ETi SOLID STATE LIGHTING INC.

HBL SERIES

EZ INSTALL LINEAR HIGH BAY

12713 - 24660 Delivered Lumens | 175-400W HID Equivalent

KEY FEATURES

Each HBL EZ Install High Bay luminaire has a low profile—overall height of 2.1" and is light weight (7.0 – 9.5 lbs.) for quick and easy installation. This versatile luminaire comes ready for suspension mounting. Optional tandem mount bracket quickly & easily links two fixtures together.

CCT & Light Quality

- 80+ CRI (up to 86) with high R13 values
- CCT: 5000K

Light Output & Efficacy

- High Lumen Output: 12713 – 18529 lumens (2')
                                        24660 lumens (2.75')
- Efficacy Rating:
  2 FT: 134.2 – 135 | **2.75 FT:** 136.5
- Reported L91/54,000, Projected L70 @ 204,800 hours (min shown per IES TM21); 91.2% LED lumen maintenance at 54,000 hours

Dimming, Voltage, Controls

- 1–10V dimming to 10%
- Universal voltage (120–277V)
- BBU & OC Sensor Options Available

2 FT

2.75 FT

5 YEAR WARRANTY

Tandem Fixture Mount Accessory Available

SPECIFICATIONS

Construction

- Formed steel housing, Full-length center driver housing for max thermal protection and reduced operating temperatures
- Additional removable top wiring access cover plate with a 1/2" and 3/4" knockout for wire entry
- Each housing end cap includes a single 1/2" knockout for thru-wire and tandem installation

Optics

- Frosted diffuse lens for reduced glare & visual comfort
- Shatter resistant lens for a variety of applications

Installation

- Easy and flexible suspension mount installation via supplied metal chain, V-clip and S-hook system
- Additional mounting kits available as accessories:

  Tandem mounting bracket accessory allows connection of multiple fixtures for continuous run and thru-wire

  Surface mount bracket and pendant stem/downrod accessories are also available

Electrical

- 149,000 hour LEDs at L70 for reduced maintenance
- Operates at 120–277V/50-60 Hz, with 0–10V dimmable driver, down to 10%
- UL recognized drivers are rated for 50,000 hours

Warranty

5-Year Standard Warranty. See terms at: ETiSSL.com/warranty/

Certifications & Test Data

- All luminaires are built to ETL industry standards for performance and lifetime calculations
- All luminaires are cETLus listed and are built for damp location use (See Page 4 for search info.)
- Reported L91/54,000, Projected L70 @ 204,800 hours (min shown per IES TM21)
- DLC® (DesignLights Consortium) Premium. Please refer to DLC for specific product qualifications at www.designlights.org (See Page 4 for search info.)
- Driver rated for FCC part 15 Class B for use in residential or commercial applications
- EM battery backup options for safety & code compliance (CA Title 20 MAEDBS)

DLC LISTED PREMIUM · ETL Intertek · DAMP LOCATION · FC · RoHS Compliant

LM 79 · LM 80 · TM 21 · IES

KEY DATA	
Lumen Range	12713 - 24660
Wattage Range	94.2 – 180.6
Efficacy Range (LPW)	134.2 – 136.5
Reported Life (Hours)	L70 / 204,800

HBL Series EZ INSTALL LINEAR HIGH BAY | 12713 - 6980 DELIVERED LUMENS | 175-400W HID EQUIVALENT

ORDERING GUIDE

2-FT

HBL	–	2FT	–		–	8	–	50K	–	MV	–	LVD	–		–	

Series	Size	Lumens	CRI	CCT	Voltage	Dimming	Rapid Ship Options
HBL High Bay Linear	**2FT**	(Lumen Package) **12000LM** 12420 **18000LM** 18630	**8** 80CRI (min.)	**50K** 5000K	**MV** Multi-Volt 120-277V	**LVD** Low Voltage Dimming 0-10V	**BLANK** No Options Req'd **EOS** External Occupancy Sensor **EM-S** Emergency BBU Square **EM-R** Emergency BBU Round

Note: Additional configurations may be available for special order (contact ETi for details, extended lead times may apply).

