Halco LIGHTING TECHNOLOGIES

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

LED Luminaires

Essential Round Highbay

- Lumen Packages Covering 9,900 to 34,200 Lumens
- Field Selectable Lumen and CCT
- Multiple Mounting Options
- Easy Plug and Play PIR and Microwave Motion Sensors
- DLC 5.1 Premium

Specifications

Description

The Essential Round High Bay delivers an ideal balance of performance and value for applications such as warehouses, gymnasiums, big box retail, and showrooms. Engineered with high lumen efficacy, field-selectable lumen output and CCT, it adapts easily to diverse project needs while ensuring long service life. Its powder-coated die-cast aluminum housing and durable polycarbonate lens, combined with an IP65 wet location rating, provide reliable operation in demanding environments. Installation is simplified with a 6' cord, ½" NPT steel hook, and surface-mount U-bracket, offering maximum versatility and ease of use.

Performance

- Selectable Color Temperatures 4000K, 5000K
- Up to 161 Lumens per watt
- 80+ CRI
- L70 Lumen Maintenance > 100,000 Hours
- 0-10V Dimming
- Built in 6kv surge protection
- 120-277VAC Input, Step-down transformer available
- 5 Year Limited Warranty

Certifications

- DLC 5.1 Premium
- cULus, Wet location rated
- RoHS compliant
- IP65
- FCC

Applications

- Warehouses
- Gymnasiums
- Big box and retail stores
- Manufacturing
- Showrooms

Construction

- Die-cast Aluminum Housing With Powder Coated Black Finish and Captive Screws
- Polycarbonate lens
- Standard 6' - 18/3 shielded power cord
- 1/2" NPT steel hook (standard)
- Yoke mount bracket (accessory)
- Wire Guard, PC and AL Refactor, Pendant mount Step-down Transformer (Accessories)
- Optional battery backup
- Safety cable

Controls

- 0-10 V dimming standard
- Built in 3.5 mm Audio Jack receptacle
- Plug and Play PIR and Microwave motion sensor (accessory)

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Product Description

Ordering Logic: Ex: ERHB-2-LS-CS-U

Series	–	Size	–	Lumen Selectable	–	CCT	–	Voltage
ERHB = Essential Round Highbay		**1 =** 60W-80W-100W **2 =**90W-120W-150W **3 =** 120W-150W-200W **4 =** 180W-210W-240W		**LS =** Lumen Selectable 1-LS = 9,900-12,500-15,000 2-LS = 13,800-18,000-21,600 3-LS = 19,600-23,100-29,500 4-LS = 26,700-30,600-34,200		**CS =** Color Selectable 4000K/5000K		**U =** 120-277V*

*For 347V or 480V input, use an external step-down transformer and ERHB-HV-KIT accessories (ordered separately).

Ordering Information

Stock SKU's		
Product SKU	**Product Code**	**Product Description**
37310	ERHB-1-LS-CS-U	Essential Round High Bay Lumen Selectable 9,900-12,500-15,000(60W-80W-100W), Color Select 4000K or 5000K, Universal Voltage 120-277VAC, 0-10V Dimming, Black
37311	ERHB-2-LS-CS-U	Essential Round High Bay Lumen Selectable 13,800-18,000-21,600(90W-120W-150W), Color Select 4000K or 5000K, Universal Voltage 120-277VAC, 0-10V Dimming, Black
37312	ERHB-3-LS-CS-U	Essential Round High Bay Lumen Selectable 19,600-23,100-29,500(120W-150W-200W), Color Select 4000K or 5000K, Universal Voltage 120-277VAC, 0-10V Dimming, Black
37313	ERHB-4-LS-CS-U	Essential Round High Bay Lumen Selectable 26,700-30,600-34,200(180W-210W-240W), Color Select 4000K or 5000K, Universal Voltage 120-277VAC, 0-10V Dimming, Black

