

E5H ECONO LED LINEAR HIGH BAY LUMINAIRE

MULTI-VOLTAGE (120-347 V)

Aimlite's economic E5H Linear High Bay with optional integrated sensor, is ideally suited for high ceiling warehouses as well as arenas where uniform and efficient lighting is required.



FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- White powder coated 22 gauge slim, lightweight steel housing.
- Well ventilated driver compartment for optimal thermal management.
- Frosted PMMA lens over LEDs provides a diffused light distribution.
- 6' power cable standard in all configurations.

Mounting

- Surface, suspended or pendant (see accessories).
- V-Hooks for dual point chain (standard for all configurations). Set of 2 V-Hooks and chains are provided with all configurations. Other mounting options are available, please consult accessory table.

PERFORMANCE DATA

- Available in both 4 000 and 5 000 K color temperatures
- 80+ CRI for true color accuracy
- Electrical ratings: 120-347 V
- Estimated life of over 54 000 hours to L70
- 0-10 V dimming driver. Dimming cables not included with the fixture
- 2.0 kV surge protection
- Operating Temperature: -20 °C to 50 °C [-4 °F to 122 °F]
- Ambient Temperature: -20°C to 50°C [-4°F to 122°F]

COMPLIANCES

- cULus listed for damp locations
- Meet requirements of ICES-005 (A), Issue 5 for class A products
- Complies with FCC Part 15, Class A, Sub Part B
- UL1598, UL8750
- CSA 22.2 250.0, CSA 22.2 250.13

OVERVIEW			
LIGHT SOURCE	LED	EFFICIENCY (LM/W)	≥135
WATTS [W]	85, 130, 170, 210, 255, 300, 400	COLOR TEMPERATURE [K]	4 000, 5 000
LUMEN OUTPUT [LM]	11 475 - 54 000	CRI	80+

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

QUICK SHIP ORDERING GUIDE



PART NUMBER	DLC UNIQUE ID	WATTS [W]	VOLTS [VAC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ²	EFFICACY [LM/W]	CRI	LIFE L70 [HRS] ³	TESTED HOURS LM-80 [HRS] ³	POWER FACTOR	THD [%]
24"											
E5H-24LA1-32/40K	PRF0JFAR	85	120-347	4 000	11 475	135	80+	>54 000	9 000	0.9	10
E5H-24LA2-32/40K	PFF5WM84	130	120-347	4 000	17 550	135	80+	>54 000	9 000	0.9	10
E5H-24LA2-32/50K	P2S4BSGH	130	120-347	5 000	17 680	136	80+	>54 000	9 000	0.9	10
E5H-24LA3-32/40K	PR51MAAZ	170	120-347	4 000	22 950	135	80+	>54 000	9 000	0.9	10
E5H-24LA3-32/50K	PJGPNN6M	170	120-347	5 000	23 120	136	80+	>54 000	9 000	0.9	10
E5H-24LA4-32/40K	PNFBUK50	210	120-347	4 000	28 350	135	80+	>54 000	9 000	0.9	10
E5H-24LA4-32/50K	P30VHPNA	210	120-347	5 000	28 560	136	80+	>54 000	9 000	0.9	10
48"											
E5H-48LA1-32/50K	PVIWW117	255	120-347	5 000	34 425	135	80+	>54 000	9 000	0.9	10
E5H-48LA2-32/40K	P4VDK9VG	300	120-347	4 000	40 723	136	80+	>54 000	9 000	0.9	10
E5H-48LA2-32/50K	PL7LMV99	300	120-347	5 000	41 140	137	80+	>54 000	9 000	0.9	10
E5H-48LA3-32/50K	PQ7YYVJX	400	120-347	5 000	53 607	134	80+	>54 000	9 000	0.9	10

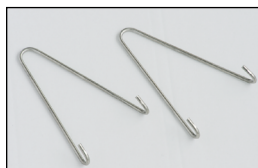
¹Typical color temperature range: +/- 5 %.

²Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

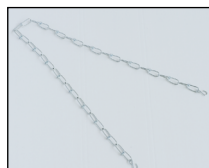
³Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolations.

