emLITE

| PROJECT: |
| TYPE: |
| CATALOG #: |

OVERVIEW

Series AHB is a group of adjustable LED high bay with rotatable panels allowing user to rotate panels to direct light. The optional factory-installed Signtex Emergency Lighting Control option ensures full emergency code compliance at the lowest possible cost.
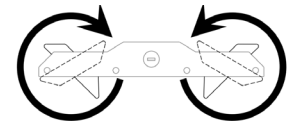
SPECIAL FEATURES

- **Emergency lighting from 1,400 Lm to 5,600 Lm with adjustable Emergency Lighting Control (ELC), powered from a Signtex low-voltage central battery system. See Page 3 for details.**
- Available with factory-installed UL Listed Emergency Lighting Control (ELC), for connection to a Signtex central battery, DC emergency power system.
- ELC models are available with 480VAC input option
- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 174,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- Delivers from 15 to 30,000 lumens (140 lumens per watt, LPW)
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10vdc dimming drivers are standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Painted steel housing and PMMA (polymethyl methacrylate) frosted lenses are standard.
- Easy installation in new construction or retrofit.
- Optics rotate up to 150°.
- Chain-mount kits (includes v-hooks and ⅛" thick, 1-meter long chain) are standard.
- Options include wire-guard kits, pendant mount kits, and surface mount kits.

* Contact factory for other color temperatures and lumen packages.

** L70 hours are IES TM-21-11 calculated hours.

MOUNTING OPTIONS

- Chain mounting with V-hooks is standard.
- Optional pendant mounting kit (p/n LEDHB-PMK-S) provides pendant attachment to ½" rigid conduit.
- Optional surface mounting kit (p/n LEDHB-SMK-S) provides attachment to solid surfaces.

WARRANTY & LISTINGS

- cULus listed for damp locations in ambient temperatures from -40°C to 50°C (-40°F to 122°F).
- DLC premium.
- Complies with RoHS (Restriction on Hazardous Substances) requirements.
- Complies with FCC Part 15, class A.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Complies with IEC/EN61000-4-5, input transient protection (2.0kV).
- View Signtex Warranty for further details

Not compatible with 347-480V models or emergency drivers.

LED modules rotate up to 150°

FIXTURE ORDERING INFORMATION *EXAMPLE:* **AHB-110-15L-MV-4K-ELCP14P2**

AHB

SERIES	POWER WATTS	LUMENS[2]		VOLTAGE		COLOR TEMP		OPTIONS[1]	
AHB	110 170 220	15L 23L 30L	15000Lm 23000Lm 30000Lm	MV	120/277 VAC	4K 5K	4000K 5000K	ELCPXX EMXX/ECXX OS ODS WG SMKXX PMX	Emergency Lighting Control Emergency Driver Occupancy Sensor Passive Infared Occupancy Sensor Microwave Wire Guard Surface Mount Kit Pendant Mount Kit
								*"XX"= VARIES WITH FIXTURE SIZE AND POWER. SEE OPTIONS TABLE FOR COMPLETE PART NUMBER.	

[1] See Option Detail Tables

[2] Nominal vales. See Electrical Data for specific values.

Signtex Inc
LIGHTING
INTELLIGENT EMERGENCY LIGHTING SYSTEMS

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ELECTRICAL DATA

MODEL	COLOR TEMP.	CRI[1]	LUMINAIRE LUMENS	LUMINAIRE WATTS	LUMENS/ WATT	INPUT VOLTAGE[2]	INPUT CURRENT (A)			POWER FACTOR	THD[3]	L$_{70}$ HOURS[4]
							120V	240V	277V			
AHB-15L-4K	4000k	>80	15,297	109	140	120-277	1.17	0.58	0.51	>90%	<20%	174,000
AHB-15L-5K	5000k	>80	12,471	109	141	120-277	1.18	0.59	0.51	>90%	<20%	174,000
AHB-23L-4K	4000k	>80	22,970	139	139	120-277	1.16	0.58	0.50	>90%	<20%	174,000
AHB-23L-5K	5000k	>80	23,223	140	140	120-277	1.17	0.58	0.51	>90%	<20%	174,000
AHB-30L-4K	4000k	>80	30,394	217	140	120-277	1.17	0.58	0.51	>90%	<20%	174,000
AHB-30L-5K	5000k	>80	30,742	216	142	120-277	1.18	0.59	0.51	>90%	<20%	174,000

