HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS

Industrial Luminaires

Product Portfolio

High Bays

	HOLOBAY™	Phuzion™ PHG	Phuzion™ PHS	Phuzion™ PHZ	Phuzion™ PHZL	Phuzion™ PHV
Applications	Heavy Industrial, Cranes/ Catwalks, Pulp & Paper Mills, Steel Mills, Gymnasium, Natatoriums, Coliseums, Convention Center, Retail, Large Open Spaces	Warehouse, General High Bay, Manufacturing, Gymnasium, Retail	Warehouse, Gymnasium, Retail, Commercial, Convention Center, Large Open Spaces	Heavy Industrial, Steel Mill, Foundry, Manufacturing, Warehouse, Large Open Spaces	Heavy Industrial, Steel Mill, Foundry, Power Generation, Manufacturing, Warehouse, Large Open Spaces	Warehouse, Airplane Hangar, Food Processing, Retail, Powerplant, Transportation, Tunnels, Manufacturing
Lumens	12,000L - 100,000L	9,000L - 36,000L	12,000L - 45,000L	12,000L - 60,000L	50,000L - 100,000L	12,000L - 60,000L
LPW	Up to 198 LPW	Up to 174 LPW	Up to 150 LPW	Up to 160 LPW	Up to 154 LPW	Up to 175 LPW
Temperature Rating	Up to 80C	Up to 55C	Up to 60C	Up to 70C	Up to 65C	Up to 65C
DLC®	Standard, Premium	Premium	Premium	Premium	Premium	Premium
Optics	Prismatic Borosilicate Glass/Silicone	Prismatic Glass/ Acrylic/Aluminum	Prismatic Glass/ Acrylic	Prismatic Glass/ Acrylic/ Focus Smooth	Prismatic Glass/ Acrylic	Glass/Flat Acrylic/Flat Glass-Acrylic Overlay/ Flat Textured Acrylic
Distributions	Narrow, Medium, Wide, Focus, Aisle	Narrow, Medium, Wide	Narrow, Wide, Uplight Modules	Narrow, Medium, Wide, Focus	Narrow, Medium, Wide, Focus	Narrow, Medium, Wide, Uplight Modules
Uplight	Up to 16%	Up to 12%	Up to 14% (Adjustable)	N/A	N/A	Up to 1,838 lumens
Mounting	Pendant, Wall Mount, Aircraft Cable/Chain, Crane, Yoke, Inverted, UPH/PHCB, Hook, Loop QD/NDT, Twin Arm	Pendant, Hook	Pendant, Hook, Remote	Pendant, Hook, Remote, Crane	Pendant, Hook, Remote	Pendant, Surface (Ceiling), Suspended, Quick Disconnect
Surge Protection	10kV / 20kV	6kV (MVOLT) / 10kV (HVOLT)	6kV (MVOLT) / 10kV (HVOLT)	10kV	10kV	10kV
Listing & Rating	Wet Location, IP65 IP66, NEMA 4X, IK	Damp Location, IP65 Optics	Damp Location	Wet Location, IP65 Optics	Wet Location, IP66	Wet Location, IP65, IP66, NSF Splash Zone 2, NEMA 4X
Controls	Bluetooth® Programmable Sensor nLight® AIR	Bluetooth® Programmable Sensor nLight® AIR	nLight® AIR	Bluetooth Programmable Sensor nLight® AIR	Bluetooth Programmable Sensor nLight® AIR	Bluetooth Programmable Sensor nLight® Air
Weight	33.2 - 45 lbs	17 - 29 lbs	46.3 lbs	33 - 38lbs	55 lbs	25.5 - 55.5 lbs