INCLUDED IN THE BOX

V-Hooks



Chain Kits



ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	TYPE	COMPATIBLE WITH
BKT846	SURFACE MOUNT BRACKET (SET OF 2)	ALL CONFIGURATIONS
BKT847	CONDUIT MOUNT KIT	ALL CONFIGURATIONS
WGD911-2FT	WIREGUARD 2FT/4L	E5H-24LA1-32/40K, E5H-24LA2-32/40K, E5H-24LA2-32/50K, E5H-24LA3-32/40K, E5H-24LA3-32/50K
WGD911-2FT-W	WIREGUARD 2FT/6L	E5H-24LA4-32/40K, E5H-24LA4-32/50K
WGD911-4FT	WIREGUARD 4FT/4L	E5H-48LA1-32/50K
WGD911-4FT-W	WIREGUARD 4FT/6L	E5H-48LA2-32/40K, E5H-48LA2-32/50K, E5H-48LA3-32/50K
KITOSI-EFS06R ¹	EXTERNAL HIGH FREQUENCY SENSOR KIT EFS06R	ALL CONFIGURATIONS
OSI-IFS05R-HBL1 ²	EXTERNAL PIR SENSOR KIT IFS05R-HBL1	ALL CONFIGURATIONS
OSI-RM51	REMOTE CONTROL RM51 FOR MOTION SENSORS	KITOSI-EFS06R, OSI-IFS05R-HBL1

¹ To change factory settings, purchase remote (sold separately).

² The settings can be either changed by switches, or by a remote (sold separately).

COMPATIBLE DIMMERS¹

BRAND	MODEL NUMBER			
	24" [LS1, LS2, LS3]	24" [LS4]	48" [LS1]	48" [LS2, LS3]
LUTRON	NTSTV-DV, NDTV, DDTV ²	NTSTV-DV, NDTV, DDTV	NTSTV-DV, NDTV, DDTV ²	NTSTV-DV, NDTV, DDTV
LEVITON	IP710, DS710	IP710, DS710	IP710, DS710	IP710, DS710
LEGRAND	RH4FBL3PW	RH4FBL3PW	RH4FBL3PW	RH4FBL3PW

Dimming range: 10%-100%

¹ This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. AimLite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

² Dim to OFF not available with DDTV for 24" [LS1, LS2, LS3] and 48" [LS1].

OCCUPANCY SENSORS

BI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] %

PART NO	POSITION	VOLTS [V]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	INITIAL BRIGHTNESS [%]	SENSITIVITY [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	REMOTE*	LOCATION**
KITOSI-EFS06R	EXTERNAL	120-347 [12 V DC]	HIGH FREQUENCY	40 [MAX]	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	INFINITE	OSI-RM51	DRY AND WET, -30 TO +40
OSI-IFS05R-HBL1	EXTERNAL	120-347 [12-32 V DC]	PIR	40 [MAX]	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	INFINITE	OSI-RM51	DRY AND WET, -30 TO +40

Default settings: Brightness: 100%, hold time: 5min, stand-by dim: 50%, stand-by time: 30min, photocell: off, sensitivity: 100%

TRI-LEVEL SENSORS

Detection - ON at [Detection Area] % during [Hold Time] min, then [Stand-by Dim level] % during [Stand-by time] min, then OFF

PART NO	POSITION	VOLTS [V]	TECHNOLOGY	HEIGHT [FT]	DETECTION AREA [%]	INITIAL BRIGHTNESS [%]	SENSITIVITY [%]	HOLD TIME [MIN]	STAND-BY DIM LEVEL [%]	STAND-BY PERIOD [MIN]	REMOTE*	LOCATION**
KITOSI-EFS06R	EXTERNAL	120-347 [12 V DC]	HIGH FREQUENCY	40 [MAX]	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	10S, 5MIN, 15MIN, 30MIN, 60MIN	OSI-RM51	DRY AND WET, -30 TO +40
OSI-IFS05R-HBL1	EXTERNAL	120-347 [12-32 V DC]	PIR	40 [MAX]	100	50, 75, 100	0 (OFF), 50 (LOW), 100 (HIGH)	30S, 5MIN, 15MIN, 30MIN	0, 10, 30, 50	10S, 5MIN, 15MIN, 30MIN, 60MIN	OSI-RM51	DRY AND WET, -30 TO +40

Default settings: Brightness: 100%, hold time: 5min, stand-by dim: 50%, stand-by time: 30min, photocell: off, sensitivity: 100%

* To be ordered separately.