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Essential Round Highbay

Accessories

Mounting		
Product SKU	**Product Code**	**Product Description**
37308	ERHB-PA	Pendant Mount Adapter Essential Round Highbay (G1 & G2)
30260	HRHB-JBOX	Hoverbay & Essential Round Highbay Junction Box Mount (Top Thread NPS 3/4in Female, Bottom Thread NPS 1/2in Male)
30432	HRHB-34-HOOK	NPS 3/4" Male Steel Hook for use with Junction Box 30260 (for Essential and Hoverbay Round Highbays)
30416	ERHB-HV-KIT	High Voltage Conversion Kit for Essential Round Highbays (Gen 1 and 2) Contains HV Driver 74120, J-Box 30260 and NPS 3/4" Cast Aluminum Hook 30432
74120	ES-TB325-01	Haisen Stepdown, Autotransformer 480 to 208V, 347V to 150V or 277V to 120V (Round High Bay)
37316	ERHB-YB-G2	Yoke Mount Bracket
37317	ERHB-12-WG	Wire Guard for 100W and 150W
37318	ERHB-34-WG	Wire Guard for 200W and 240W
37319	ERHB-12-PC	Polycarbonate Reflector for 100W and 150W
37320	ERHB-34-PC	Polycarbonate Reflector for 200W and 240W
37321	ERHB-12-AL	Aluminum Reflector for 100W and 150W
37322	ERHB-34-AL	Aluminum Reflector for 200W and 240W
Battery Backup		
96104	BBU-30W	Emergency Battery Pack 30 Watt for 60W-240W Round High Bays (Hoverbay & Essential) 100-347V, 90-min Runtime, 0-10V Dimming
Sensors		
37314	HSN-SEN-PIR-DAY-010-3.5-BK	Haisen PIR Sensor 12VDC Input, 0-10V Dimming, with Daylight Harvesting and Photocell Function, 3.5mm Audio Pin Black for Highbays (up to 39FT Ceiling)
37315	HSN-SEN-MS-DAY-010-3.5-BK	Haisen Microwave Sensor 12VDC Input, 0-10V Dimming, with Daylight Harvesting and Photocell Function, 3.5mm Audio Pin Black for Highbays (up to 39FT Ceiling)
90555	HSN-REMCON-HD06R	Remote control for DC sensor 0-10V Dimming 12VDC, 3.5mm Audio Pin

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LED Luminaires

Essential Round Highbay

Specifications Table

	ERHB-1-LS-CS-U	ERHB-2-LS-CS-U	ERHB-3-LS-CS-U	ERHB-4-LS-CS-U
Nominal Wattage	60W/80W/100W	90W/120W/150W	120W/150W/200W	180W/210W/240W
Delivered Lumens at 5000K	9,900/12,500/15,000	13,800/18,000/21,600	19,600/23,100/29,500	26,700/30,600/34,200
Efficacy (lm/W)	148-161	144-156	147-158	146-153
Amperage	120VAC (1.0A) 277VAC (0.38A)	120VAC (1.45A) 277VAC (0.56)	120VAC(1.95A) 277VAC(0.735A)	120VAC (2.45A) 277VAC (0.873A)
Distribution	90 Degree			
CCT	4000K/5000K Selectable			
CRI	>80 CRI			
L70 Lifetime (hrs)	>100,000 Hrs			
Voltage	Universal 120-277VAC			
Power Factor	>0.9			
Dimming	0-10VDC Dimming			
Housing Material	Die-cast Aluminum with Powder Coated Finish			
Lens	Polycarbonate Lens			
Operating Temperature	-40°C to 50°C (-40°F to 122°F)			
Listings	UL, cUL, DLC 5.1 Premium, DLC 6.0 Standard			
Environment	IP 65, UL Wet Location Rating			
Weight (lbs)	5.73	5.95	7.05	7.27
Warranty	5 Years Standard			

Performance Table

			4000K		5000K	
Product Code	**Selectable Wattage**	**Beam Angle(°)**	**Lumen Output (lm)**	**Efficacy (lm/W)**	**Lumen Output (lm)**	**Efficacy (lm/W)**
ERHB-1-LS-CS-U	60	90	9,680	161	9,930	162
	80	90	12,465	158	12,520	156
	100	90	15,691	158	15,176	149
ERHB-2-LS-CS-U	90	90	13,794	159	13,888	157
	120	90	17,885	153	17,906	148
	150	90	26,511	156	21,657	145
ERHB-3-LS-CS-U	120	90	19,466	161	19,658	159
	150	90	23,078	156	23,154	153
	200	90	30,273	153	29,532	147
ERHB-4-LS-CS-U	180	90	26,511	156	26,782	154
	210	90	30,443	151	30,595	147
	240	90	35,088	151	34,203	146

