

Project	
Notes	
Type	Date
Cat. No.	

SLB™ XE Series

Slim Linear LED High Bay

DESCRIPTION

The Aleo SLB™ XE G3 and SLB™ XE G3 ECO Series Slim Linear High Bay delivers industry-leading performance with an extremely attractive ROI. Superior performance, ultra high-efficacy and premium quality provides an economic solution for high ceiling applications, especially warehouse spaces. Delivering high output, quality light and low energy consumption can improve warehouse safety and productivity, lower maintenance cost, and reducing operating costs.



APPLICATIONS

Provides high output illumination for various commercial industrial applications with high ceilings: warehouse, manufacturing, gymnasiums, retail.

Specification Features



SLB XE Series

- 2' 90W, 135W, 162W, 178W, 215W
- 4' 225W, 275W, 320W

- Rated Life 75,000 hours
- Limited Warranty 7-years
- Efficacy Up to 131 LPW
- Continuous Dimming

Construction

Rugged and durable construction withstands warehouse environments. Luminaire features matte white durable finish.

Optical System

Reflector systems features highly reflective coating, delivering adequate light for high-mounting buildings. Diffuser lens reduces glare and improves occupant working conditions while maintaining high efficiency emission.

Certification

UL Listed. All components have UL certification. UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC Premium

Warranty

7-year Limited Warranty. See warranty documentation for more information.

Electrical

Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features continuous dimming. Universal voltage (120-277V) for convenient installation. Comes equipped with luminaire quick-disconnect.

Installation / Mounting

Various mounting options available, including suspension, pendant, and surface mount. V-hook hangers included. Chain Not Included

Controls / Dimming

Continuous dimming (0-10V) comes standard. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance.



Quick Ship

- SLB2-090/840/F XE G3 ECO
- SLB2-090/850/F XE G3 ECO
- SLB2-162/840/F XE G3 ECO
- SLB2-162/850/F XE G3 ECO
- SLB2-215/840/F XE G3 ECO
- SLB2-215/850/F XE G3 ECO
- SLB4-225/850/F XE G3
- SLB4-275/850/F XE G3

Ordering Information

Example: SLB2-162/850/F XE G3 ECO

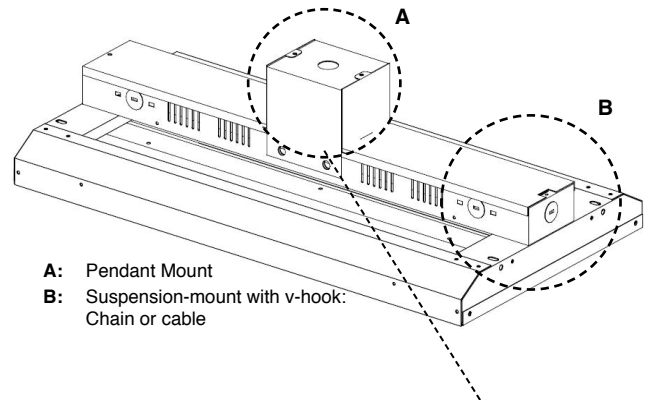
SLB	2	162	8	50	F	[Blank]	[Blank]	XE	ECO
Series	Form Factor	Nominal Wattage	CRI	Color Temp	Lens Diffuser	Input Voltage	Dimming	Generation	Form Factor
SLB	2 2'	2'	8 83+	40 4000K ¹	F Frosted	Blank	Blank	XE	Blank
Slim Linear High Bay	4 4'	090 90W		50 5000K		120V-277V	0-10V Continuous Dimming	Ultra High Efficacy	Standard Form
		162 162W				480 480V			ECO
		178 178W							Slim Form
		215 215W							
		4'							
		225 225W							
		275 275W							
		320 320W							
Options									
Emergency Backup			Controls			Accessories			
EM1400 1400lm			OS Occupancy Sensor			WG Wire Guard			
EM2000 2000lm			OSDL Occ. Sensor w/ Daylight			PMK Single-point Pendant-mount Kit			
EM2400 2400lm			OSDL/IR Multi-Level Occ Sensor w/ wireless config.			ACC Aircraft cable suspension kit			
						CRD Cord (see pg. 4 for details)			
						SP10 10K Surge Protector			

Specifications and Dimensions subject to change without notice.