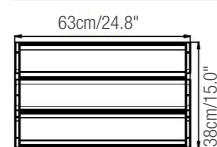
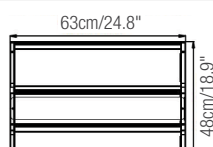
** Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.

For more settings visit

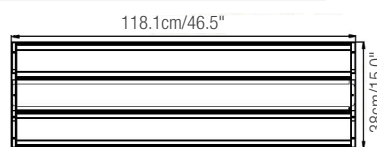
www.aimlite.com/documentation/technical-information/

WEIGHT AND DIMENSIONS

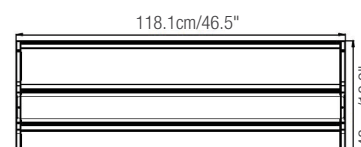
	24"	24" WIDE	48"	48" WIDE
LENGTH [cm/in]	63/24.8	63/24.8	118.1/46.5	118.1/46.5
WIDTH [cm/in]	38/15.0	48/18.9	38/15.0	48/18.9
THICKNESS [cm/in]	5.59/2.2	5.59/2.2	5.59/2.2	5.59/2.2
WEIGHT [lbs]	10.4	11.2	17.9	19.8

Wattage Range: 65-170W
Dimensions: cm/in

Wattage Range: 210W



Wattage Range: 255W

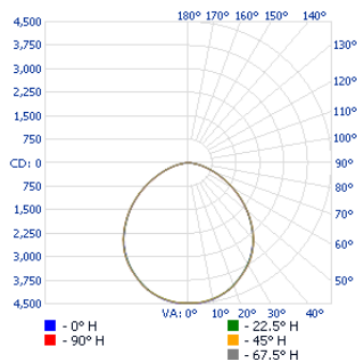


Wattage Range: 300-400W

PHOTOMETRIC DATA¹

E5H-24LA1-32/40K • 11 607.6 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	3 467.9	29.9%
0-40	5 644.7	48.6%
0-60	9 624.3	82.9%
60-90	1 983.3	17.1%
0-90	11 607.6	100%

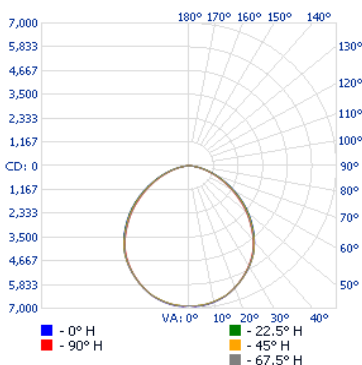
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	1 547	4.4'	4.4'
3.3'	411	8.5'	8.5'
5.0'	179	12.9'	12.9'
6.7'	99.6	17.3'	17.2'
8.3'	64.9	21.5'	21.3'
10.0'	44.7	25.9'	25.7'

■ Vert. Spread: 104.6° ■ Hor. Spread: 104.3°

E5H-24LA2-32/40K • 17 510.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	5 302.7	30.3%
0-40	8 601.3	49.1%
0-60	14 559.2	83.1%
60-90	2 951.5	16.9%
0-90	17 510.7	100%

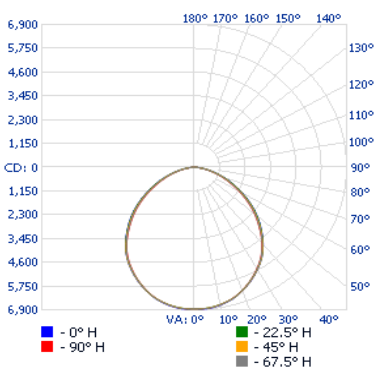
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	2 377	4.4'	4.2'
3.3'	631	8.5'	8.1'
5.0'	275	12.9'	12.3'
6.7'	153	17.2'	16.5'
8.3'	99.7	21.3'	20.4'
10.0'	68.7	25.7'	24.6'

■ Vert. Spread: 104.2° ■ Hor. Spread: 101.9°

E5H-24LA2-32/50K • 17 634.1 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	5 294.6	30%
0-40	8 601.6	48.8%
0-60	14 610.2	82.9%
60-90	3 023.8	17.1%
0-90	17 634.1	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	2 366	4.4'	4.2'
3.3'	628	8.6'	8.2'
5.0'	274	13.0'	12.5'
6.7'	152	17.5'	16.7'
8.3'	99.3	21.7'	20.7'
10.0'	68.4	26.1'	25.0'

