocell innovation that packs a number of features into its small, compact design. Optimised for the latest generation of LED Streetlights, the PrecisionHALO works alongside Zhaga drivers and connectors.

EasyAir SNO110 is ideally suited for outdoor applications and is intended for individual pole control and configuration. It automatically connects to the Global Navigation Satellite System (GNSS) to obtain date and time information in real time. On/off switching as well as a 5-step DynaDimmer scheduling based on date and time can be configured using Bluetooth communication. Therefore, this device can easily replace a photocell or LineSwitch-based control mechanism.

The FDP-301 Wattstopper is an IP66 sensor, suitable for outdoor applications where presence detection is needed. It features a PIR combined with and integrated photocell and requires a luminaire with an intelligent driver, such as the Philips SR and a Zhaga 4-pin socket. It can be programmed to enable presence detection below a certain lux level eliminating the need for extra photocells or custom solutions, largely simplifying the installation. It is ideal for Parking Areas, Warehouses, Distribution Centres, or even High Bay Indoor Spaces. It is programmable via Bluetooth, with a simple smartphone app available on Google Play store or on App store.

CONTROLUX AIR is a wireless technology that offers intelligent lighting with reductions in energy consumption of up to 80%. It optimises energy savings thanks to the individual control of light sources. It controls, monitors and manages street lighting, reporting consumptions, operating hours or system faults.



THERMAL MANAGEMENT

The reliability and performance of an LED luminaire is dependent on a combination of factors. Keeping the temperature of the control gear, LEDs etc as low as possible is critical to maintaining the luminaire's efficiency.

Wallpack 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.



Conduction

Taking heat away from electronic components, LEDs and drivers.



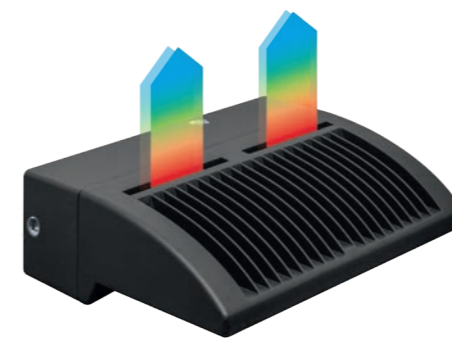
Convection

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



Radiation

Surface finish and form designed to maximise heat radiation.



Wallpack's design incorporates an air channel between the LED module and the gear compartment. This allows for airflow through the luminaire efficiently taking away heat from these critical components.