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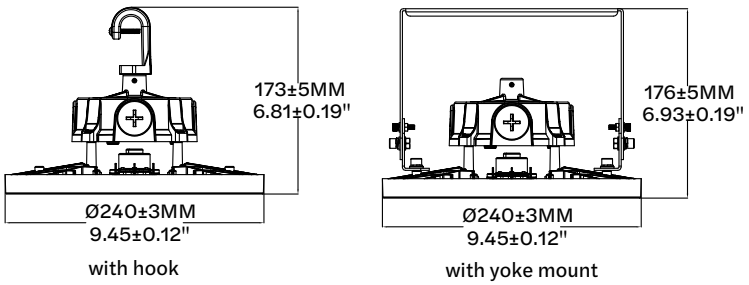
Essential Round Highbay

Dimensions

Essential Round Highbay Dimensions

ERHB-1-LS-CS-U



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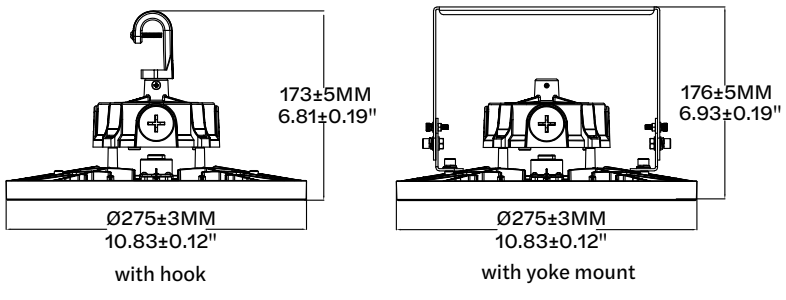

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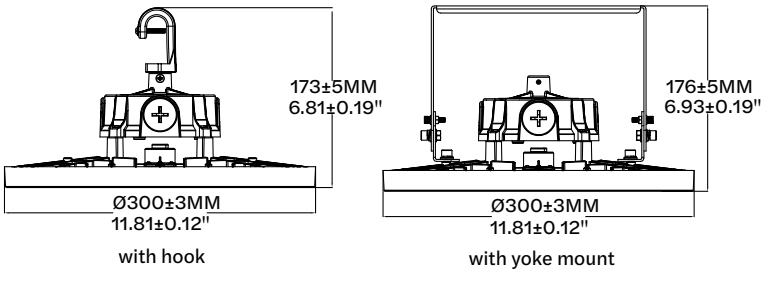

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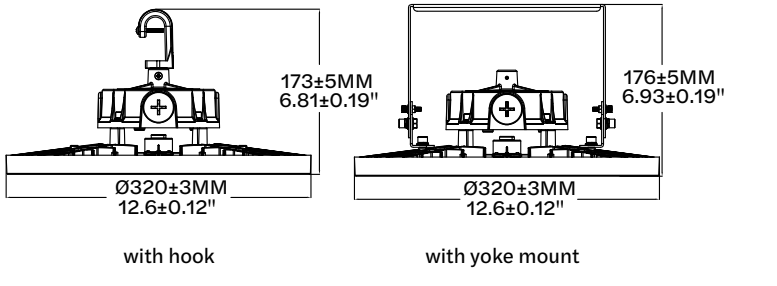

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LED Luminaires

Essential Round Highbay

Accessory Options

Pendant Mount Adapter

Product SKU	Product Code	Description
37308	ERHB-PA	Pendant Mount Adapter Essential Round Highbay (G1 & G2)

Highbay Junction Box Mount

Product SKU	Product Code	Description
30260	HRHB-JBOX	Junction Box Mount Top Thread NPS 3/4in Female, Bottom Thread NPS 1/2in Male

Hook

Product SKU	Product Code	Description
30432	HRHB-34-HOOK	NPS 3/4" Male Steel Hook for use with Junction Box 30260

Stepdown Transformer

Product SKU	Product Code	Description
74120	ES-TB325-01	Haisen Stepdown, Autotransformer 480V to 208V, 347V to 150V or 277V to 120V

High Voltage Conversion Kit

Product SKU	Product Code	Description
30416	ERHB-HV-KIT	Contains HV Driver 74120, J-Box 30260 and NPS 3/4" Cast Aluminum Hook 30432

Yoke Mount

Product SKU	Product Code	Description
37316	ERHB-YB-G2	Yoke Mount Bracket

Wire Guards

Product SKU	Product Code	Description
37317	ERHB-12-WG	Wire Guard for 100W and 150W
37318	ERHB-34-WG	Wire Guard for 200W and 240W

Reflectors

Product SKU	Product Code	Description
37319	ERHB-12-PC	Polycarbonate Reflector for 100W, 150W
37320	ERHB-34-PC	Polycarbonate Reflector for 200W, 240W
37321	ERHB-12-AL	Aluminum Reflector for 100W, 150W
37322	ERHB-34-AL	Aluminum Reflector for 200W, 240W