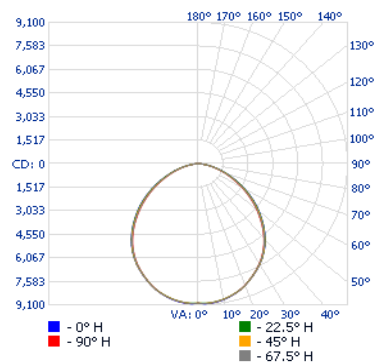
■ Vert. Spread: 105.1° ■ Hor. Spread: 102.6°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

E5H-24LA3-32/40K • 23 024.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	6 949.7	30.2%
0-40	11 276.6	49%
0-60	19 114.3	83%
60-90	3 910.4	17%
0-90	23 024.7	100%

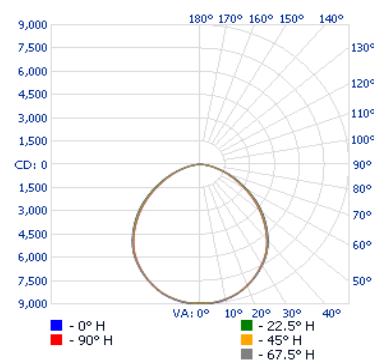
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	3 113	4.4'	4.2'
3.3'	826	8.5'	8.2'
5.0'	360	12.9'	12.4'
6.7'	200	17.3'	16.6'
8.3'	131	21.4'	20.5'
10.0'	90.0	25.8'	24.7'

■ Vert. Spread: 104.5° ■ Hor. Spread: 102.0°

E5H-24LA3-32/50K • 23 111.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	6 934.0	30%
0-40	11 281.4	48.8%
0-60	19 185.4	83%
60-90	3 925.6	17%
0-90	23 111.0	100%

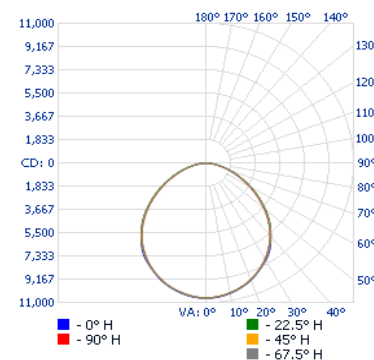
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	3 094	4.5'	4.3'
3.3'	821	8.7'	8.3'
5.0'	358	13.2'	12.6'
6.7'	199	17.6'	16.9'
8.3'	130	21.8'	20.9'
10.0'	89.4	26.3'	25.2'

■ Vert. Spread: 105.5° ■ Hor. Spread: 103.0°

E5H-24LA4-32/40K • 27 456.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	8 162.6	29.7%
0-40	13 287.3	48.4%
0-60	22 714.4	82.7%
60-90	4 742.0	17.3%
0-90	27 456.3	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	3 683	4.4'	4.3'
3.3'	977	8.6'	8.4'
5.0'	426	13.0'	12.7'
6.7'	237	17.4'	17.0'
8.3'	154	21.6'	21.1'
10.0'	106	26.0'	25.4'

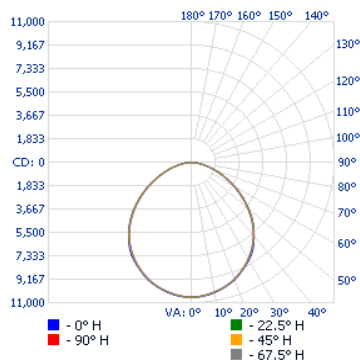
■ Vert. Spread: 104.9° ■ Hor. Spread: 103.7°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

E5H-24LA4-32/50K • 27 419.9 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	8 115.2	29.6%
0-40	13 228.5	48.2%
0-60	22 668.5	82.7%
60-90	4 751.4	17.3%
0-90	27 419.9	100%

