

LTZ-Series

Integrated Control LED High Bay



Project:	
Type:	
Catalog #:	

STANDARD



The LTZ 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 LTZ provides durability and high performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, HID high bays.

FEATURES

- IP67 waterproof and IK10 corrosion-resistant design.
- Screwless sealed body preventing accumulation of dust and other bacteria
- All-In-One IoT lighting solution featuring network control, wireless touch switch control, auto scheduling, area control, daylight harvesting, occupancy sensing, and cluster control.
- California Title 24 compliant
- 120° standard optic
- 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).**
- LTZ10 provides 14,000 lumens (140 lumens per watt, LPW) and 17,000 lumens (170 LPW).
- LTZ15 provides 21,000 lumens (140 LPW) and 25,000 lumens (170 LPW)
- LTZ19 provides 25,200 lumens (140 LPW) and 32,000 lumens (170 LPW)
- 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 > 80 (>70 & >90 available)
- Painted die cast aluminum housing.
- Easy installation in new construction or retrofit.

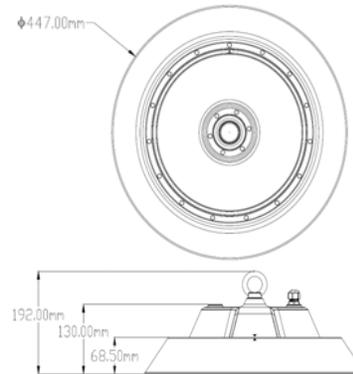
* Contact factory for other color temperatures and lumen packages.
 ** L70 hours are IES TM-21-11 calculated hours.



WARRANTY & LISTINGS

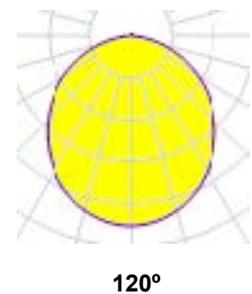
- cULus listed for wet locations in ambient temperatures from:
 - -40°C to 50°C (-40°F to 122°F).
 - -40°C to 65°C (-40°F to 149°F) (CONTACT FACTORY)
- IP67 dusk & water.
- IK10 Corrosion-Resistant
- DLC premium approved.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% 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. (10 year warranty available upon request)

DIMENSIONS



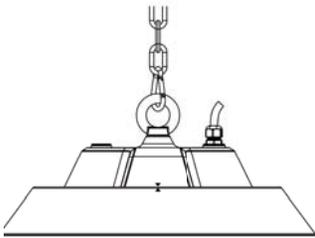
Weight: 11.9 – 14.5 lbs.

Photometric Data

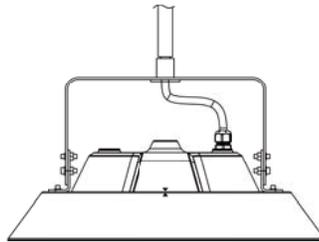


LTZ	10	A	S	7C	LV	BLK	DB-MS-ZG	HM	5Y
Model	Luminaire Watts	Lumens Per Watt	Color Temperature	CRI	Voltage	Fixture Color	Control Options	Mounting Options	Warranty
LTZ -	10 = 100W 15 = 150W 19 = 190W	A = 140lm/W B = 170lm/W	S = 3000K I = 4000K C = 5000K	7C = 70 CRI 8C = 80 CRI	LV = 120-277V HV = 347-480V	SIL = Silver BLK = Black WHT = White	DA = Dali Control DS = Daylight Sensor MS = Motion Sensor PL = PLC Control BL = Bluetooth Control DB = 1-10v Dimming WF =Wifi Control ZG = Zigbee Control	HM = Chain & Hook UB = U-Bracket	5Y = 5 Year 10Y = 10 Year