Low Bays and Strips

Applications	Bantam LED	HZL1	HRTC	HVTS
Applications	Low Bay, Commercial, Parking Garages, Manufacturing, Retail, Warehouse	Commercial, Office, Manufacturing, Retail, Warehouse, Display	Manufacturing, Retail, Commercial, Office, Warehouse, Display	Healthcare, Education Commercial, Office, Industrial Settings
Lumens	5,000L - 8,000L	1,500L - 14,000L	5,000L - 16,000L	3,000L - 7,200L
LPW	Up to 143 LPW	Up to 135 LPW	Up to 177 LPW	Up to 125 LPW
Temperature Rating	Up to 25C	Up to 30C	Up to 55C	Up to 25C
DLC*	Premium	Premium	Premium	Premium
Optics	Prismatic Glass	Flat or Round Acrylic	Round Acrylic	Round Acrylic
Distributions	Medium, Wide, Long & Narrow, Symmetric	General	General	General
Uplight	Up to 23%	Up to 11%	Up to 6%	Up to 6%
Mounting	Stanchion, Ceiling, Pendant, Wall	Surface, Suspended, Stem, Pendant	Surface, Suspended	Surface, Suspended
Surge Protection	10kV	2.5kV	2.5kV	2.5kV
Listing & Rating	Wet Locations, IP65	Damp Location	Damp Location	Damp Location
Controls	N/A	LSXR Sensor nLight® AIR	LSXR Sensor nLight® AIR	LSXR Sensor nLight® AIR
Weight	22 - 24 lbs	7 - 26 lbs	8 - 16 lbs	8 - 16 lbs

Demanding Environments

	Petrolux® PXLW /PXLW Adapter Ring	Petrolux® PXHW	Vantage®	EMS	EVT4	EMW	EMX	HIT
Applications	Heavy Industrial, Petroleum Refinery, Chemical Plant, Power Plant, Textile Mills, Waste-Water, Mining	Heavy Industrial, Petroleum Refinery, Chemical Plant, Power Plant, Textile Mills, Waste-Water, Mining	Food Processing, Cold Storage, Wet Locations, High Pressure Hosedown	Wet Locations, Parking Garages, Food Processing, Under Canopy	Wet Locations, Parking Garages, Food Processing, Under Canopy	Wet Locations, Garden Centers, Food Processing, Under Canopy	Heavy Industrial, Chemical Facilities, Diesel Tunnels, Steel Mills, Shipping Ports, Food Processing, Wet Locations	Cleanroom, Healthcare, pharmaceuticals, electronic manufacturing, food processing
Lumens	3,000L - 10,000L	12,000L - 28,000L	12,000L - 32,000L	2,000L - 24,000L	4,000L - 15,000L	9,000L - 40,000L	3,000L - 28,000L	3,000L– 30,000L
LPW	Up To 148 LPW	Up To145 LPW	Up To 147 LPW	Up To 173 LPW	Up To 129 LPW	Up To 177 LPW	Up To 159 LPW	Up To 145 LPW
Temperature Rating	Up To 65C	Up To 65C	Up To 55C	Up To 50C	Up To 40C	Up To 55C	Up To 70C	Up To 40C
DLC®	Premium, Standard	Premium, Standard	Premium, Standard	Premium, Standard	Premium, Standard	Premium, Standard	Premium, Standard, Parking Garage	Premium, Standard
Optics	Prismatic Glass, Ultra Durable Silicone (Non-Glass)	Prismatic Glass, Ultra Durable Silicone (Non-Glass)	Prismatic Acrylic or Polycarbonate	Acrylic or Polycarbonate	Polycarbonate	Acrylic or Polycarbonate	Glass and Polycarbonate, Clear and Frosted	Frosted Acrylic or Polycarbonate
Distributions	Narrow, Medium, Wide, Forward Throw, Long & Narrow	Narrow, Medium, Wide, Forward Throw, Long & Narrow	Medium, Wide	Medium, Wide	Medium	Narrow, Medium	Medium, Wide, Parking Garage	Narrow, Medium
Uplight	Up To 10%	Up To 10%	Up To 7%	Up To 2%	Up To 6%	Up To 3%	N/A	N/A
Mounting	Universal, Pendant, Wall, Ceiling, Hook, Stanchion	Universal, Pendant, Wall, Ceiling, Hook, Stanchion	Pendant, Hook	Surface/Ceiling, Suspended, Wall, Angle, Pendant	Surface/Ceiling, Suspended	Surface/Ceiling, Suspended, Pendant	Pole, Suspended, Surface/Ceiling, Wall, Angle, Pendant	Standard, Grid, Flange
Surge Protection	10kV	10kV	10kV (20kV Optional)	6kV (10kV OptionalL)	6kV (10kV Optional)	6kV (10kV Optional)	10kV (20kV Optional)	10kV
Listings & Ratings	UL1598, NSF2, Marine Outside, NEMA 4X IP65, IP66, IP67	UL1598, NSF2, Marine Outside, NEMA 4X IP65, IP66, IP67	UL1598, NSF2, IP65, IP66, IP67, IP69K Hazardous: C2D2	Wet Location, NSF2 IP65, IP66, IP67	Wet Location, NSF2 IP65	Wet Location, NSF2, NEMA 4X IP65, IP66, IP67, IP69K	Wet Location, Marine, NSF2, NEMA 4X IP65, IP66, IP67, IP69K	USP 797 & USP 800, Biosafety levels 1-4, ISO 3-9, NEMA 4X, NSF 2, NSF P442, IP65, IP66, Wet Location
Controls	Bluetooth® Programmable Sensor nLight® AIR	Bluetooth® Programmable Sensor nLight® AIR	Bluetooth® Programmable Sensor nLight® AIR	Wet Location Sensor nLight® AIR	Wet Location Sensor nLight® AIR	Wet Location Sensor nLight® AIR	Wet Location Sensor nLight® AIR	Bluetooth® Programmable Sensor nLight® AIR
Weight	19 lbs	36 - 39 lbs	36 lbs	8 - 23 lbs	13.5 lbs	18 - 35 lbs	10 - 20 lbs	27 - 50 lbs