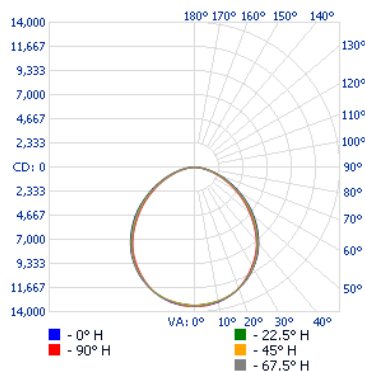
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	3 655	4.5'	4.4'
3.3'	970	8.7'	8.5'
5.0'	422	13.1'	12.9'
6.7'	235	17.6'	17.3'
8.3'	153	21.8'	21.4'
10.0'	106	26.3'	25.8'

■ Vert. Spread: 105.5° ■ Hor. Spread: 104.4°

E5H-48LA1-32/50K • 34 937.5 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	10 388.3	29.7%
0-40	16 884.7	48.3%
0-60	28 785.9	82.4%
60-90	6 151.6	17.6%
0-90	34 937.5	100%

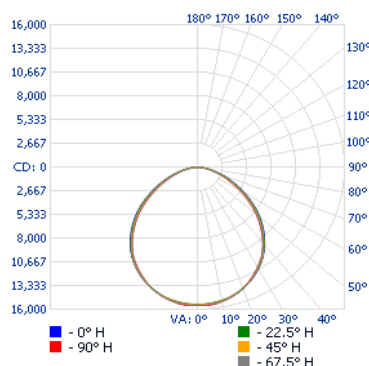
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	4 638	4.5'	4.2'
3.3'	1 231	8.8'	8.2'
5.0'	536	13.4'	12.4'
6.7'	299	17.9'	16.6'
8.3'	195	22.2'	20.6'
10.0'	134	26.7'	24.8'

■ Vert. Spread: 106.4° ■ Hor. Spread: 102.3°

E5H-48LA2-32/40K • 40 723.4 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	12 095.3	29.7%
0-40	19 765.4	48.5%
0-60	33 876.0	83.2%
60-90	6 847.4	16.8%
0-90	40 723.4	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	5 357	4.7'	4.4'
3.3'	1 422	9.0'	8.5'
5.0'	619	13.7'	12.8'
6.7'	345	18.3'	17.2'
8.3'	225	22.7'	21.3'
10.0'	155	27.4'	25.7'

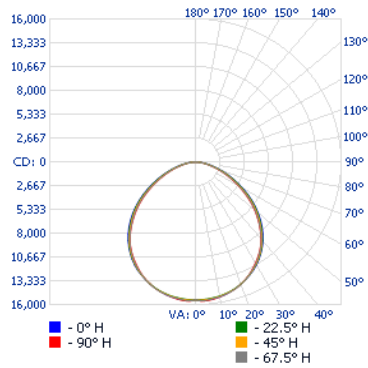
■ Vert. Spread: 107.7° ■ Hor. Spread: 104.2°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

E5H-48LA2-32/50K • 41 140.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	12 153.7	29.5%
0-40	19 893.3	48.4%
0-60	34 194.4	83.1%
60-90	6 945.8	16.9%
0-90	41 140.3	100%

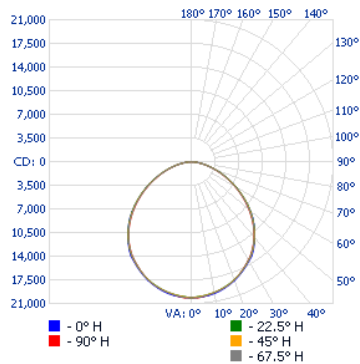
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	5 369	4.7'	4.4'
3.3'	1 425	9.1'	8.6'
5.0'	621	13.8'	13.0'
6.7'	346	18.5'	17.4'
8.3'	225	23.0'	21.6'
10.0'	155	27.7'	26.0'

■ Vert. Spread: 108.3° ■ Hor. Spread: 104.9°

E5H-48LA3-32/50K • 53 606.6 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	15 538.7	29%
0-40	25 438.4	47.5%
0-60	43 982.5	82%
60-90	9 624.1	18%
0-90	53 606.6	100%

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
1.7'	6 974	4.6'	4.5'
3.3'	1 851	8.9'	8.8'
5.0'	806	13.5'	13.3'
6.7'	449	18.2'	17.8'
8.3'	293	22.5'	22.1'
10.0'	202	27.1'	26.6'

■ Vert. Spread: 107.1° ■ Hor. Spread: 106.2°

¹ Complete IES files available on our website.