2.75-FT

HBL	–	2.75FT	–	24000LM	–	8	–	50K	–	MV	–	LVD	–		–	

Series	Size	Lumens	CRI	CCT	Voltage	Dimming	Rapid Ship Options
HBL High Bay Linear	**2.75FT**	(Lumen Package) **24000LM** 24300	**8** 80CRI (min.)	**50K** 5000K	**MV** Multi-Volt 120-277V	**LVD** Low Voltage Dimming 0-10V	**BLANK** No Options Req'd **EOS** External Occupancy Sensor **EM-S** Emergency BBU Square **EM-R** Emergency BBU Round

Note: Additional configurations may be available for special order (contact ETi for details, extended lead times may apply).

STOCK ORDERING INFORMATION (BASE) (typical 2-3 day shipment lead time)[1]

Catalog Part Number	Order Number	Description	Lumen Pkg	Delivered Lumens[2]	Wattage (Nominal)	Efficacy	CCT	CRI	Volt	Dim	DLC®
HBL-2FT-12000LM-8-50K-MV-LVD	50240161	2-Foot EZ Install High Bay, 12000 lm	12420	12713	92	132.4	5000K	80+	120-277V	0-10V	Premium Search: 502401##
HBL-2FT-18000LM-8-50K-MV-LVD	50240261	2-Foot EZ Install High Bay, 18000 lm	18630	18428	138	129.6	5000K	80+	120-277V	0-10V	Premium Search: 502402##
HBL-2.75FT-24000LM-8-50K-MV-LVD	50241161	2.75-Foot EZ Install High Bay, 24000 lm	24300	24660	180	126.8	5000K	80+	120-277V	0-10V	Premium Search: 502411##

2-FT 12000 RAPID SHIP OPTIONS (typical 2-3 day shipment lead time)[1]

Catalog Part Number	Order Number	Size	Lumen Pkg	Rapid Ship Option
HBL-2FT-12000LM-8-50K-MV-LVD-EOS	50240161-I	2 Ft	12420	External Occupancy Sensor
HBL-2FT-12000LM-8-50K-MV-LVD-EM-S	50240161-EM-S	2 Ft	12420	Square Emergency BBU
HBL-2FT-12000LM-8-50K-MV-LVD-EM-R	50240161-EM-R	2 Ft	12420	Round Emergency BBU
HBL-2FT-12000LM-8-50K-MV-LVD-EOS-EM-S	50240161-I-EM-S	2 Ft	12420	External Occupancy Sensor + Square Emergency BBU
HBL-2FT-12000LM-8-50K-MV-LVD-EOS-EM-R	50240161-I-EM-R	2 Ft	12420	External Occupancy Sensor + Round Emergency BBU

Notes: 1. Stock SKUs typically ship in 24-48 hours upon receipt of an approved released order
2. For more delivered lumens and test data on page 6, or visit ETiSSL.com

2-FT 18000 LM RAPID SHIP OPTIONS (typical 2-3 day shipment lead time)[1]

Catalog Part Number	Order Number	Size	Lumen Pkg	Rapid Ship Option
HBL-2FT-18000LM-8-50K-MV-LVD-EOS	50240261-I	2 Ft	18428	External Occupancy Sensor
HBL-2FT-18000LM-8-50K-MV-LVD-EM-S	50240261-EM-S	2 Ft	18428	Square Emergency BBU
HBL-2FT-18000LM-8-50K-MV-LVD-EM-R	50240261-EM-R	2 Ft	18428	Round Emergency BBU
HBL-2FT-18000LM-8-50K-MV-LVD-EOS-EM-S	50240261-I-EM-S	2 Ft	18428	External Occupancy Sensor + Square Emergency BBU
HBL-2FT-18000LM-8-50K-MV-LVD-EOS-EM-R	50240261-I-EM-R	2 Ft	18428	External Occupancy Sensor + Round Emergency BBU

2.75-FT 24000 LM RAPID SHIP OPTIONS (typical 2-3 day shipment lead time)[1]

Catalog Part Number	Order Number	Size	Lumen Pkg	Rapid Ship Option
HBL-2.75FT-24000LM-8-50K-MV-LVD-EOS	50241161-I	2.75 Ft	24300	External Occupancy Sensor
HBL-2.75FT-24000LM-8-50K-MV-LVD-EM-S	50241161-EM-S	2.75 Ft	24300	Square Emergency BBU
HBL-2.75FT-24000LM-8-50K-MV-LVD-EM-R	50241161-EM-R	2.75 Ft	24300	Round Emergency BBU
HBL-2.75FT-24000LM-8-50K-MV-LVD-EOS-EM-S	50241161-I-EM-S	2.75 Ft	24300	External Occupancy Sensor + Square Emergency BBU
HBL-2.75FT-24000LM-8-50K-MV-LVD-EOS-EM-R	50241161-I-EM-R	2.75 Ft	24300	External Occupancy Sensor + Round Emergency BBU