Hazardous Locations

Applications	Petrolux® PXLH	Petrolux® PXHH	Petrolux® HPLED	EMXH	HRLL	HXPL	HPFM/HPFL
	Heavy Industrial, Petroleum Refinery, Chemical Plant, Power Plant, Textile Mills, Waste-Water, Mining, Classified Hazardous Locations	Heavy Industrial, Petroleum Refinery, Chemical Plant, Power Plant, Textile Mills, Waste-Water, Mining, Classified Hazardous Locations	Heavy Industrial, Petroleum Refinery, Chemical Plant, Power Plant, Textile Mills, Waste-Water, Mining, Classified Hazardous Locations	Heavy Industrial, Petroleum Refinery, Chemical Plant, Power Plant, Textile Mills, Waste-Water, Mining, Classified Hazardous Locations	Classified Hazardous Locations	Classified Hazardous Locations	Classified Hazardous Locations
Lumens	3,000L - 10,000L	12,000L - 28,000L	5,000L - 19,000L	3,000L - 18,000L	8,000L	3,000L - 10,000L	6,900L - 44,000L
LPW	Up To 148 LPW	Up To 145 LPW	Up To 124 LPW	Up To 159 LPW	Up To 94 LPW	Up To 116 LPW	Up To 147 LPW
Temperature Rating	Up To 65C	Up To 65C	Up To 55C	Up To 70C	Up To 55C	Up To 55C	Up To 40C
DLC®	Premium, Standard	Premium, Standard	N/A	N/A	N/A	N/A	Standard
Optics	Prismatic Glass, Ultra Durable Silicone (Non-Glass)	Prismatic Glass, Ultra Durable Silicone (Non-Glass)	Prismatic Glass, Polycarbonate	Glass and Polycarbonate, Clear and Frosted	Prismatic Glass	Glass	Prismatic Glass
Distributions	Narrow, Medium, Wide, Forward Throw, Long & Narrow	Narrow, Medium, Wide, Forward Throw, Long & Narrow	Type 5 High Angle, Type 5 Low Angle, Long & Narrow, Type 5 with Uplight	Medium, Wide, Parking Garage	Type 5	General	4X4, 4X5, 5X5, 6X5, 6X6 NEMA Optics
Uplight	Up To 10%	Up To 10%	Up To 5%	N/A	N/A	N/A	N/A
Mounting	Universal, Pendant, Wall, Ceiling, Hook, Stanchion	Universal, Pendant, Wall, Ceiling, Hook, Stanchion	Universal, Pendant, Wall, Ceiling, Hook, Stanchion	Pole, Suspended, Surface/Ceiling, Wall, Angle, Pendant	Universal, Pendant, Wall, Ceiling, Hook, Stanchion	Suspended, Ceiling	Bracket
Surge Protection	10kV	10kV	10kV	10kV (20kV OPTIONAL)	10kV	10kV	10kV
Listing & Ratings	UL844, UL1598, NSF2, Marine Outside, NEMA 4X IP65, IP66, IP67 Hazardous: C1D2, C2D1/2, C3	UL844, UL1598, NSF2, Marine Outside, NEMA 4X IP65, IP66, IP67 Hazardous: C1D2	UL844, UL1598, NSF2, NEMA 4X IP66 Hazardous: C1D2, C2D1, C3	Wet Location, IP65, IP66, IP67, IP69K Hazardous: C1D2, C2D2, C3	UL844, NEMA 4X IP66 Hazardous: C1D1, C2D1, C3	UL844, NEMA 4X IP66 Hazardous: C1D1, C2D1, C3	UL844, UL1598 IP66 Hazardous: C1D2
Controls	Bluetooth® Programmable Sensor	Bluetooth® Programmable Sensor	N/A	Programmable Sensor	N/A	N/A	N/A
Weight	19 lbs	36 - 39 lbs	38 - 45 lbs	10 - 20 lbs	41.6 - 45.7 lbs	40 - 138 lbs	47 lbs