Polycarbonate | Aluminum

Battery Backup

Product SKU	Product Code	Description
96104	BBU-30W	Emergency Battery Pack 30W for 60W-240W Round High Bays

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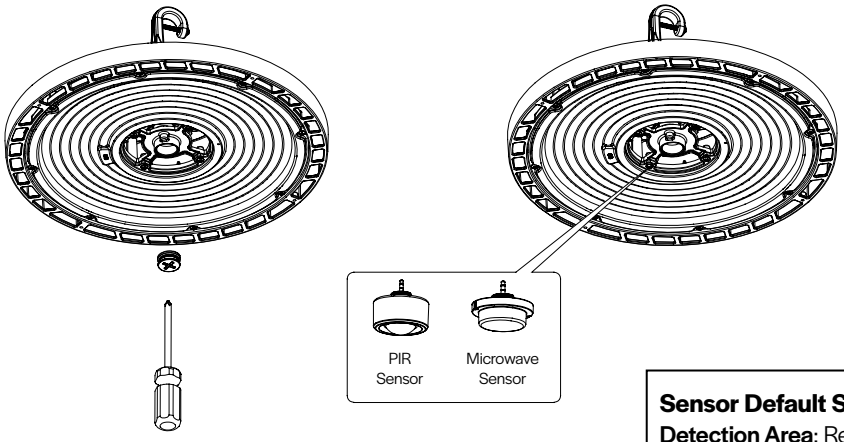
Essential Round Highbay

Controls

Quick Install Controls - Sold Separately

Motion Sensors			
Image	**Product SKU**	**Product Code**	**Description**
	37314	HSN-SEN-PIR-DAY-010-3.5-BK	Haisen PIR Sensor 12VDC Input, 0-10V Dimming, with Daylight Harvesting and Photocell Function, 3.5mm Audio Pin Black for Highbays (up to 39FT Ceiling)
	37315	HSN-SEN-MS-DAY-010-3.5-BK	Haisen Microwave Sensor 12VDC Input, 0-10V Dimming, with Daylight Harvesting and Photocell Function, 3.5mm Audio Pin Black for Highbays (up to 39FT Ceiling)
Remote Control			
Image	**Product SKU**	**Product Code**	**Description**
	90555	HSN-REMCON-HD06R	Remote control for DC sensor 0-10V Dimming 12VDC, 3.5mm Audio Pin



Quick Installation Instructions

1. Ensure power is not applied at fixture
2. Unscrew 1/2" knockout with screwdriver as illustrated
3. Insert the 3.5mm sensor plug fully into the receptacle until it clicks into place
4. Reapply power to fixture
5. Use the remote control to adjust motion settings and operating modes

Sensor Default Settings

Detection Area: Remote Control: 25%/50%/75%/100%
Rotating Switch: Default Setting 100%

Hold Time: Remote Control: 5s/30s/1min/3min/5min/10min/20min/30min
Rotating Switch: 5s/1min/5min/10min

Daylight Sensing: Remote Control: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux /200Lux/250Lux/300Lux/350Lux/400Lux/Disable
Rotating Switch: Default Setting Disable

Stand-by Dimming Level: Remote Control: 10%/20%/30%/50%
Rotating switch: 0%/10%/20%/30%

Stand-by Period: Remote Control: 0s/10s/30s/1min/5min/10min/ 30min/60min/+∞
Rotating switch: Default Setting +∞

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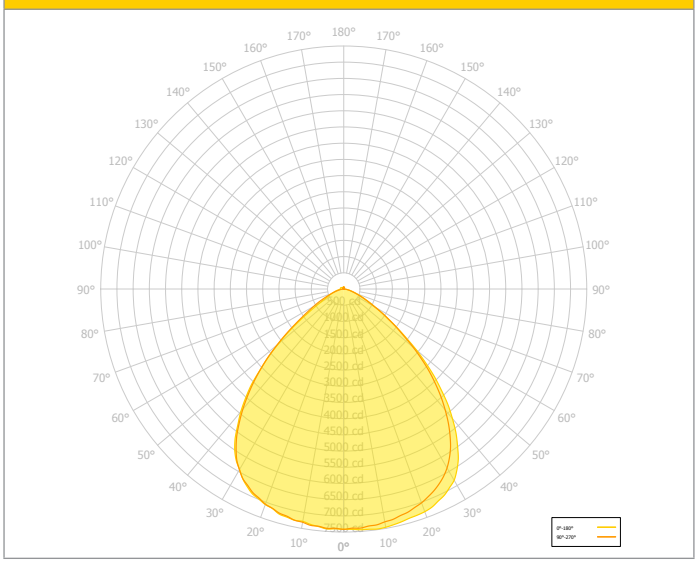
Photometrics

*The below diagrams and zonal lumen summaries represent each fixture at highest wattage selection and at 5000K. For complete photometry/IES files, please contact the factory.