[1] Color rendering index.
[2] All 50-60Hz.
[3] Total harmonic distortion.
[4] L$_{70}$ refers to the number of hours at which lumen output declines to 70% of the initial level. L$_{70}$ hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

• IES Files and Zonal Lumen Summaries and Polar Diagrams

emLITE

Adjustable LED High Bay Series AHB

REV #: 09.21.01

OPTIONS

EMERGENCY LIGHTING CONTROLS (ELC) *For use with Central Battery Systems (purchased separately)*

MODEL	OPTION CODE				
	ELC10P2	ELC14P2	ELC15P4	ELC25P4	ELC40P4
	EM Lumens[1]	EM Lumens[2]	EM Lumens[1]	EM Lumens	EM Lumens[2]
AHB110	1400	1960	-	-	-
AHB170	-	-	2100	3500	5600
AHB220	-	-	2100	3500	5600

[1] Minimum [2] Maximum
Note: Lumen output is factory adjustable. Contact factory for specific values.
Learn more about ELC's on our website, www.signtexinc.com.

## Emergency Lighting with ELC

The following Point-to-Point sample shows typical performance in the medium power range for both fixture and ELC, based on IES files and using a light loss factor (LLF) calculated as follows:

LIGHT LOSS FACTOR = ELC Emergency Power (Watts)*/ Fixture Normal Power (Watts)
LLF = ELC Emergency Power* (Watts)   *Power value and ELC Type are given in the OPTION CODE above.
     Fixture Normal Power (Watts)   Example: ELC10P1 = 10 Watts Emergency Power for 90 mins: Package Type P1

The calculation is based on illumination values given in NFPA 101 and NEC 70, which stipulate an initial minimum average of 1 Fc at floor level, a minimum of 0.1 Fc at any point, and a uniformity ratio no higher than 40:1. NOTE, values are allowed to decrease 40% after 90 minutes, but ELC is a constant power device so emergency illumination does NOT decrease.
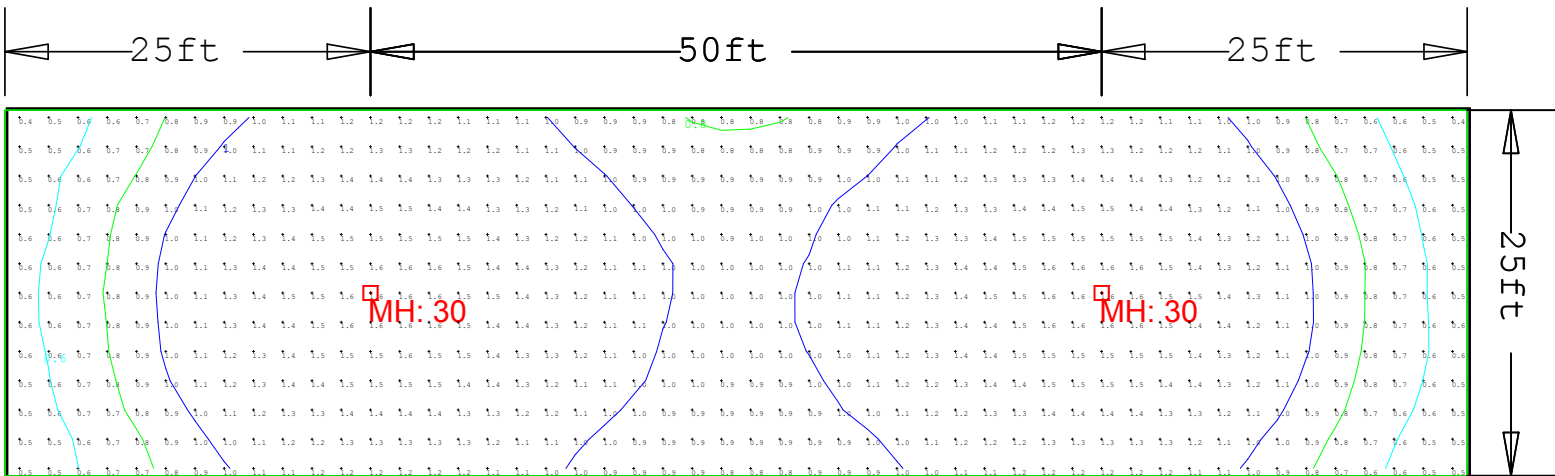
MODEL	ELC OPTION #	ELC POWER	EMERGENCY LUMENS	LLF	MOUNT HEIGHT	AVG. LUMENS ON PATHWAY	MAX/MIN UNIFORMITY
AHB170	ELC25P4	25 Watts	3446	0.15	30 FT.	1.08 Fc	4.00