MOUNTING OPTIONS



Chain & Hook Mount



Yoke Mount

Accessories



Microwave Sensor



External Daylight Sensor



Zigbee Controller + Gateway + Smart Control Software



PIR Sensor



Internal Daylight Sensor



Touch Dimmer + Zigbee Remote Controller

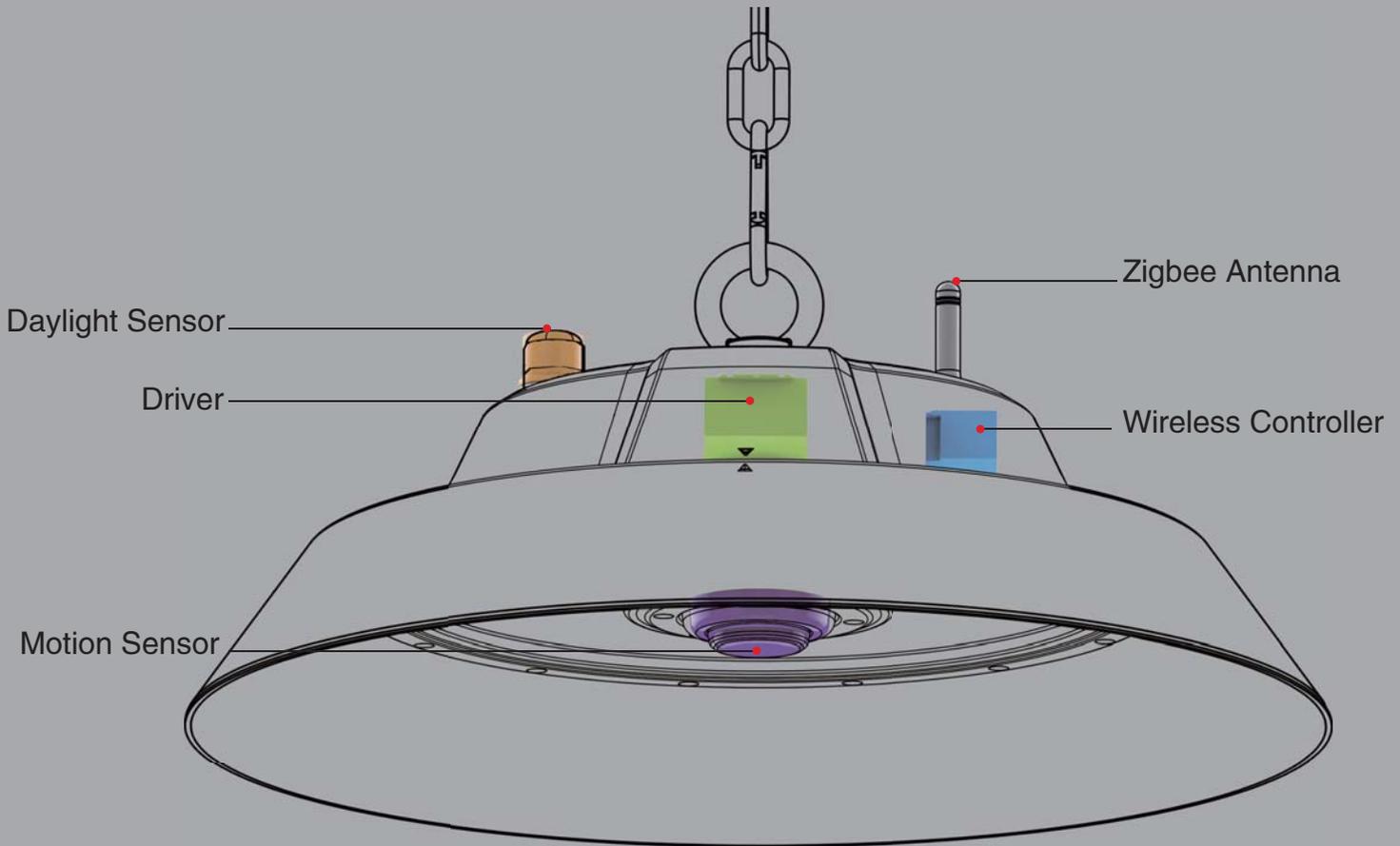


Electrical Data

Input Wattage		100W	150W	190W
Standard	Delivered Lumens (+/- 5%)	14000lm	21000lm	252000lm
	Efficiency (+/- 5%)	Up to 140lm/W		
	MH Equivalent Wattage	250W-400W	500W-600W	700W-800W
Smart+	Delivered Lumens (+/- 5%)	17000lm	25000lm	32000lm
	Efficiency (+/- 5%)	Up to 170lm/W		
	MH Equivalent Wattage	400W-500W	700W-800W	1000W-1200W
Input Voltage		100-240VAC / 100-277AC / 200-480VAC 50-60Hz		
CRI		70+ (80+, 90+ optional)		
CCT		5000K (3000K, 4000K available)		
Beam Angle		120 °		
IP Rating		IP67		
Warranty		5 Years (7 Years optional)		
Certifications		UL, cUL, DLC Premium, SAA, CE, RoHS		
Light body color		Black, standard(silver, white available)		
Control Options	ZG= Zigbee Control	DA=DALI Control	DS=Daylight Sensor	MS=Motion Sensor
	WF=WiFi Control	PL=PLC Control	BL=Bluetooth Control	DB=1-10V Dimming

All-In-One Intelligent Design

Built-in Zigbee Controller, DALI Driver, Daylight Sensor, Motion Sensor, **Plug and Play**



Compared with the traditional UFO high bay



Item	Traditional UFO + External Controller	All-In-One Design
Installation	Many require re-assemble and re-wiring.	Plug and play just as normal lights.