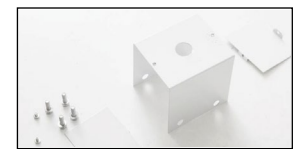
Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 130 LPW (typ.)
CRI	83+, R9 > 0
Available CCT ¹	4000K, 5000K
Color Consistency ²	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70 ³	> 72,000 hours or > 45,000
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 50°C

Mounting Information



- A: Pendant Mount
- B: Suspension-mount with v-hook:
Chain or cable



PMK Pendant-mount Kit (sold separately)

Performance Data

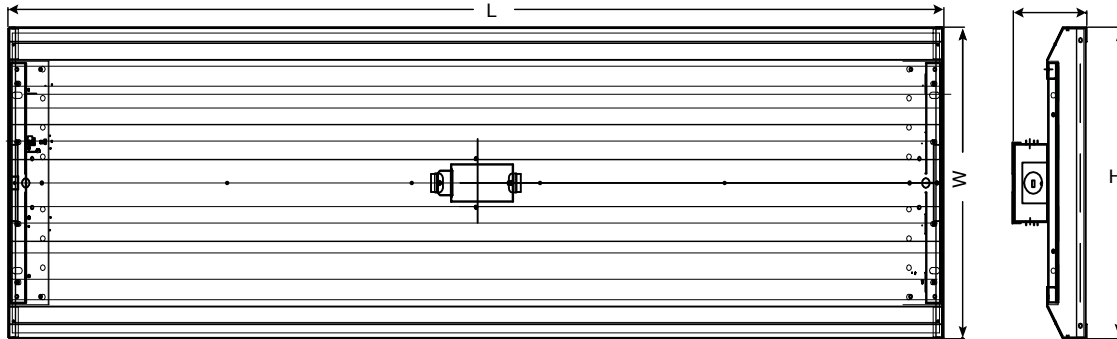
Lens Type	Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	4000K ¹		5000K	
					Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
Frosted Lens	2'	SLB2-090/8xx/F XE G3 ECO	90	87.2	11,700	130	11,790	131
		SLB2-135/850/F XE G3 ECO	135	131.2	-	-	17,685	131
		SLB2-162/8xx/F XE G3 ECO	162	158.7	21,060	130	21,222	131
		SLB2-178/850/F XE G3 ECO	178	173.8	-	-	23,318	131
		SLB2-215/8xx/F XE G3 ECO	215	210.9	27,950	130	28,165	131
	4'	SLB4-225/850/F XE G3	223	210	-	-	29,213	131
		SLB4-275/850/F XE G3	265	264	-	-	34,715	131
		SLB4-320/850/F XE G3	321	313	-	-	42,051	131

NOTES:

- ¹ Quick ship: 5000K and SLB2-090, SLB2-162, SLB2-215 are available in 4000K. Other CCTs may require a lead time or be special order
- ² Typical color consistency. May vary or be changed.
- ³ L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers.

Specifications and Dimensions subject to change without notice.

Product Dimensions



Model No.	L	W	H
SLB2-090/850/F XE G3 ECO	23.8" (605mm)	12.6" (320mm)	3.62" (92mm)
SLB2-135/850/F XE G3 ECO	23.8" (605mm)	12.6" (320mm)	3.62" (92mm)
SLB2-162/850/F XE G3 ECO	23.8" (605mm)	12.6" (320mm)	3.62" (92mm)
SLB2-178/850/F XE G3 ECO	23.8" (605mm)	12.6" (320mm)	3.62" (92mm)
SLB2-215/850/F XE G3 ECO	23.8" (605mm)	17.33" (440mm)	3.62" (92mm)
SLB4-225/850/F XE G3	45.9" (1166mm)	12.6" (320mm)	3.62" (92mm)
SLB4-275/850/F XE G3	45.9" (1166mm)	17.33" (440mm)	3.62" (92mm)
SLB4-320/850/F XE G3	45.9" (1166mm)	17.33" (440mm)	3.62" (92mm)