Notes: 1. Stock SKUs typically ship in 24-48 hours upon receipt of an approved released order

ACCESSORIES (must be ordered separately, field installed)

Occupancy Sensor[1,2] (Field installed)

Order Number	Description	Details	
70201101-2 (MC054V-RC2-D)	External mount step-dim microwave OC sensor		PRODUCT PAGE (located on ETiSSL.com)
70205101 (MH10)	OC sensor handheld remote programmer		PRODUCT PAGE (located on ETiSSL.com)

Notes:
1. Factory OC sensor settings can be changed w/ (MH10) handheld remote programmer accessory.
2. Max handheld remote programmer operating distance of 49.2' (15m) See Instruction Manual for settings & details.

Emergency LED Driver/BBU[1] for 2-FT 12000 and 18000 Lumen Fixtures Only (BBU field installed)

Order Number	Description	Details		CA Title 20 MAEDBS (BBU)
70112202-2 (EMA25FY-170)	**Dimmable or OC Sensor** Square, 25W, IP rated, 90 minutes		Ideal for surface and on-fixture installations	SPEC SHEET DOWNLOAD (located on ETiSSL.com)	Search: EMA25FY-170
70112201-2 (EMUFO-25170-YY)	**Dimmable or OC Sensor** Round, 25W, IP rated, 90 minutes		Ideal for pendant/ suspension installations	SPEC SHEET DOWNLOAD (located on ETiSSL.com)	Search: EMUFO-25170-YY
70203101 (EM-R-TEST-REMOTE)	Round BBU handheld test remote		BBU handheld test remote compatible w/ Round BBUs only (70112201-2, 70114401-2 models) & max handheld test remote operating distance of 98' (29.9m).	SPEC SHEET DOWNLOAD (located on ETiSSL.com)

Notes:
1. Multiply the LPW of specified SKU by BBU wattage for the approximate delivered lumens. (Ex. 127 LPW x 40-watts = approximately 5000 lumens)
2. 2-FT 12000 and 18000 Lumen Fixtures: If the 25w BBU options are out of stock, luminaires are also compatible with: 70114402-2 (40W, IP rated, 90 minutes, Square) and 70114401-2 (40W, IP rated, 90 minutes, Round)

ETi Solid State Lighting
720 Northgate Parkway, Wheeling, IL 60090 | TEL: 1.855.384.7754
E-mail: etiorders@ETiSSL.com | ETiSSL.com

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

HBL_EZ | May 24, 2023 | Page 3 of 6

ACCESSORIES (must be ordered separately, field installed)

Emergency LED Driver/BBU[1] for 2.75-FT 24000 Lumen Fixture (BBU field installed)

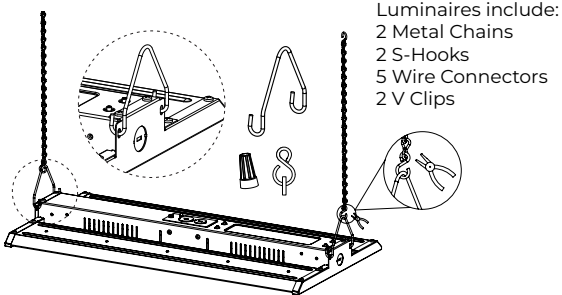| Order Number	Description	Details			CA Title 20 MAEDBS (BBU)
70114402-2 (EMA40FY-170)	**Dimmable or OC Sensor** Square, 40W, IP rated, 90 minutes		Ideal for surface and on-fixture installations	SPEC SHEET DOWNLOAD (located on ETiSSL.com)	Search: EMA40FY-170
70114401-2 (EMUFO-40170-YY)	**Dimmable or OC Sensor** Round, 40W, IP rated, 90 minutes		Ideal for pendant/suspension installations	SPEC SHEET DOWNLOAD (located on ETiSSL.com)	Search: EMUFO-40170-YY
70203101 (EM-R-TEST-REMOTE)	Round BBU handheld test remote		BBU handheld test remote compatible w/ Round BBUs only (70112201-2, 70114401-2 models) & max handheld test remote operating distance of 98' (29.9m).	SPEC SHEET DOWNLOAD (located on ETiSSL.com)	

