Catalog #:

Type:

Preparer:

Notes:

Date:



HB Series

ECO Round High Bay 17,651 - 29,756 Lumens | 175-400W HID Equivalent

Project Applications

Retrofit, New Construction, Commercial, Industrial, Warehouse, Manufacturing, Big Box Retail, General Open Spaces



*120W/150W fixtures shown (drop reflectors & yoke accessories are ordered separately)



PRODUCT OVERVIEW

ETi SSL's HB ECO Round High Bay Series combines a robust and durable die-cast design with excellent performance (17,651 - 29,756 lumen packages available @ up to 148 LPW) It is an ideal design solution with its universal round form factor for many new construction and retrofit commercial and industrial applications. Our products are engineered using the latest innovative LED technologies to provide the perfect mix of modern design, performance, world class quality and reliability. All at a superior value to the designer, specifier, contractor and end-user.

The HB series is rated IP65 to minimize environmental impact from contaminants like dust and bugs to maximize photometric performance over the lifetime of the luminaire. Our extremely efficient optical system qualifies for DLC Premium (pending) for superior energy savings and can qualify for maximum energy rebate opportunities. The HB series delivers a performance first uniform light distribution optimized for most general open space applications. Optional secondary drop prismatic and aluminum reflectors are available for additional design flexibility. Each fixture includes an optional diffusing lens filter that can be easily installed to help significantly reduce direct-view visual glare, brightness and LED pixelation for superior visual comfort within the space when needed.

Robust thermal management is optimized thanks to the luminaire's pass-through convective cooling die-cast heatsink design. Helping to maximize the total system life and performance of the luminaire. Even in demanding high ambient applications thanks to our 50° C high ambient temperature rating. ETi takes great pride in our dedication to providing solutions with the product reliability and quality that you can always depend on.

In-stock base HB SKUs typically ship in 2-3 days. Rapid Ship SKUs (w/ installed occupancy sensors, BBUs or both) typically ship in 2-weeks or less. (All BBU options & configurations are COMING SOON, early Q2 availability, contact factory for details)

KEY PRODUCT FEATURES, DETAILS & SPECS

- All configurations to be DLC Premium qualified for max energy savings & rebates
- Up to 148 LPW provides 60+% in energy savings vs. legacy HID, T5 & T8 luminaires
- 120W @ 17,651 lumens, 150W @ 22,242 lumens, 202W @ 29,756 lumens
- 80+ CRI standard for true accurate color rendering & visual performance
- · Fixture ships w/ optional diffusing lens filter to improve visual glare (field installed)
- Die-cast design w/ pass-through convective heatsink maximizes life & performance
- -40° to 50° C (-40° to 122° F) high ambient temp rating for demanding applications
- IP65 rated luminaire minimizes environmental impact from contaminants
- Robust 4kV LED driver surge protection is standard for added protection

- Reported L75/102,000, Projected L70 @ 128,000 hours (per IES TM21)
- Drop prismatic or aluminum reflectors available for added design flexibility
- Standard universal O-ring mount for quick & easy pendant installation
- Weighing in at only 9.3 lbs allows for ease of handling & fixture installation
- Optional yoke mount w/ hook allows for tilt aiming & added install flexibility
- 120-277V drivers w/ 0-10V dimming (down to 10%) capability as standard
- Optional occupancy sensor for added energy savings & code compliance
- BBU options for safety & code compliance (CA Title 20 MAEDBS, COMING SOON)
- Ideal for many commercial & industrial applications (retrofit & new construction)

STOCK ORDERING INFORMATION (typical 2-3 day shipment lead time)^{1,2,3}

Catalog Logic/PT#	Model #	UPC	Size	Lumens	Wattage	LPW	сст	CRI	Voltage	Dimming	DLC ³
HB-16200LM-8-50K-MV-LVD	63802161	50849489066054	10.2" dia.	17,651	120.3	146.7	5000K	80 (min)	120-277V	0-10V	Premium
HB-20250LM-8-50K-MV-LVD	63802261	50849489066061	10.2″ dia.	22,242	150.5	147.8					(PENDING)
HB-27000LM-8-50K-MV-LVD	63803361	50849489066078	11.4″ dia.	29,756	201.8	147.4					

Notes:

1. See next page for additional available rapid ship product configurations and stock accessories.

Stock SKUs typically ship in 24-48 hours upon receipt of an approved released order.
 Search first 6-digits of the model # followed by '##' on the DLC QPL...Ex. '638021##') to view DLC qualified SKUs.

