



COCITY MAX «

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Innovation and efficiency







CityMax Large combines a sleek contemporary design with exceptional technical performance. The CityMax Large luminaire has been engineered as a retrofit solution for existing 250W, 400W & 600W SON & metal halide installations typically seen in retail parks, amenity areas, town squares and car parks. With the latest in high efficiency LED technology and glass optics we have created a highly efficient LED light engine system that delivers energy savings, low glare appearance and exceptional visual acuity.

The specially engineered optical modules come with a full range of distribution options to meet the highest performance standards and deliver outstanding visibility and uniformity. 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. CityMax Large is a continuation of this proud tradition.



 Configuration
 Delivered Lumens

 BCL.1.LC20X
 c.20,000

 BCL.1.LC25X
 c.25,000

 BCL.1.LC30X
 c.30,000

 BCL.1.LC35X
 c.35,000

c.40.000

Note: Data is correct at time of print. * For other life metric data in line wi Representative for details.

BCL.1.LC40X

applications

- > Car parks
- > Retail parks
- > Amenity areas
- > Town squares

optics / light source

- > Available with 6 optical distributions
- > Lumen packages ranging from 20,000 to 40,000 lumens
- > Colour temperature of 3000K or 4000K
- > Smart City ready

TM66 CEAM-Make rating

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

approvals

Complies with EN60598



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



Typical Luminaire Performance

Power Consumption	Driver Current	Projected Life of LED Module (L70B50 @Tq 25°C)*
122W	570mA	100,000 hrs
155W	735mA	100,000 hrs
196W	915mA	100,000 hrs
235W	810mA	100,000 hrs
264W	735mA	100,000 hrs

* For other life metric data in line with IEC PAS62722-2-1 and 62717 contact your Holophane

Technical Specifications

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Thermal Management

Engineered to deliver exceptional thermal management via **conduction** and **convection** which ensures heat is taken away from the light engine to deliver a system life of 100,000 hours L70B50

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Specification

The luminaire shall consist of six, eight or ten prismatic glass refractors manufactured from borosilicate glass to ensure longevity and minimise dirt depreciation. Each glass lens houses an array of LEDs and creates individual optical pods. Each optical pod is housed in a ventilated chamber and finned housing manufactured from aluminium to maximise heat transfer.

The electrical housing consists of an aluminium body containing

the drivers, electrical termination and has been developed to ensure 'smart' control devices can be integrated. The luminaire chassis and electrical housing utilises all three heat transfer mechanisms of conduction. convection and radiation to ensure that the LEDs and electronic drivers are thermally managed.

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



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Prismatic Glass Pods

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Available with either 6, 8 or 10 optical pods to deliver the desired distribution and lumen package. Recessed within the housing to mitigate upward light.

Mounting Options

Direct post top mount (76mm, 101mm* or 127mm*) ensures ease of retrofit to existing columns. Also available as part of a complete column and luminaire solution.

*Accessory required



Control

The inner housing contains the electronic drivers and 'smart' control nodes that deliver the complete controllable lighting solution. Access to the housing is **tool-less** allowing ease of access during installation and for maintenance in the future.





Holophane's Optical Story



In this very competitive environment, it is becoming increasingly important to reduce operating costs and improve efficiency. Holophane is your expert when it comes to delivering the most efficient lighting solutions to help you achieve that goal. Taking advantage of the most advanced technologies available.

Advanced Optical Control

By combining the latest in LED technology with our advanced glass refractor optic we are able to break up the image of the LEDs with a PrismGlow effect. This reduces the glare normally associated with individual LEDs and eliminates hot spots on the working environment thus creating a more uniform vertical and horizontal lighting solution.

Light Distribution



Forward Throw (FW) Asymmetric (AY)



High Beam Symmetric (HS)



The LED module system covers a large contact surface that conducts heat away from the critical electronic components which is then dissipated throughout the housing. The channel between the modules and the gear compartment

Thermal management

CityMax Large utilises all three heat transfer principles of conduction, convection and radiation.

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Thermal Management Excellent heat dissipation, longer complete life

generates a constant flow of air that passes through the luminaire. This process of convection ensures the luminaire is running as cool as possible resulting in a long system life.

Convection

The air channel between the LED module and gear housing.



Radiation

Heat energy from the driver and LED is emitted from the casting in all directions.



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Performance



Design Parameters

- > Designed to EN 12464-2:2014
- > Target of 20 lux, 0.25% Uniformity
- > 8m mounting height
- > Maintenance factor of 0.88
- > Total area of 34,047m²
- > 40m spacing between mounting points.