Notes:
1. 2.75-FT 24000 Lumen Fixture is NOT COMPATIBLE with 70112202-2 (25W, IP rated, 90 minutes, Square) and 70112201-2 (25W, IP rated, 90 minutes, Round)

Additional Mounting Accessories (All additional mounting accessories requires field installation)
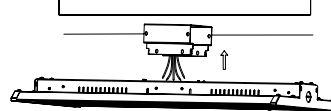
Model Number	Description	
95024016102	Tandem fixture mounting bracket (connect (2) HBL's together)	
95024016101	Surface mount bracket and end cover plates	
95024016103*	Pendant/stem bracket kit (1/2" conduit or 7mm threaded pipe)	
95457326101	Set of (2) 10' long air craft cables	

* Actual pendant stem/downrod by others (95024016103 is for the bracket kit only).
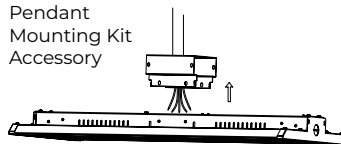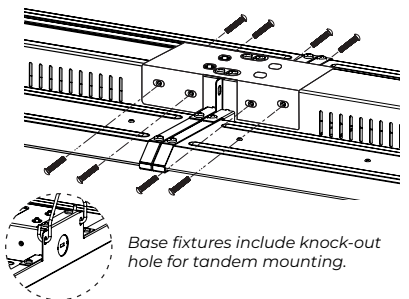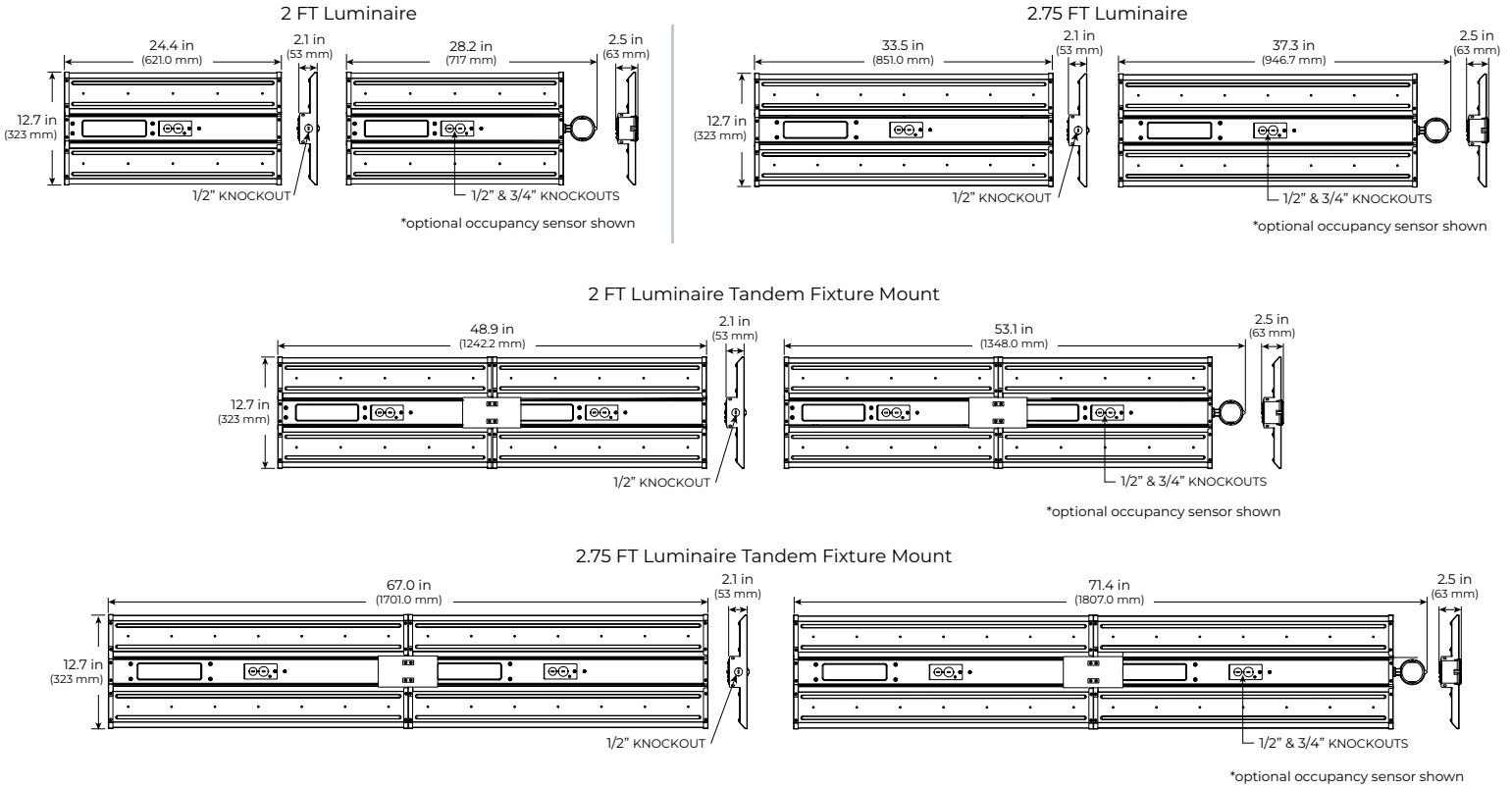
MOUNTING