3. Search mist or ungress of the model # followed by ## on the DLC QPL...Ex. '538021##') to View DLC qualified SKUs.



2-WEEK RAPID SHIP PROGRAM DETAILS (typical 2-week shipment lead time)^{1,2,3}

OCCUPANCY SENSOR INSTALLED - RAPID SHIP ORDERING INFORMATION^{1,2,3}

Catalog Logic/PT#	Model #	Rapid Ship Option	Sensor Model # ²	DLC ³
HB-16200LM-8-50K-MV-LVD-EOS	63802161-I	OC Sensor	70201102	Premium
HB-20250LM-8-50K-MV-LVD-EOS	63802261-I			(PENDING)
HB-27000LM-8-50K-MV-LVD-EOS	63803361-I			

(COMING SOON, early Q2 availability)

BATTERY BACKUP UNIT (BBU) INSTALLED - RAPID SHIP ORDERING INFORMATION^{1,2,3,4,5}

Catalog Logic/PT#	Model #	Rapid Ship Option	BBU Model # ^{2,4}	DLC ³				
HB-16200LM-8-50K-MV-LVD-EM-R25	63802161-EM-R25	BBU Round (25W)	70112201-2-KIT (25W)	Premium				
HB-20250LM-8-50K-MV-LVD-EM-R25	63802261-EM-R25			(PENDING)				
HB-27000LM-8-50K-MV-LVD-EM-R25	63803361-EM-R25							
HB-16200LM-8-50K-MV-LVD-EM-R40	63802161-EM-R40	BBU Round (40W)	70114401-2-KIT (40W)	Premium				
HB-20250LM-8-50K-MV-LVD-EM-R40	63802261-EM-R40			(PENDING)				
HB-27000LM-8-50K-MV-LVD-EM-R40	63803361-EM-R40							

(COMING SOON, early Q2 availability)

OC SENSOR & BATTERY BACKUP UNIT (BBU) INSTALLED - RAPID SHIP ORDERING INFORMATION^{1,2,3,4,5}

Catalog Logic/PT#	Model #	Rapid Ship Options	Sensor Model # ²	BBU Model # ^{2,4}	DLC ³
HB-16200LM-8-50K-MV-LVD-EOS-EM-R25	63802161-I-EM-R25	OC Sensor & BBU Round	70201102	70112201-2-KIT	Premium
HB-20250LM-8-50K-MV-LVD-EOS-EM-R25	63802261-I-EM-R25	OC Sensor & BBU Round		(25W)	(PENDING)
HB-27000LM-8-50K-MV-LVD-EOS-EM-R25	63803361-I-EM-R25	OC Sensor & BBU Round			
HB-16200LM-8-50K-MV-LVD-EOS-EM-R40	63802161-I-EM-R40	OC Sensor & BBU Round	70201102	70114401-2-KIT	Premium
HB-20250LM-8-50K-MV-LVD-EOS-EM-R40	63802261-I-EM-R40	OC Sensor & BBU Round		(40W)	(PENDING)
HB-27000LM-8-50K-MV-LVD-EOS-EM-R40	63803361-I-EM-R40	OC Sensor & BBU Round			

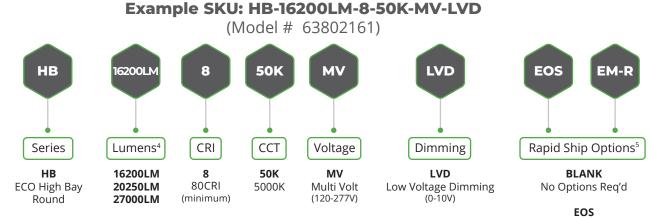
Notes

1. Rapid Ship SKUs typically ship in 2-weeks or less, direct from ETi with the available options pre-installed (lead times can be quantity dependent, always contact factory to confirm).