Product Used

- 26 CityMax Large
- > Luminous flux: c30,000
- > Luminous efficiency: 148 lp/W
- 26 400W SON Luminaire
- > Luminous flux: c32,000
- > Luminous efficiency: 71 lp/W



2 Year

energy consumption

- * Additional saving can be achieved
- > Improved light control

> 43% year 1 energy savings

> Lower ongoing maintenance costs.

Benefits

with CityMax Large and Controlux Air





Controls compatible with Controlux Air

Motion Sensor

Motion sensor and wireless

communication triggering 1

Wireless Controller) upon

to 10 luminaires (with Integral

detection (user configurable).

Detects pedestrians, cyclists and

cars range (range: 2.5 -75 mph)

Range: up to 15m on each side,

9m front and 3m behind at a

mounting height of 5m (max).

Wireless communication with 'Gateway'.

Controlux Air helps users transform their existing infrastructure into a wireless platform. With Controlux Air, you have full remote configuration or your site with an intuitive user interface which is map based and delivers accurate/update reporting.

Wireless Controller

Wireless communication, lighting control and external sensor interface.

External antenna allowing communication with 'Motion Sensor' and 'Wireless Gateway'.

Creates a wireless mesh type network when used with the 'Wireless Gateway'.

Available with option code .T1Z4. Node be to be ordered as separate item (IOT.TZ4.TSK).







Gateway

Wireless network and server communication (via SIM Card).

Suitable for pole, wall or inside cabinet mounting.

One Gateway required for up to 200 devices (Motion Sensors or Integrated Light Controllers)

with a range of up to 1km open field range.

Links all devices to web-based Customer Interface for remote management of luminaires and devices.





Intuitive user interface

Gain in-depth insights into every single aspect of your lighting system. Smart analytics and simple charts will help you make the right decision about your lighting infrastructure.



Lighting-related system faults are identified, and automatic failure reports are sent in real-time. This results in optimized maintenance, better planning, reduced costs and extended luminaire life.

Power metering

Dedicated hardware provides precise energy metering, which is converted into detailed energy usage and savings reports.

Accurate real-time data

Generation of analytics per an individual light point or their groups. Available data includes: notifications about lighting-related faults, number of triggers per light point, generated energy savings, heatmaps, and more.

Map-based visualizations

Outdoor lighting points are represented in a graphic interface on Google Maps, coordinated with GPS technology, which enables you to locate, monitor and control individual light points with ease.

Continuous support

CityManager receives periodic security and feature upgrades. We do this to ensure optimum functionality and system performance.



Financial Benefits

By installing Controlux Air controls systems, you benefit financially, thanks to energy savings and reduced energy costs.

Energy savings of up to 80%

- By using dynamic lighting, it is possible to generate energy savings of 40-80%, depending on the usage environment
- In dense urban environments, the Controlux Air solution has the potential to generate energy savings of 40-50% (in this case, actual savings depend on the traffic intensity)

Maintenance costs savings up to 50%

- Automatic failure reporting
- 20% 50%

40% - 80%

- No need for expensive visual inspections
- Extended luminaire lifetime
- Excellent preventive maintenance

Dimensional Data



Ordering Details

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HEL.127.CP 127mm to 76mm adapter

Complete with NEMA socket. (To accept standard NEMA Photocell, available from Holophane) Complete with 5-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) without

Complete with 7-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) without

Complete with 5-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) with

Complete with 7-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) with weather proof locking top Complete with miniature 55 lux factory fitted photocell. (Zodion Zhaga 4-pin)

Complete with 4-Pin Zhaga Socket - Top (suitable photocell/node supplied by others) with weather proof

Complete with 4-Pin Zhaga Socket - Bottom (suitable node/presence detector supplied by others)

	output (option)
gram gram	ned to deliver 70% of the initial lumens over the life of the luminaire med to deliver 80% of the initial lumens over the life of the luminaire
gram	ned to deliver 90% of the initial lumens over the life of the luminaire
stome	r specified programming
	Control Gear (option)
D	DALI electronic gear
T56	Pre-set to dim to 50% between 12am to 6am
T66	Pre-set to dim to 60% between 12am to 6am
T76	Pre-set to dim to 70% between 12am to 6am
	Code Auxiliary Circuits (option)
	.C-PROTEC 10kv surge protection
T56	C-PROTEC





AcuityBrands.





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