Luminaires include:
2 Metal Chains
2 S-Hooks
5 Wire Connectors
2 V Clips

Surface Mount Accessory

Pendant Mounting Kit Accessory

Tandem Fixture Mount Accessory

Base fixtures include knock-out hole for tandem mounting.

HBL Series EZ INSTALL LINEAR HIGH BAY | 12,713 - 24,660 DELIVERED LUMENS | 175-400W HID EQUIVALENT

DIMENSIONS / DETAILS

2 FT Luminaire

24.4 in (621.0 mm)
2.1 in (53 mm)
28.2 in (717 mm)
2.5 in (63 mm)
12.7 in (323 mm)

1/2" KNOCKOUT
1/2" & 3/4" KNOCKOUTS
*optional occupancy sensor shown

2.75 FT Luminaire

33.5 in (851.0 mm)
2.1 in (53 mm)
37.3 in (946.7 mm)
2.5 in (63 mm)
12.7 in (323 mm)

1/2" KNOCKOUT
1/2" & 3/4" KNOCKOUTS
*optional occupancy sensor shown

2 FT Luminaire Tandem Fixture Mount

48.9 in (1242.2 mm)
2.1 in (53 mm)
53.1 in (1348.0 mm)
2.5 in (63 mm)
12.7 in (323 mm)

1/2" KNOCKOUT
1/2" & 3/4" KNOCKOUTS
*optional occupancy sensor shown

2.75 FT Luminaire Tandem Fixture Mount

67.0 in (1701.0 mm)
2.1 in (53 mm)
71.4 in (1807.0 mm)
2.5 in (63 mm)
12.7 in (323 mm)

1/2" KNOCKOUT
1/2" & 3/4" KNOCKOUTS
*optional occupancy sensor shown

OCCUPANCY SENSOR FACTORY SETTINGS DETAILS

100%

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'.

5 min

Hold Time - 'Zero Occupancy Time'

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

10%

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.
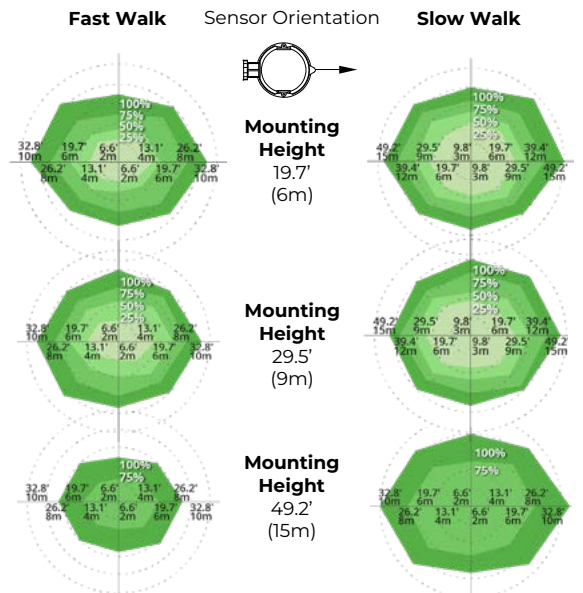
5 min

Standby Period - 'Time to OFF State'

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.