Sensor and BBU Model #'s are also in-stock as accessory items that can be ordered separately for field install, maintenance or warranty replacement (see below for additional item details).
 Search first 6-digits of the model # followed by '##' on the DLC QPL...Ex. '638021##') to view DLC qualified SKUs ('Rapid Ship' SKUs are currently DLC PENDING, always check QPL to confirm).
 BBUs are certified in CA Title 20 MAEDBS (search by standalone BBU catalog logic/PT#).

BBU Rapid Ship SKUs are coming soon, early Q2 availability (contact factory for details).

CATALOG LOGIC | PART # DECODER^{1, 2, 3}



Notes:

1. This product is not configurable, only designated 'Stock' & 'Rapid Ship' SKUs are available.

2. Decoder is to help clarify Catalog Logic | Part # configurations only (see Stock & Rapid Ship Ordering Information for available SKUS).

- 3. Additional 240-500W configurations are available for special order (contact factory for details, extended lead times may apply).
- 4. Lumen values shown are nominal (see Stock Ordering Information or Photometric Details sections for additional performance details).

6. BBUs are certified in CA Title 20 MAEDBS (search by standalone BBU catalog logic/PT#).

(All BBU options & configurations are COMING SOON, early Q2 availability, contact factory for details)

EM-R40⁶ Emergency BBU Round 40W

External Occupancy Sensor

EM-R25⁶

ETi Solid State Lighting 720 Northgate Parkway, Wheeling, IL 60090 | TEL: 1.855.384.7754 E-mail: etiorders@ETiSSL.com | www.ETiSSL.com All specifications are subject to change without notice. All reported values are nominal or typical values, measured under laboratory conditions @ 25° C (77° F). Actual performance can vary slightly as a result of end-user application & environment.

AVAILABLE STOCK ACCESSORIES (must be ordered separately)







*shown w/ optional OC sensor installed

*Yoke shown assembled (requires field assembly & installation).

Additional Mounting Accessories^{1,2,3,4} (field installed) Occupancy Sensor^{1,2,3,4,5} (field installed)

Catalog Logic/PT# M	lodel #	Description	Catalog Logic/PT#	Model #	Description	
EHBR-YKHK ^{1,2,3,4} 70	0507101	Yoke & hook mount kit (100-240W)	MC054V-RC2-A-KIT ^{1,2,3}	70201102-KIT	External step-dim microwave OC sensor kit	

Notes:

- 1. Yoke & hook mount kit requires field assembly & installation to luminaire.
- Yoke can be surface mounted without the included hook accessory.
 Yoke allows for tilt adjustment up to 85° from horizontal.
- 4. OC sensor kit is not compatible with the yoke mount accessory.
- (compatible version coming soon)



- 1. 70201102-KIT includes the OC sensor (70201102) & the hardware installation kit (70316101). 2. OC sensor kit is compatible for use with secondary drop reflectors.
- 3. OC sensor kit is not compatible with the yoke mount accessory (compatible version coming soon).
- 4. Factory OC sensor settings can be changed w/ (70205101) handheld remote programmer accessory.
- (see Instruction Manual for settings & details)



Emergency LED Driver/BBU^{1,2,3,4} (COMING SOON, early Q2 availability) (BBU field installed - fixture only & w/ OC sensor or 0-10V dimming)

Catalog Logic/PT#	Model #	Description
EMUFO-25170-YY-KIT (G3)	70112201-2-KIT	Round, 25W, IP65, 90 min, install kit
EMUFO-40170-YY-KIT (G3)	70114401-2-KIT	Round, 40W, IP65, 90 min, install kit
EM-R-TEST-REMOTE ³	70203101	Round BBU handheld test remote

Notes

- 1. BBUs certified in CA Title 20 MAEDBS. (search by BBU catalog logic/PT#, Ex. 'EMUFO-25170-YY') 2. Multiply the LPW of specified SKU by BBU wattage for the approximate delivered lumens.
- (Ex. 147 LPW x 25-watts = approximately 3,675 lumens)
 BBU handheld test remote max operating distance of 98' (29.9m).
- 4. All BBU SKUs are coming soon, early Q2 availability (contact factory for details).