3

EMERGENCY DRIVERS *With integral batteries*

MODEL	OPTION CODE[12]				
	EM8/EC8	**EM12/EC12**	**EM16/EC16**	**EM20/EC20**	**EM24/EC24**
	LUMENS	**LUMENS**	**LUMENS**	**LUMENS**	**LUMENS**
AHB110	700	1092	1498	1918	2380
AHB170	695	1084	1487	1904	2363
AHB220	700	1092	1498	1918	2380

[1] Emergency drivers available for 120/277VAC only [2] EC Drivers are California Emergency Commission (CEC) Listed

ACCESSORIES

Wire Guard

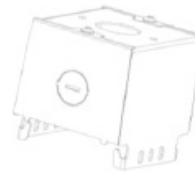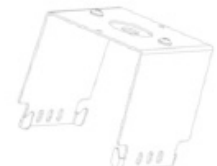WG24x4   =   Wire Guard Kit - 15L & 23L
WG24x5   =   Wire Guard Kit - 30L
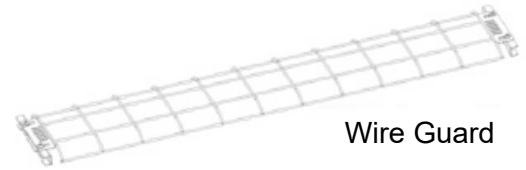
Mounting Options

PMKX   =   Pendant Mount Kit - All Models
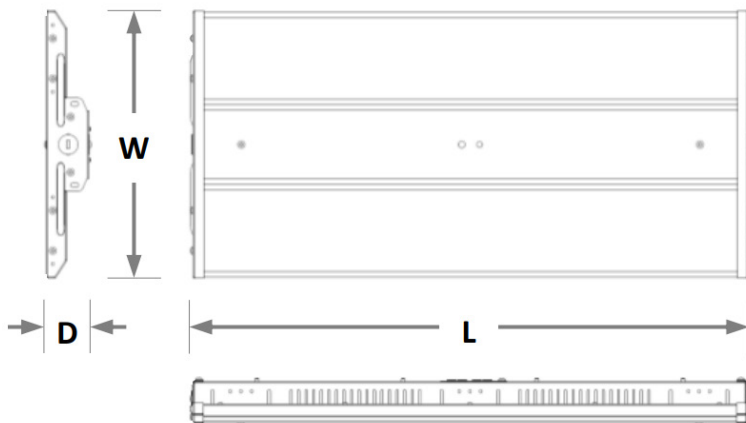SMKXX   =   Surface Mount Kit - All Models

Wire Guard

Pendant Mount Kit   Surface Mount Kit

DIMENSIONS

Model	Length (L)	Width (W)	Depth (D)	Weight
15L	26"	12"	2"	7.7 lbs.
23L	26"	12"	2"	9.0 lbs.
30L	26"	14"	2"	10.0 lbs.