ERHB-1-LS-CS-U



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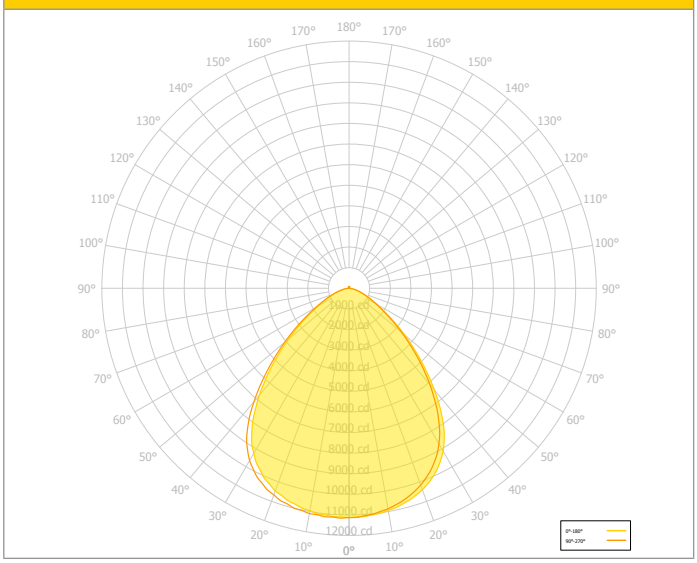

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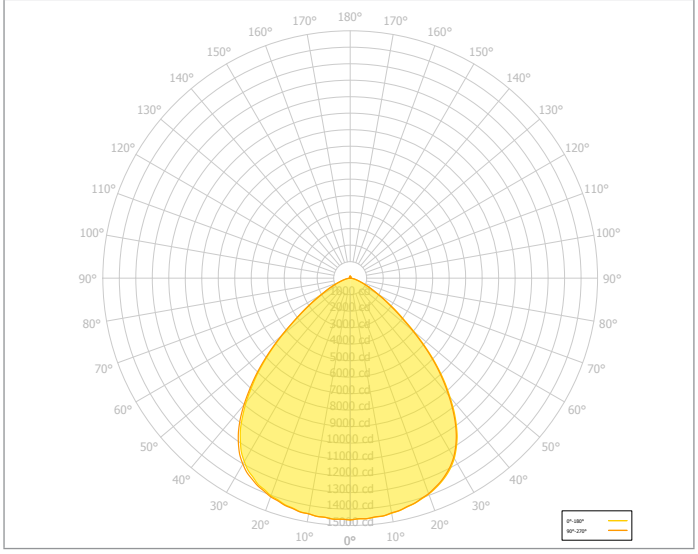
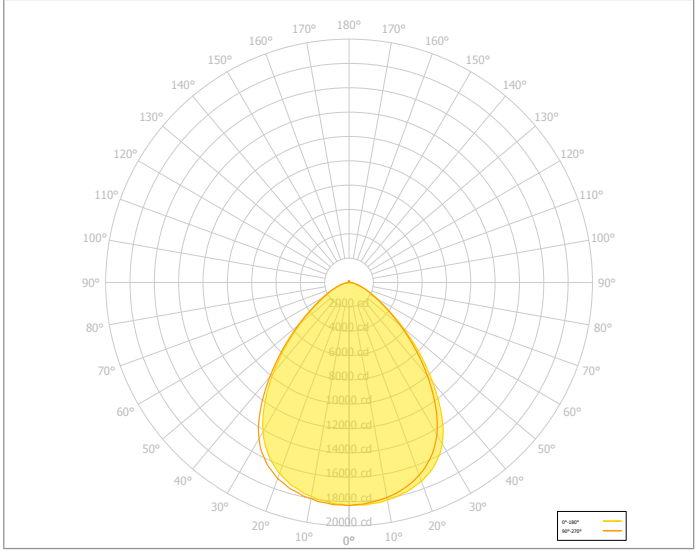


ERHB-4-LS-CS-U



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