Additional Factory Sensor Settings[1,2]

Function	Factory Settings
Detection Area	100% (sensor range)
Sensitivity Level	HS - High Sensitivity
Daylight Sensor	Disabled

Notes:
1. Settings can be changed using the (70205101) remote programmer. (Max handheld remote programmer operating distance of 49.2' (15m))
2. See Instruction Manual for operation and additional setting details.

Sensor Detection Pattern & Range

Fast Walk Sensor Orientation **Slow Walk**

Mounting Height 19.7' (6m)

Mounting Height 29.5' (9m)

Mounting Height 49.2' (15m)

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

HBL Series EZ INSTALL LINEAR HIGH BAY | 12,713 - 24,660 DELIVERED LUMENS | 175-400W HID EQUIVALENT

PERFORMANCE / DATA

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)	Ambient Temperature	TM-21 Theoretical L70 (hours)
25° C (77°F)	> 91.69% (94W unit)	25° C (77°F)	218,500 (94W unit)
	> 91.15% (137W unit)		204,800 (137W unit)
	> 91.28% (181W unit)		207,900 (181W unit)

Load Information

|	
Power Factor	> 0.90
THD	< 20%
Frequency	50/60 Hz
Sound Rating	< 20 Dba
Low Temp Start	-40° C (-40° F)
Max Temp (94W, 137W)	50° C (122° F)
Max Temp (181W)	45° C (113° F)

PHOTOMETRIC SAMPLES

2FT 12000

IES

HBL-2FT-12000LM-8-50K-MV-LVD

Luminaire Data

CCT & CRI	5000K, 80CRI minimum
Initial Delivered Lumens	12,713
Wattage	94.2W
Efficacy	135.0
Beam Angle	50% = 102° 10% = 159°
Spacing	0° = 1.22 90° = 1.20

Photometric values based on tests performed in compliance with LM-63 & LM-79

Indoor Candela Plot
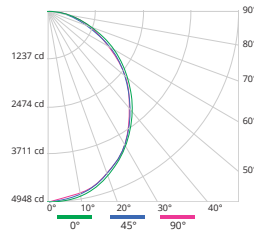
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3733	29.4%
0-40	6012	47.3%
0-60	10234	80.5%
0-90	12702	99.9%
0-180	12713	100.0%

2FT 18000

IES

HBL-2FT-18000LM-8-50K-MV-LVD

Luminaire Data

CCT & CRI	5000K, 80CRI minimum
Initial Delivered Lumens	18,428
Wattage	137.3W
Efficacy	134.2
Beam Angle	50% = 102° 10% = 159°
Spacing	0° = 1.20 90° = 1.22

Photometric values based on tests performed in compliance with LM-63 & LM-79

Indoor Candela Plot
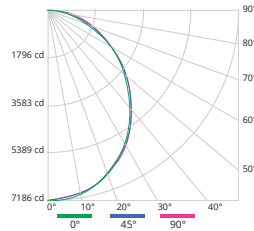
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	5426	29.4%
0-40	8733	47.4%
0-60	14851	80.6%
0-90	18412	99.9%
0-180	18428	100.0%

2.75 FT 24000

IES

HBL-2.75FT-24000LM-8-50K-MV-LVD

Luminaire Data

CCT & CRI	5000K, 80CRI minimum
Initial Delivered Lumens	24,660
Wattage	180.6W
Efficacy	136.5
Beam Angle	50% = 103° 10% = 160°
Spacing	0° = 1.22 90° = 1.22

Photometric values based on tests performed in compliance with LM-63 & LM-79

Indoor Candela Plot
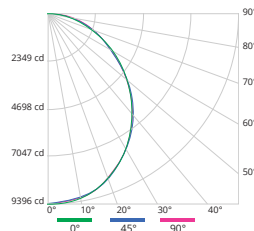
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	7149	29.0%
0-40	11545	46.8%
0-60	19759	80.1%
0-90	24638	99.9%
0-180	24660	100.0%