Holophane® LED Hazardous C1D1 fixtures

Designed for hazardous environments, the C1D1 portfolio from Holophane is ideal for environments where explosive and flammable gas, liquids, or vapors are present in normal operating conditions. They are also known for their outstanding thermal shock and impact resistant construction.

With an extensive and versatile hazardous portfolio, the C1D1 product portfolio compliments Holophane's expansive product portfolio. The C1D1 portfolio provides a robust offering of lumen packages and distributions. With multiple mounting options per fixture, there is an option to fit every space. Options available for battery backup, visually comfortable frosted optic, and marine listing.

	HEXF	HEXF1	HEXS	HEXSEM	HET
Performance Packages	9000 – 18650 lumens	3000-8000 lumens	3500 – 10000 lumens	7500 – 10260 lumens	2400 – 16000 lumens
LPW	120 – 125	126 – 156	88 – 120	95 – 128	102 – 125
Ambient	-40C to 60C	-40C to 65C	-40C to 60C	-20C to 45C	-20C to 40C
Surge	10kV standard	10kV standard	10kV standard	10kV standard	10kV standard
Voltage	120-277v 347-480v	120-277v 347-480v	120-277v 347-480v	120-277v	120-277v 277-480v
T-Codes (C1D1)	T6	T6	T6	T6	T6
Mountings	5	4	5	5	4
Distributions	3	3	2	3	2
C1D1 Listing	Groups C, D	Groups B, C, D	Groups C, D	Groups C, D	Groups C, D
Weight	~34 lbs.	~12 lbs.	16 – 24 lbs.	~27 lbs.	28 – 80 lbs.

Controls Solutions

nLight® is a sensor-based network digital lighting controls solution that offers wired and wireless lighting controls, easily connecting fixtures, sensors, and other control devices to create a digital network. The nLight platform of products enables ease in specification, installation, and ownership, making it the go-to digital lighting controls platform for specifiers, contractors, and building owners.

nLight® AIR wireless lighting controls are a smart solution for simplifying installation and aiding in energy code compliance.

EMX

Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor

2. Install the wireless battery-powered wall switch or nLight AIR enabled Remote Ceiling mount sensor

3. With our CLAIRITY app, pair the fixtures with the wall switch or remote ceiling mount sensor and if desired, customize the sensor settings for the intended outcome

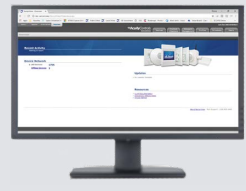rPODBA DX

Mobile Device

CLAIRITY™ Pro

The free CLAIRITY™ Pro mobile app allows validated end users (electrical contractors, controls technicians or facility maintenance professionals) to start up, configure and troubleshoot from a compatible smartphone or tablet. The CLAIRITY Pro mobile app is optimized for efficient onsite startup and maintenance activities. It allows you to easily modify the settings and operation of the fixtures, sensors and wall switches, aiding in meeting energy code requirements.

