

LZ-Series

Integrated Control LED High Bay



Project:	
Type:	
Catalog #:	

STANDARD



The LZ is a premium round LED high bay luminaire. It is designed to illuminate a wide variety of settings including commercial, industrial & retail settings such as warehouses, manufacturing plants, sporting venues and big-box retailers. With a die cast aluminum housing and clear glass lens, the LZ provides durability and high performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, HID high bays.

FEATURES

- Plug and play design, upgrade to smart control in seconds.
- Field installable uplight kit to eliminate dark ceilings and corners
- Field changeable optics: 60°, 90°, 120°, 50° * 100°
- All-In-One IoT lighting solution featuring network control, wireless touch switch control, auto scheduling, area control, daylight harvesting, occupancy sensing, and cluster control
- Premium 10 year warranty including labor cost.
- California Title 24 compliant
- IP 65 water and dusk proof housing
- Mounting options include: hook mount, 3/4" NPT adapter, yoke bracket, aircraft cable, indirect mount, and post top mounting. Available in 3000K (warm white) 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 143,000 hours of operation with at least 70% of initial lumen output (L₇₀).**
- LZ Series is available in 145lm/W and 170lm/W, providing lumen output ranging from 10,800 to 32,000 lumens
- Available in 120-277 AC voltage & 347 - 480 AC .
- 0-10vdc dimming drivers are standard.
- Watertight, compression-type electrical connectors.
- Mounting options include suspension from pre-installed mounting hook, yoke mounting, pendant, indirect uplight, and post top
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 70 (>80 & >90 available)
- Heavy-Duty aluminum construction
- Easy installation in new construction or retrofit.

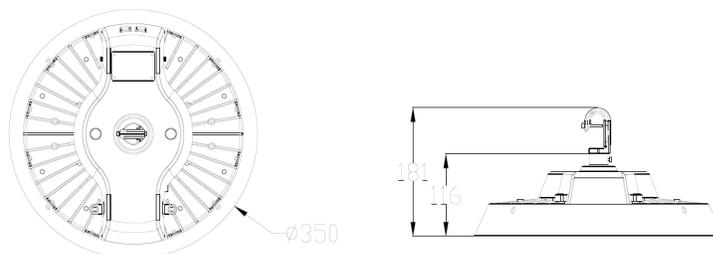
* Contact factory for other color temperatures and lumen packages.
 ** L₇₀ hours are IES TM-21-11 calculated hours.



WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from:
 - -40°C to 50°C (-40°F to 122°F).
 - -40°C to 65°C (-40°F to 149°F) (CONTACT FACTORY)
- IP65 dusk & water.
- DLC premium approved.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (4kV).
- 5-year warranty of all electronics and housing. (7 & 10 year warranty available upon request)

DIMENSIONS



Weight: 12.3 – 13.5 lbs.

ORDERING INFORMATION

Model	Luminaire Watts	Lumens Per Watt	Color Temperature	CRI	Voltage	Fixture Color	Beam Angle	Control Options	Mounting and Accessories	Warranty
LZ -	75 = 75W 10 = 100W 15 = 150W 19 = 190W 24 = 240W 30 = 300W (240W & 300W Pending)	A = 145lm/W B = 170lm/W	S = 3000K I = 4000K C = 5000K	7C = 70 CRI 8C = 80 CRI 9C = 90 CRI	LV = 120-277V HV = 249-528V	BLK = Black (STD) SIL = Silver WHT = White	6D = 60° 9D = 90° 12D = 120° (STD) AO = 50° x 100° DO = Dome	DB = 1-10v Dimming (STD) DA = Dali Control DS = Daylight Sensor MS = Motion Sensor ZG = Zigbee Control UP = Uplight Kit	H = Hook 1/2" NPT (STD) 3PN = NPT Converter 1/2" to 3/4" AB = Adjustable Yoke AW = Steel Rope VLM = Indirect Uplight PT = Post Top Mount (75W only) EM = Battery Backup	5Y = 5 Year 7Y = 7 Year 10Y = 10 Year