OCCUPANCY SENSOR FACTORY SETTINGS DETAILS

Occupancy Light Level - 'High Light Level'

When 'Occupancy' is detected, the fixture will remain or switch on at the set dimming level or 'High Light Level'.



100%

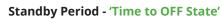
Hold Time - 'Zero Occupancy Time'

Time required with zero occupancy before dimming to the 'Low Light Level' mode or switching to an 'off state'.



Standby Dim Level - 'Low Light Level'

After 'Hold Time' elapses with zero occupancy detected the fixture will dim to the 'Low Light Level' or standby dim level.



Time required after 'Hold Time' elapses before the fixture will switch to an 'off state' with zero occupancy detected.

If set to 0 seconds, fixture will switch to an 'off state' after 'Hold Time' elapses. If set to +∞, the fixture will stay in the 'Low Light Level' mode until occupancy is detected.









- 5. Max handheld remote programmer operating distance of 49.2' (15m)

70205101

*shown installed w/ optional OC sensor

Additional Performance Accessories^{1,2} (field installed)

Catalog Logic/PT#	Model #	Description
EHBR-ALR	70505101	90° drop aluminum reflector
EHBR-CPR	70506101	90° drop prismatic reflector
EHBR-WG	70509101	Wire guard

Notes:

1. All additional performance accessories requires field installation.

Sensitivity Level

Daylight Sensor

2. OC sensor kit is compatible for use with secondary drop reflectors.

Additional Factory Sensor Settings^{1,2} **Factory Settings** Function **Detection Area** 100% (sensor range)

Disabled

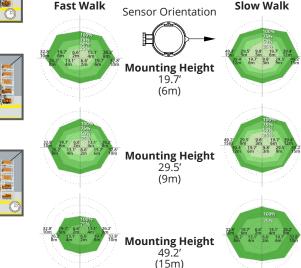
Notes:

1. Settings can be changed using the (70205101) remote programmer. (Max handheld remote programmer operating distance of 49.2' (15m))

HS - High Sensitivity

2. See Instruction Manual for operation and additional setting details.

Sensor Detection Pattern & Range



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PHOTOMETRIC DETAILS

HB-16200LM-8-50K-MV-LVD

Luminaire Data	
IES File Name	63802161.IES
CCT & CRI	5000K, 80CRI minimum
Initial Delivered Lumens	17,651
Wattage	120.3W
Efficacy	146.7
Beam Angle	50% = 114° 10% = 154°
Spacing	0° = 1.32 90° = 1.30
Photometric values based of	on tests performed

Indoor Candela Plot 6289 cd 3145 cd 4717 cd 6289 o

20'

Zone	Lumens	% Luminaire
0-30	4944	28.0%
0-40	8173	46.3%
0-60	14589	82.7%
0-90	17634	99.9%
0-180	17651	100.0%

in compliance with LM-63 & LM-79 Coefficients of Utilization

coenic	lents		nzati	011				0	° 45'	90°								
								Effective	Floor Ca	vity Refl	ectance 2	20%						
rc		80)%			70)%			50%			30%			10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

HB-20250LM-8-50K-MV-LVD

Luminaire Data

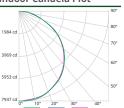
IES File Name	63802261.IES				
CCT & CRI	5000K, 80CRI minimum				
Initial Delivered Lumens	22,242				
Wattage	150.5W				
Efficacy	147.8				
Beam Angle	50% = 114 ^o 10% = 154 ^o				
Spacing	0° = 1.32 90° = 1.30				
Spacing 0° = 1.32 90° = 1.30 Photometric values based on tests performed in compliance with LM-63 & LM-79					