Accessory Options

**Mounting Accessories**

- PMK** Pendant-mount kit
- SMB** Surface-mount bracket
- VH** V-hook hangers
- CHS** Chain set (105mm)
- ACC** Aircraft Cable - 10' 1/16 cable toggle kit with grip lock

Controls

- OS** Occupancy Sensor (On/Off)
- OSDL** Multi-Level PIR Occ. Sensor with Daylight function
- OSDL/IR** Multi-Level PIR Occ Sensor with Daylight function and Wireless IR config.

Wire Guard

- WG** Wire Guard

When ordering separately:

- SLB-WG2-4L** Wire Guard for SLB2-090, SLB2-135, SLB2-162
- SLB-WG2-6L** Wire Guard for SLB2-215
- SLB-WG4-4L** Wire Guard for SLB4-225
- SLB-WG4-6L** Wire Guard for SLB4-275, SLB4-320

Cord Set

- CRD-A** SJTOW Cord 6' 18/3
- CRD-B** SJTOW Cord 10' 18/3
- CRD-C** SJTOW Cord 12' 18/3

Plug

- PLG-1** Straight plug, 120V, NEMA 5-15P
- PLG-2** Twist-lock, 120V, NEMA L5-15P
- PLG-3** Straight plug, 277V, NEMA 7-15P
- PLG-4** Twist-lock, 277V, NEMA L7-15P
- PLG-5** Twist-lock, 480V, NEMA L8-20P

Surge Protector

- SP10** 10kA Surge Protector

Control Pre-Commissioning*

Example: SLB2-165/850/F XE G3 ECO **OSDL/IR L2-10H-3L-10M-30M**

L2	10H	3L	10M	30M
Lens / Coverage	High Level	Low Level	Time Delay	Cut-Off
L2 8' height (60' dia.)	10H 100%	1L 10%	30S 30 sec.	#M 1-59 min.
L3 20' height (40' dia.)	9H 90%	2L 20%	#M 1-30 min.	#H 1-5 hrs.
L7 40' height (100' dia.)	8H 80%	3L 30%	# = enter no. of minutes from 1 to 30 min.	0 Disabled
	7H 70%	4L 40%		# = enter no. of minutes or hours
	6H 60%	5L 50%		
	5H 50%	6L 60%		
		7L 70%		



High Level When the sensor detects motion the dimming control output ramps up to the selected HIGH light level.

Low Level After the sensor stops detecting motion and the time delay expires the dimming control output fades down to the selected LOW light level.

Time Delay The selected time period that must elapse after the last time the sensor detects motion for the electric lights to fade to LOW mode

Cut-Off The time period that must elapse after the lights fade to LOW mode and the sensor detects no motion for the electric lights to turn OFF.

Ramp Up Time period for light level to increase from LOW to HIGH.

Fade Down Time period for light level to decrease from HIGH to LOW.

** Only Available for OSDL/IR

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
SLB2-090/840/F XE G3 ECO	PLEUGJBH31SA	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-090/850/F XE G3 ECO	PLOM64W4G8GC	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-095/850/F XE G3	PGR3B9E8	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-135/850/F XE G3 ECO	PL5K6M80CIRT	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-140/850/F XE G3	PL2POU1RC2DJ	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-162/840/F XE G3 ECO	PLJ4WB1075A5	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-162/850/F XE G3 ECO	PLLOZKBYGKJN	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-178/850/F XE G3 ECO	PLFRUTNJRBOJ	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-215/840/F XE G3 ECO	PLBQ5D8GPGDB	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-215/850/F XE G3 ECO	PLN0YNDV8BL1	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-180/850/F XE G3	PL2F5N56REWL	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-225/850/F XE G3	PP1FRHYZ	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-275/850/F XE G3	PLE1A6RDPJ7R	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-320/850/F XE G3	P8DKTXU6	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