Reliability	Uncontrollable	Passed QC as a whole system. Built-in Controllers and sensors are all protected.
Safety	Wiring messy and exposed, hidden security risks	
Horizontal Adjustment	Usually hanging askew	Easily balanced
Ingress and Impact Protection	The external accessories are not guaranteed	IP67+IK10, Sleek construction prevents the accumulation of dust and water.

On-demand lighting

Don't pay for the brightest light, everywhere, all day, every day.

- 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?

APP, Network control

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



Wireless Touch Switch control



Remote control



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).

HD03R

Standard remote control

ON/OFF

Press the "ON/OFF" button, the light keeps permanently on or off.* Press "Auto Mode", "RESET" or "Apply" buttons to quit from this mode.

Auto Mode

Press "Auto Mode" button, the sensor starts to work and all settings remain the same before the light gets switched on/off.

Detection area

Press the button "detection range" to set detection range as 100% / 75% / 50% / 10%.

Hold-time

Press the button "hold-time" to set hold-time as 5s / 30s / 1min / 3min / 5min / 10min / 15min / 30min .

Stand-by dimming level

Press the button "stand-by dimming level" to set the stand-by dimming level as 10% / 20% / 30% / 50%.

Stand-by period

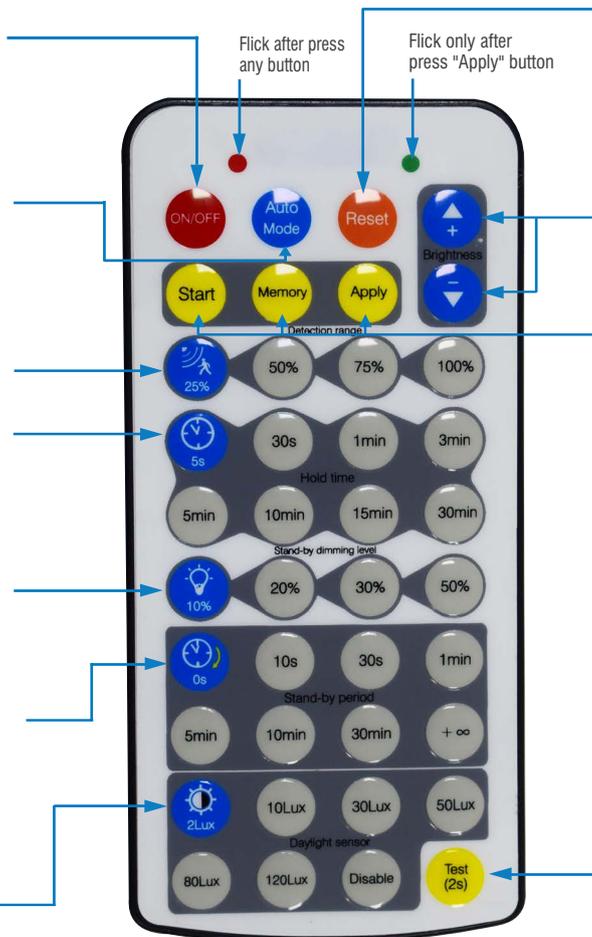
Press the button "stand-by period" to set stand-by period as 0s / 10s / 30s / 1min / 5min / 10min / 30min / +∞.