80%

Coefficients of Utilization

rc

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	6248	28.1%
0-40	10319	46.4%
0-60	18421	82.8%
0-90	22220	99.9%
0-180	22242	100.0%

Candlepower

Candlepower

Angle

0°

90°

Angle	0 °	90°
0	7933	7933
5	7915	7901
10	7838	7817
15	7712	7681
20	7526	7483
25	7275	7226
30	6959	6915
35	6580	6528
40	6140	6064
45	5638	5537
50	5074	4958
55	4438	4314
60	3630	3501
65	2785	2626
70	1903	1744
75	1077	942
80	421	328
85	97	81
90	7	4

Effective Floor Cavity Reflectance 20%

	C		00	//0			/(170			5070			5070			1070		0.10
r	w	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
R	CR																		
(0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
	1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
	2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
	3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
	4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
	5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
	6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
	7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
	8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
	9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
1	10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

HB-27000LM-8-50K-MV-LVD

Lumi	inaire	Data

IES File Name	63803361.IES		
CCT & CRI	5000K, 80CRI minimum		
Initial Delivered Lumens	29,756		
Wattage	201.8W		
Efficacy	147.5		
Beam Angle	50% = 114° 10% = 154°		
Spacing	0° = 1.30 90° = 1.30		
Photometric values based on tests performed in compliance with LM-63 & LM-79			
Coefficients of Utilization			

Indoor Candela Plot 2664 cd 5327 cd 7991 cd

Zonal	Lumen	Summary

Zone	Lumens	% Luminaire
0-30	8374	28.1%
0-40	13811	46.4%
0-60	24624	82.8%
0-90	29727	99.9%
0-180	29756	100.0%

Effective Floor Cavity Reflectance 20% 80% 70% rc rw RCR 0 110 84 55 _____71

Candlepower

Angle	0°	90°
0	10651	10651
5	10610	10600
10	10503	10482
15	10325	10293
20	10076	10024
25	9714	9663
30	9264	9211
35	8726	8681
40	8123	8081
45	7448	7402
50	6683	6616
55	5795	5720
60	4778	4682
65	3632	3545
70	2445	2370
75	1348	1268
80	514	452
85	113	99
90	15	6



All specifications are subject to change without notice. All reported values are nominal or typical values, measured under laboratory conditions @ 25° C (77° F). Actual performance can vary slightly as a result of end-user application & environment.

PRODUCT SPECIFICATIONS

Construction

Die-cast white primary housing with specially engineered alternating heatsink fins and dedicated slots to help promote pass-through convective cooling. Reduces the fixture's operating temperatures to increase life of all electrical components and improved lumen maintenance over time. A separate die-cast driver housing is isolated from the primary heatsink to further increase component life. Complete fixture, including the driver housing and optical assembly are fully sealed and rated for IP65 ingress protection to protect the luminaire from environmental contaminants. Fixture is designed for use in wet locations.

Optics & LED Platform

LEDs are surface mounted to a metal printed circuit board (MCPCB) and is coupled with a clear tempered glass lens. Designed to generate an extremely uniform allpurpose symmetrical beam distribution (50% beam @ 114°, 10% beam @ 144°). An optional diffusing lens filter is included with each fixture (field installed) to provide a uniform and soft visual appearance when in direct-view to help reduce glare, brightness and LED pixelation for excellent visual comfort. Optional 90° secondary prismatic and aluminum reflectors are available separately. Available in 5000K CCT, with a minimum CRI of 80.

Electrical

UL recognized drivers are rated for 50,000 hours to deliver optimal performance over the extended system life of the luminaire. Universal 120-277V with 0-10V dimming capability (dimming range of 100% to 10%) for use with secondary controls by others. Fixture is supplied with 6' of 3-wire S/O cord and 6' of 2-wire dimming cord. Drivers shall have a power factor greater than 0.90 and less than 20% total harmonic distortion. 4kV surge protection is standard. Drivers are rated for FCC part 15 Class B use in commercial applications. 75.29% LED lumen maintenance at 102,000 hours (L75/102,000) per IES TM21. Projected L70 @ 128,000 hours.