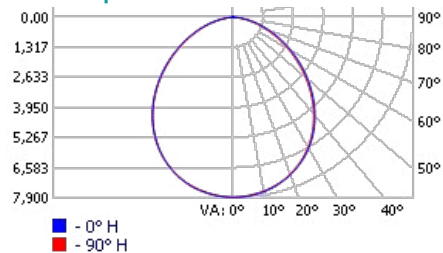


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Photometric Data

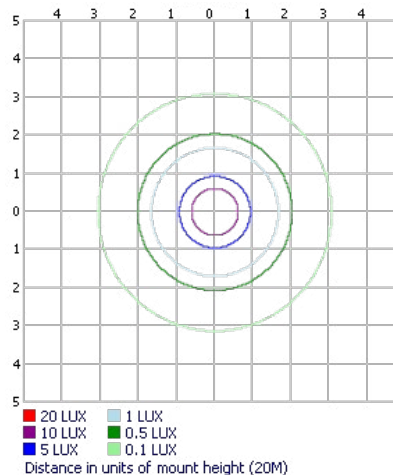
SLB2-162/850/F XE G3 ECO Tested in accordance to IESNA LM-79

Polar Graph



Zonal Lumen Summary

ZONE	LUMENS	% LUMINAIRE
0-30	6,095.3	29.7%
0-40	9,900.9	48.3%
0-60	16,837.6	82.2%
60-90	3,573.4	17.4%
70-100	1,392.5	6.8%
90-120	24.1	0.1%
0-90	20,411.0	99.6%
90-180	84.1	0.4%
0-180	20,495.2	100%

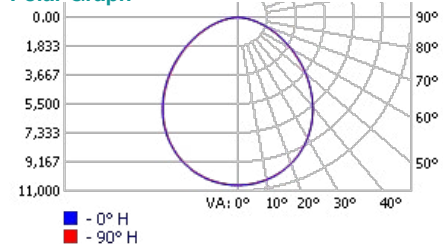


Illuminance at a Distance - Max. 30 ft.

HEIGHT(FT)	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
6.00	218.69 FC	15.2	15.6	53.3	56.6
12.00	54.67 FC	30.4	31.2	106.7	113.1
18.00	24.30 FC	45.7	46.7	160.0	169.7
24.00	13.67 FC	60.9	62.3	213.3	226.3
30.00	8.75 FC	76.1	77.9	266.6	282.8
		BEAM ANGLE		FIELD ANGLE	
		103.5°	104.8°	154.6°	156.0°

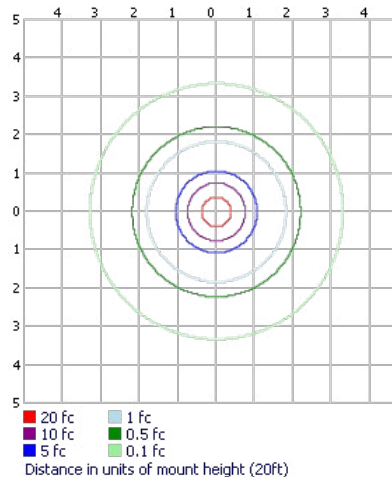
SLB2-215/850/F XE G3 ECO Tested in accordance to IESNA LM-79

Polar Graph



Zonal Lumen Summary

ZONE	LUMENS	% LUMINAIRE
0-30	8,217.1	29.9%
0-40	13,324.0	48.5%
0-60	22,597.8	82.3%
60-90	4,796.7	17.5%
70-100	1,872.9	6.8%
90-120	24.2	0.1%
0-90	27,394.6	99.7%
90-180	73.6	0.3%
0-180	27,468.2	100%



Illuminance at a Distance - Max. 30 ft.

HEIGHT(FT)	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
6.00	295.57 LUX	15.1	15.3	53.7	55.8
12.00	73.89 LUX	30.2	30.6	107.3	111.6
18.00	32.84 LUX	45.3	46.0	161.0	167.4
24.00	18.47 LUX	60.4	61.3	214.6	223.2
30.00	11.82 LUX	75.5	76.6	268.3	279.0
		BEAM ANGLE		FIELD ANGLE	
		103.0°	103.9°	154.8°	155.7°

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