MOUNTING OPTIONS



Hook 1/2" NPT



Adjustable Yoke Mount



NPT 1/2" to 3/4" Converter



Post Top Mount

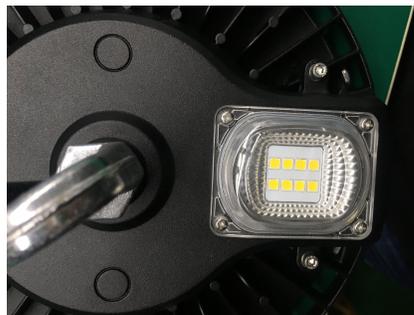


Indirect - Up-light



Steel Rope

Uplight Kit



Wattage	75W	100W	120W	145W	180W
Uplight Rate	10.0%	9.5%	8.0%	6.5%	6.5%

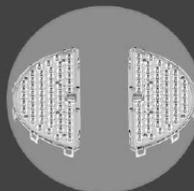
Field Changeable Optics



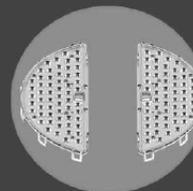
120D Clear



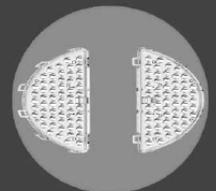
120D Milky



60D

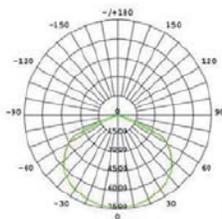


90D

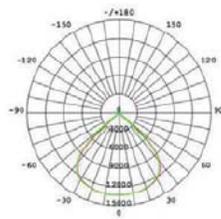


50*100D
Aisle Distribution

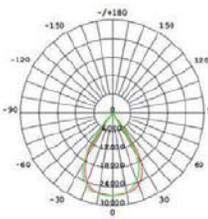
Photometric Data



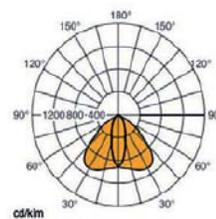
120° (120D)
Wide Angle



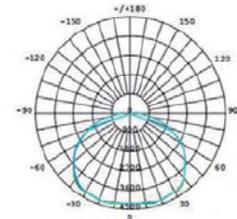
90° (90D)
Medium Angle



60° (90D)
Narrow Angle



50*100° (5010D)
Aisle Optic



Dome Lens (DM)

Electrical Data

Input Wattage		75W	100W	120W	145W	190W	240W	300W	
Standard	Efficiency(+/-5%)	Up to 170lm/W							
	Delivered Lumens (+/-5%)	12750lm	17000lm	20400lm	24650lm	32000lm	40800lm	50000lm	
Economic	Efficiency(+/-5%)	Up to 145lm/W							
	Delivered Lumens (+/-5%)	10800lm	14500lm	17000lm	21000lm	27500lm	34500lm	43500lm	
Input Voltage		100-240VAC/120-277VAC/249-528VAC , 50/60Hz							
CRI		73+(80+ optional)							
CCT		5000K(3000K, 4000K available)							
Beam Angle		60°,90°,120°, Aisle optic 50*100°, Dome Lens					60°,90°,120°Custom optical		
Power Factor		≥0.95							
IP Rating		Ip65							
Working Temp		-40-122°F (-40-50°C)							
Warranty		5 Years standard (can be extended to 10 Years)							
Certifications		ETL, cETL,DLC Premium, FCC, SAA, CE, RoHS, NSF							
Control Options		DALI, ZigBee, Bluetooth, Daylight Sensor, Motion Sensor, 1-10V Dimming							

First **Plug&Play** Smart Design

World's first patented designed module type plug & play Zigbee add-on sensor and sensor embedded luminaire. User can easily scale from a standard fixture to a smart light fixture in 3 seconds.



3 Seconds Easily Plug-in



Wireless Mesh Network Control Smart LED High Bay Light

Compared with the traditional high bay



Item	traditional high bay	module type plug& play design
Labor cost	Many require re-circuiting or new control wiring Need professional operation, wasting lots of labor costs	Easy plug-in installation, Anyone can complete the smart upgrade of the luminaire in 3 seconds
Upgrade cost	Even if smart lighting is not needed now, upgrades and replacements are very expensive when needed later	Plug and play design, upgrade to smart control, only 3 seconds
Inventory cost	Need to store intelligent control products specifically, increasing inventory costs	Easy plug-in Upgrade, only need to stock standard products
Shipping cost	Intelligent control is customized, purchased according to project requirements, and has high Shipping costs	Module type plug&play sensor and sensor embedded Luminaire, Can be stocked up in advance and reduce shipping costs by sea
Time costs	Re-circuiting or new control wiring wasting time; Can't be stocked up in advance purchased on demand, wasting time	Pre-stocking Meet fast demand; Easy plug-in installation, save installation time
Safety	Wiring messy and exposed, hidden security risks	Luminaire-integrated design reduces complexity. 12V DC safe power supply

On-demand lighting

- If a space is unoccupied, **why** light it?
- If daylight is available, **why** use artificial light?
- If task vary throughout your space, **why** pay for uniform lighting?

Yes-We need to pay for light

BUT-We do not need to pay for the brightest light, everywhere, all day, every day.

CAN BE USED TO COMPLY WITH



**MANDATORY INDOOR LIGHTING CONTROLS
OUTDOOR LIGHTING CONTROLS AND EQUIPMENT**
California Title 24 Part 6 — 2016 is the state energy code for all buildings. New buildings as well as renovations/alterations must adhere to the requirements in Title 24 — 2016.