Mounting & Installation

Luminaire is designed for easy and flexible pendant/suspension mount installation via standard O-ring mounting system. Fixture includes 6' of 5-wire S/O cord with dimming leads provided for ease of installation. Optional adjustable yoke mount bracket accessory with hook mount accessory (use as needed) is available for field installation and field aiming as required (see mounting options for more detail). Installer must ensure installation compatibility in any application and overall compliance to all applicable local and national building and electrical codes.

Compliance & Certification

All luminaires are cULus listed and are built for wet location use. Complete fixture, including driver housing and optical assembly are rated IP65. Shall be suitable for use in -40° C (-40° F) to 50° C (122° F) high ambient environments. Complies to FCC part 15 Class B. Adheres to LM79, LM80 and TM21 industry standards for performance and lifetime calculations. DesignLights Consortium® (DLC) Premium qualified (pending) product. Always refer to DLC website at www.designlights.org/QPL to confirm specific product configurations that are qualified.

(Search first 6-digits of the model # followed by '##' on the DLC QPL...Ex. '638021##' to view DLC qualified products)

Standard Available Control Options

Optional external mounted microwave occupancy sensors are available (compatible with fixture only & secondary reflector accessories). Factory sensor settings can be changed using an optional handheld remote programmer accessory (15m|49.2' max distance, see instruction manual for details). Standard factory default settings: 100% high, 10% low, hold time @ 5 minutes (no motion detected, dim to low), standby time @ 5 minutes (time after hold time w/ no motion detected fixture turns off), daylight sensor is disabled.

Standard Available Emergency BBU Options (All BBU options & configurations are COMING SOON, early Q2 availability, contact factory for details)

Optional remote/external emergency battery backup units are available in approximately 25 or 40-watts for 120-277V use to meet required life-safety requirements (50° C/122° F max ambient). The battery system provides 90-minutes of continuous power to the LED system for code compliance. BBUs are certified in CA Title 20 MAEDBS. Test switch/indicator light is located on the exterior housing of the round BBU housing. An optional handheld test remote is also available. Multiply the lumens per watt of the specified SKU by the BBU wattage for the approximate delivered lumens. (Ex. 147 LPW x 25-watts = approximately 3,675 lumens)

Warrantv

The HB Series of round high bay luminaires ships with ETi SSL's 5-year standard warranty. (Terms & Conditions apply)

MISCELLANEOUS PRODUCT SPECIFICATIONS & DETAILS

Load Information

Lumon Maintonanco

Power Factor	> 0.90			
THD	< 20%			
Frequency	50/60 Hz			
Sound Rating	< 20 Dba			
Low Temp Start	-40° C (-40° F)			
Max Temp	50° C (122° F)			
Unit Weight (120W)) 7.0 lbs			
Unit Weight (150W)	7.0 lbs			
Unit Weight (202W)	9.3 lbs			

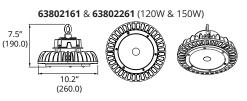
Ambient	TM-21 Lumen Maintenance
Temperature	(102,000 hours)
25° C (77° F)	> 75.29% (all wattages)
Ambient	TM-21 Theoretical L70
Temperature	(hours)
25° C (77° F)	128,000 (all wattages)

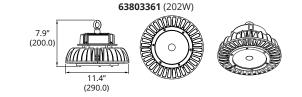
Shipping Information*

Size	Unit Weight	Pallet (48"l x 40"w x 57"h)		
120W	8.3 lbs	TBD units per		
150W	8.3 lbs	TBD units per		
202W	10.8 lbs	TBD units per		

*Pallet details coming soon.

KEY DIMENSIONAL INFORMATION





Note: All dimensions are in inches (millimeters).



All specifications are subject to change without notice. All reported values are nominal or typical values, measured under laboratory conditions @ 25° C (77° F). Actual performance can vary slightly as a result of end-user application & environment.

PROJECT NOTES