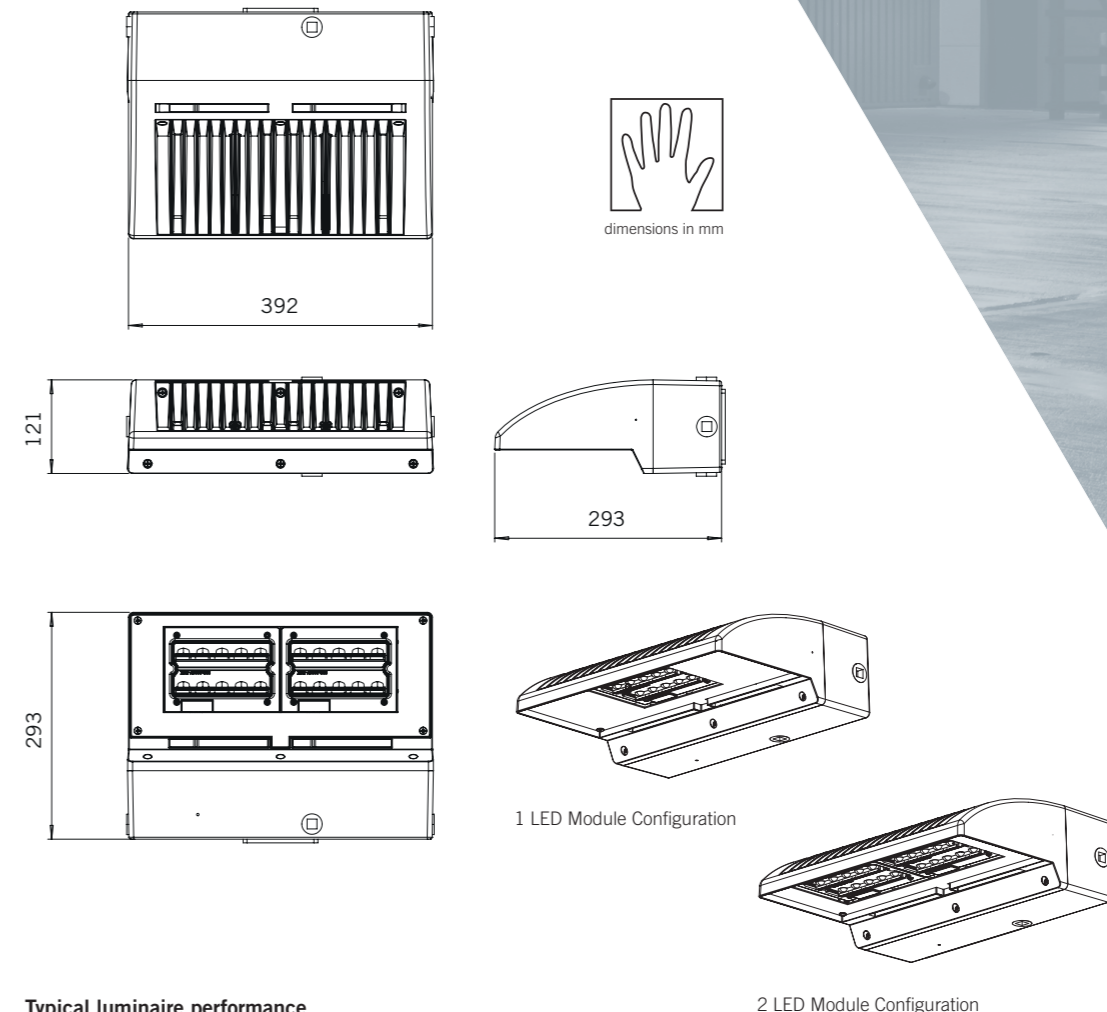
THERMAL MANAGEMENT

ORDERING DETAILS

Code	Luminaire (required)
WAP	Wallpack
Code	Series (required)
.1	Series 1
Code	Lamp Type (required)
.LA034	LED light engine producing c.3,000 lm with a nominal 4000K colour temperature
.LA044	LED light engine producing c.4,000 lm with a nominal 4000K colour temperature
.LA054	LED light engine producing c.5,000 lm with a nominal 4000K colour temperature
.LA064	LED light engine producing c.6,000 lm with a nominal 4000K colour temperature
.LA084	LED light engine producing c.8,000 lm with a nominal 4000K colour temperature
.LA094	LED light engine producing c.9,000 lm with a nominal 4000K colour temperature
.LA033	LED light engine producing c.3,000 lm with a nominal 3000K colour temperature
.LA043	LED light engine producing c.4,000 lm with a nominal 3000K colour temperature
.LA053	LED light engine producing c.5,000 lm with a nominal 3000K colour temperature
.LA063	LED light engine producing c.6,000 lm with a nominal 3000K colour temperature
.LA083	LED light engine producing c.8,000 lm with a nominal 3000K colour temperature
.LA093	LED light engine producing c.9,000 lm with a nominal 3000K colour temperature
Code	Distribution (required)
.AY	Asymmetric
.HA	Asymmetric Long
.FW	Forward Throw
.NR	Long & Narrow
Code	Colour (required)
.C1	Smooth White (RAL9016)
.C4	Graphite (RAL 7011)
.C6	Smooth Grey (RAL7035)
.C7	Black (RAL9005)
.C9	Metallic Silver (RAL9006)
.RAL****	RAL Colour (Customer choice)
Code	Paint Finish (option)
.C	Enhanced paint finish
Code	Photocell (option)
.T5	Complete with 5-pin dimming NEMA ANSI C136.41 socket
.T7	Complete with 7-pin dimming NEMA ANSI C136.41 socket
.T5T	Complete with 5-pin dimming NEMA ANSI C136.41 socket with weather proof locking top
.T7T	Complete with 7-pin dimming NEMA ANSI C136.41 socket with weather proof locking top
.TZ01	Complete with 4-Pin Zhaga Socket - 'Top' (suitable photocell/node supplied by others) with weather proof locking top*†
.TZ02	Complete with 4-Pin Zhaga Socket - 'Bottom' (suitable node/presence detector supplied by others) with weather proof locking top*†
.TZ03	Complete with 4-Pin Zhaga Socket - 'Bottom' (suitable node/presence detector supplied by others) with weather proof locking top.
Code	Emergency (option)
.EM1	Self-contained (self-test) 1hr maintained emergency battery and inverter. Output c.600 lumens