APP, Network control

Lights in multiple locations can be controlled from wireless devices such as mobile phones (IOS/Android system).



Occupancy Sensing

Typically Saves: 15–55%

No one needs light in empty spaces. Turning lights off or dimming when no one is there to use them is an obvious and easy way to save energy



Daylight Harvesting

Typically Saves: 15–45%

Get More from Your Daylighting. Daylight harvesting automatically regulates the use of electric lighting in response to the amount of daylight available. make sure you use only what you need.



Auto Scheduling

Typically Saves: 10–40%

Tell the Smart HighBay when to illuminate a zone and it will take care of the rest with auto-adjustments based on your time zone. Update schedules right from your smartphone



Load Shedding

Typically Saves: 15–45%

Load-shedding, or temporarily reducing the load of a system to avoid energy costs when they're at their highest



Task Tuning

Typically Saves: 5–15%

Programming the output of an individual or group of luminaires to the level that provides just the right amount of light for the space, task or area.



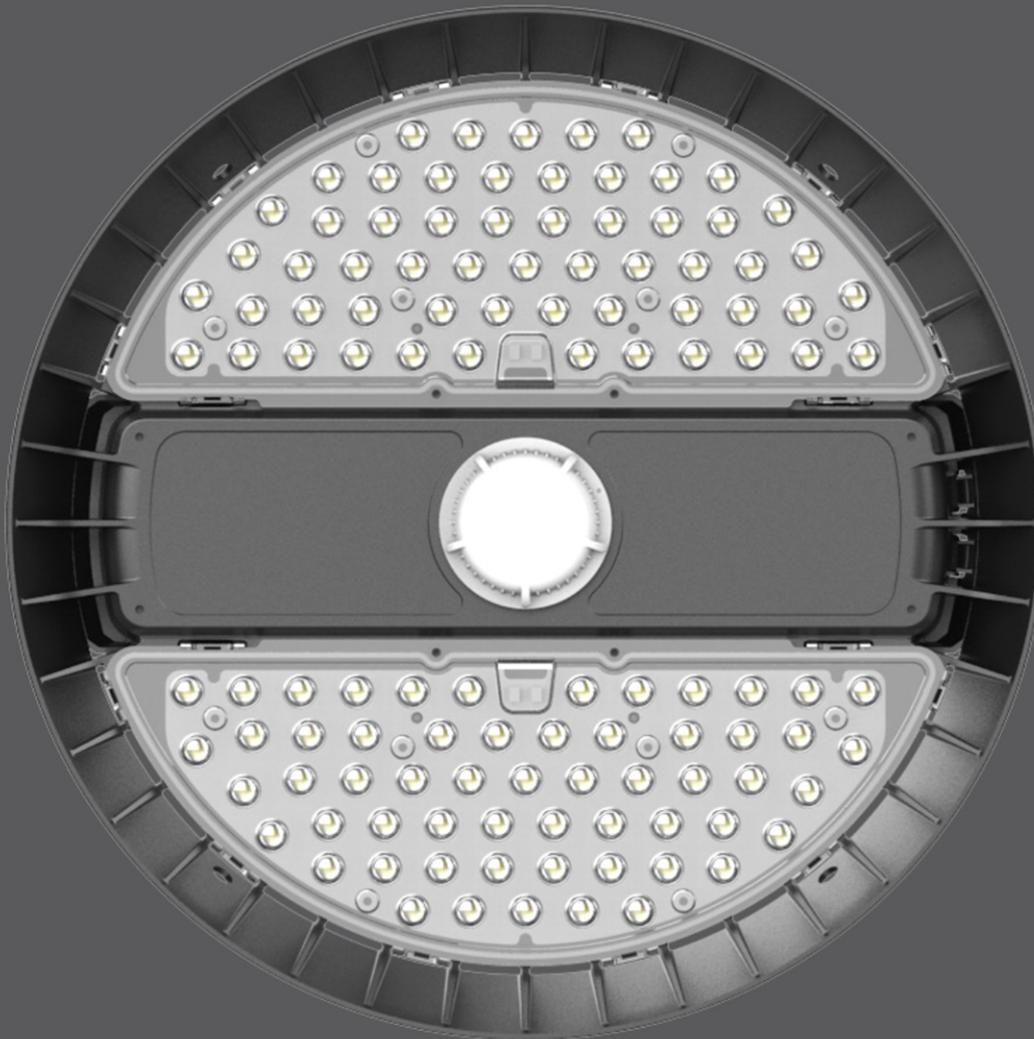
Zoning & Group control

Typically Saves: 5–20%

Group luminaires and form unique lighting control zones for a control strategy via software-defined means not via electrical installation details (e.g. wiring).