Note: "0s" means no standby period; "+∞" means unlimited standby period.

Daylight threshold

Press the button "daylight sensor" to set daylight threshold as 2Lux / 10Lux / 30Lux / 50Lux / 80Lux / 120Lux / disable.

Note: Disable means light will be turned on once sensor detects movement, regardless of the ambient lux.



Reset

1. Press "Reset" button, change brightness to max level.
2. Press "RESET" button, products with DIP switch will be controlled by DIP switches; otherwise all the setting will be just initial, that is 100% detection range, hold time 5S, no stand-by time and daylight threshold disabled.

" +/- "

1. To adjust brightness 10-100% in ON/OFF mode.
2. To adjust highest brightness 60-100% in sensor mod.

"Start"

Press "Start" to customize scene, users can change detection range, daylight threshold, holdtime, standby dimming level and standby period.

"Memory"

1. Press "Memory" to save all the settings.
2. No change settings are kept as before save.

"Apply"

1. Press "Apply" to deliver the saved values.
2. Press "Apply" without memorizing all the settings will deliver only one-time operation; Settings should be done within 30S, otherwise it exists memory mode.

"Test (2s)"

The button "Test (2s)" is for testing purpose after commissioning. Pressing this button, the sensor goes to test mode (hold time is only 2s) automatically, stand-by period and daylight sensor are disabled.

Attention

1. When using ON/OFF button, the rest setting buttons don't work.
2. Press "Auto Mode" or "Reset" buttons before setting functions Detection Range, Hold time, Daylight sensor, Standby period and Standby dimming level.
3. Press Start and Memory button to change and save settings in any mode.
4. When using the remote control, light flickers to show instruction received.
5. Every change will be automatically saved.

Integrated Daylight Sensor



The lamp lights on 100% illumination or dims to maintain the preset illumination level against ambient light.

The lamp dims to minimum light level but never turn off even if with sufficient ambient light.

Users can switch off the light manually.

Integrated Motion Sensor



On/off control



Daylight sensor



Remote control setting

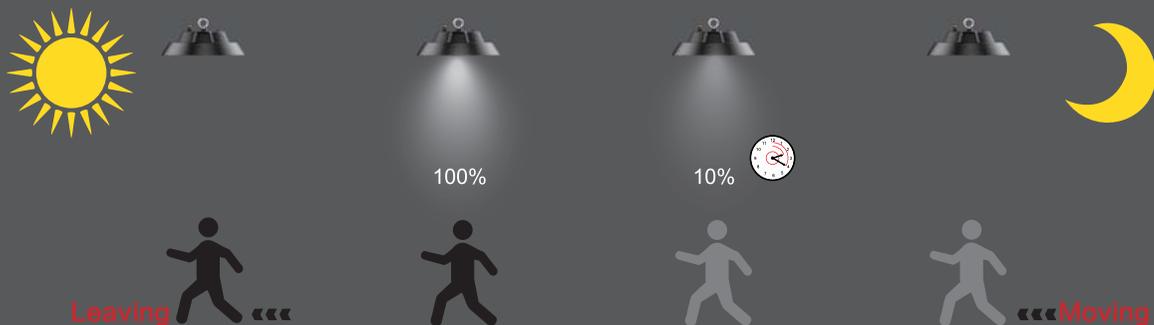


10-15M High altitude



Automatic Dimming---On-demand lighting

Don't pay for the brightest light, everywhere, all day



With sufficient ambient light, the sensor does not dim the lamps

With insufficient ambient light, lamps dim to a high light level when motion is detected

After hold time, lamps dim to a low light level if no new motion trigger

After stand-by period, lamps dim to minimum light level or turn off if no motion is detected

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

Built-in 347V/480V driver

UL cUL DLC Premium certificate,
Compatible Sensors



UL NO.E487257

IP67 Waterproof and Corrosion-Resistant

Ideal lighting for food-processing or any applications that require frequent cleaning with high-pressure hot water and/or sanitation chemicals



Smooth Body
without screws exposed

Sleek construction allows for easy clean-up and prevents the accumulation of dust, all openings are sealed. Bacteria and molds have no crevices or recesses in which to thrive