.EM3	Self-contained (self-test) 3hr maintained emergency battery and inverter. Output c.600 lumens
Code	Dimming Outputs (option)
.LRD	DALI
.LRT*****	Dimming as per customer requirements
Code	Control gear (option)
.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
Code	Controls (option)
.PL1	Integrated PIR, suitable up to 4m. Dims to 30% after 10 minutes of inactivity - switches off after further 10 minutes. Remotely re-programmable with accessory HEL.PRG (purchased separately)
.PL2	Groupable Integrated PIR. Dims to 30% after 10 minutes of inactivity - switches off after further 10 minutes. Remotely re-programmable with accessory HEL.PRG.G (purchased separately).
.CA	Wireless lighting node (top socket) for use with Holophane Controlux Air System. (Includes subscription package for two years)
.CAP	Wireless lighting node (top socket) & PIR (bottom socket) for use with Holophane Controlux Air System. (Includes subscription package for two years). Suitable up to 6m.
Code	Voltage (option)
.C-PROTEC	With 10kV / 10kA surge protection**
Code	Cable entry (option)
.CTR	Conduit Thread Reducer Adapter from 3/4 inch NPT to 20mm (2 supplied in box)
WAP .1 .LA034 .AY .C1 .C .T5 .EM1 .LRD .CL7 .PL1 .C-PROTEC .CTR	



DIMENSIONS & PERFORMANCE



Typical luminaire performance

Configuration	Delivered Lumens	LED Modules	Power Usage (W)	Luminaire Efficacy (lpw)	Rated Life of LED Module (L70B50 @tq 25°C)
WAP.LA034	c.3,000	1	23	131	100,000 hrs
WAP.LA044	c.4,000	1	33	125	100,000 hrs
WAP.LA054	c.5,000	1**	42	118	100,000 hrs
WAP.LA064	c.6,000	1**	45	135	100,000 hrs
WAP.LA084	c.8,000	2	63	128	100,000 hrs
WAP.LA094	c.9,000	2	81	121	100,000 hrs

** 2 modules if with TZ01/TZ02 option

Weight kg
WAP 10

* TZ01 & TZ02 option not available with .LA093 or .LA094. † Not available with .LRD. ** Not available in conjunction with EM1 or EM3.

Accessories WAP.CTR Conduit Thread Reducer Adapter from 3/4 inch NPT to 20mm.

Note: The specifications of the Holophane luminaire, 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.

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

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HOLOPHANE®

Holophane Europe Limited
Bond Avenue, Bletchley, Milton Keynes MK1 1JG United Kingdom
Telephone: +44 (0)1908 649292 UK Fax: +44 (0)1908 367618
International Fax: +44 (0)1908 363789
E-mail: info@holophane.co.uk

www.holophane.co.uk