Plug & Play Motion Sensor

Automatic Dimming---On-demand lighting



Plug and play



Zigbee mesh network control



App control



On/off control



Daylight sensor



Remote control setting



10-15M High altitude

Wireless Daylight Sensor

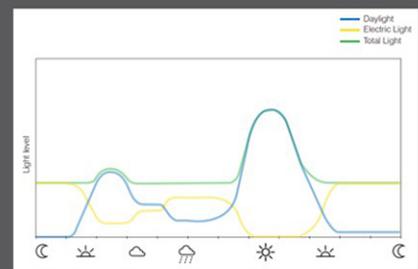
Daylight harvesting automatically regulates the use of electric lighting in response to the amount of daylight available. make sure you use only what you need.



Night: Same brightness for all area



Day : Lower brightness on the windows side



Automatic dimming -- On-demand lighting

Occupancy Sensors & Code Compliance---According to IECC 2015 Code Provision C405.2.1.1.1, office and warehouse fixtures must automatically turn off within 30 minutes of all occupants leaving the space

Daylight Harvesting & Code Compliance According to IECC 2015 Code Provision C405.2.3.12,

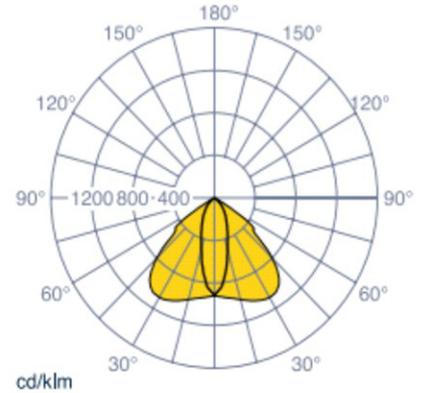
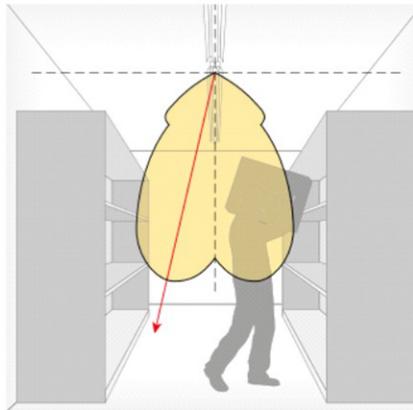
daylight-responsive controls should be installed within each space with sidelight and toplight daylight zones totaling more than 150W.

Various Optics

Placing light where needed

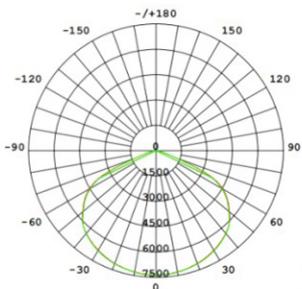
Aisle optic

Suitable for storage spaces, warehouses or retail with narrow spaces between the racks.

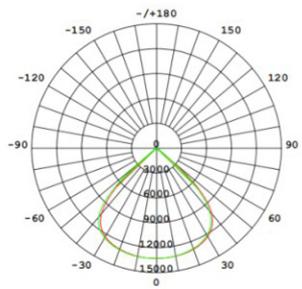


Wide, Medium, Narrow Optics and Dome Lens options offer versatility

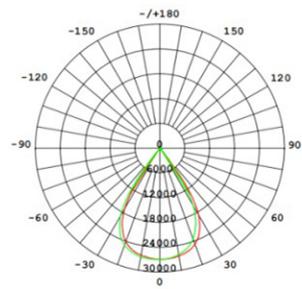
Snap-on design, lens can be replaced quickly and easily



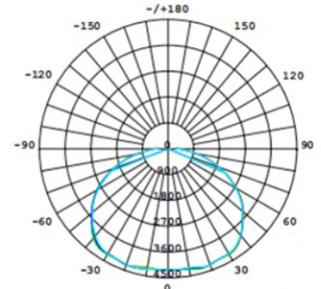
120° Wide Angle for
Factory /Gymnasiums
/Athletic Center



90° Medium Angle for
Large Open Areas



60° Narrow Angle for
Highly installed areas
or Narrow Areas



Dome lens

Different applications, different choices



High Bay with PC lens



High Bay with
aluminum reflector



High Bay with prismatic
reflector and drop lens

Field installable

Uplight Kit

Elimates dark ceilings and corners



Less screws,
Easy to exchange and assemble

SKD,CKD Available

Snap-on design,
Quick changeable lens



Various Mounting Options for easy installation



Hook Mount



Adjustable
Bracket



Steel Rope
Pendant mount



Indirect Mount



NPT Pipe
Mount



Pole Mount as
Post Top Light