Available on the App Store

ANDROID APP ON Google play

SensorView
Monitoring and Configuration Software

SensorView is an intuitive and easy-to-use, web-based suite of applications that gives authorized users the ability to remotely configure and monitor nLight® network luminaires and control devices. SensorView also can assist with system commissioning by indicating and reporting on sensor and controller settings in addition to displaying live device status.

How nLight AIR Works

nLight AIR Stand-Alone System

One device in a group will be selected as the Group Monitor (GM) during commissioning. The GM acts as a repeater to communicate with other devices in the group. Messages are sent to the GM, and the GM then sends a message to all devices at the same time. Group 1 and Group 2 operate completely independent of one another.

Benefits
+ No gateway/router device to install
+ Meets all basic control strategies: Switch, occupancy, daylighting/photocell
+ Easy to upgrade: Start simple, scale up when needed

nLight AIR Networked System

Each nLight AIR group is bound to the nLight ECLYPSE™, providing system-wide communication. Messages are sent to and from the ECLYPSE with all devices in range. For devices not in direct range, Autonomous Bridging Technology creates repeaters to carry messages to those devices out of range. Standalone communication with a group monitor still happens independent of system-wide communication.

Benefits
+ System-wide configuration and control, including advanced scheduling and remote programming
+ Building Management System (BMS) integration through common protocols (eg. BACnet)
+ Wired or wireless integration, over-the-air firmware updates, energy monitoring and much more!

Ratings Explained

IEC - IP Rating System

First Digit - Degree of Protection Against Solid Objects		Second Digit - Degree of Protection Against Water	
0	Non-protected	0	Non-protected
1	Protected against a solid object greater than 50mm such as a hand	1	Protected against water dripping vertically
2	Protected against a solid object greater than 12mm such as a finger	2	Protected against dripping water when incident up to 150 from vertical
3	Protected against a solid object greater than 2.5mm such as a wire or a tool	3	Protected against water spraying at an angle of up to 60°
4	Protected against a solid object greater than 1.00mm such as a wire or thin strip	4	Protected against water splashing from any direction
5	Dust-protected, prevents ingree of dust sufficient to cause harm	5	Protected against jets of water from any direction *(i.e. sink faucet with 0.25-inch nozzle; 4 psi and 3.3 gal/min at 3-yards distance)*
6	Dust-tight, no dust ingress	6	Protected against heavy seas or powerful jets in harmful quantities *(i.e. 2.5-inch hose flow with 0.5-inch nozzle; 14.5 psi, 26 gal/min at 3-yards distance)*
		7	Protected against harmful ingress of water when immersed between a depth of 150mm and 1 meter for 30 minutes maximum
		8	Protected against submersion, suitable for continuous immersion in water
		9K	Protected against close-range high pressure, high temperature spray downs *(i.e. high temp pressure water & low flow; 80ºC at 1450 psi and 3.5 gal/min at 0.5-foot distance) *IEC 60529 and ISO 20653*

Hazardous Ratings Overview - UL844

Class - Defines nature of hazardous material in the environment
Class I - Gas
Presence of flammable gases or vapors may be present in sufficient quantities to product explosive/ignitable mixtures
Typical Class I Locations Petroleum refineries, dispensing areas, petrochemical companies, aircraft hangers/fuel serving areas, industrial firms with dip tanks, utility gas plants, waste water treatment
Class II - Dust
Presence of combustible dust
Typical Class II Locations Grain elevators, flour, feed mills, producers of plastics, medicines, fireworks, etc., coal preparation plants, food processing facilities
Class III - Fibers
Presence of ignitable fibers - materials produced contain combustible flyings
Typical Class III Locations Textile mills, cotton gins, seed mills, wood processing

Division - Defines probability of hazardous material being able to produce explosive or ignitable mixture based upon its presence
Division 1 - Normally Hazardous
High probability of producing an explosive or ignitable mixture due to hazardous material being present continuously or periodically under normal operating conditions
Division 2 - Not Normally Hazardous
Low probability of producing an explosive or ignitable mixture and is present only during abnormal conditions for a short period of time

Group - Defines type of hazardous material
Groups A, B, C, D
Ignition temperature and explosion pressure
Groups E, F, G
Dust grouped according to ignition temperature and conductivity of the hazardous surface