

Project	
Notes	
Type	Date
Cat. No.	

## SLB™ Series

## Slim Linear LED High Bay

### DESCRIPTION

The Aleo SLB™ 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

#### 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 and chain accessories available.

#### 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.



### SLB Series

2' 110W, 160W  
4' 220W, 320W



Rated Life 75,000 hours  
Limited Warranty 7-years  
Efficacy Up to 127 LPW  
Continuous Dimming



### Quick Ship

SLB2-110/850/F  
SLB2-160/850/F  
SLB4-220/850/F

## Ordering Information

Example: SLB2-110/850/F

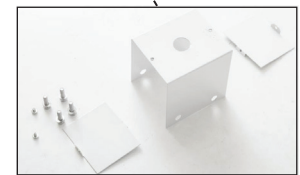
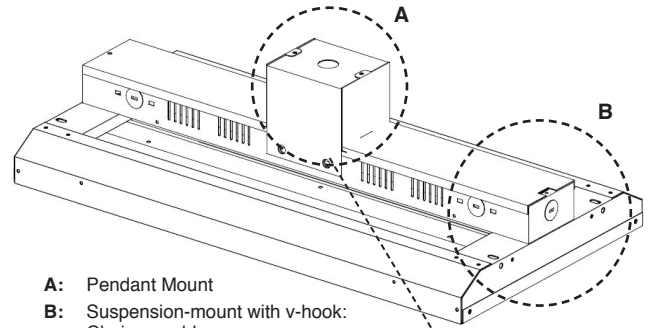
SLB	2	110	8	50	F	[Blank]	[Blank]
<b>Series</b>	<b>Form Factor</b>	<b>Rated Wattage</b>	<b>CRI</b>	<b>Color Temp</b>	<b>Lens Difuser</b>	<b>Input Voltage</b>	<b>Dimming</b>
SLB Slim Linear High Bay	2 2' 4 4'	2' 110 110W 160 160W 4' 220 220W 320 320W	8 83+	50 5000K 40 4000K 57 5700K	F Frosted C Clear	Blank 120V-277V 480 480V	Blank 0-10V Continuous Dimming
<b>Options</b>							
<b>Emergency Backup</b>		<b>Controls</b>		<b>Accessories</b>			
EM700 700lm EM1400 1400lm EM2000 2000lm		OS Occupancy Sensor OSDL Occ. Sensor w/ Daylight		WG Wire Guard PMK Single-point Pendant-mount Kit ACC Aircraft cable suspension kit CRD Cord (see pg. 4 for details)			

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	> 120 LPW (typ.)
CRI	83+, R9 > 0
Available CCT <sup>1</sup>	4000K, 5000K, 5700K
Color Consistency <sup>2</sup>	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70 <sup>3</sup>	> 72,000 hours or > 45,000
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)

Mounting Information



**PMK** Pendant-mount Kit (sold separately)

Performance Data

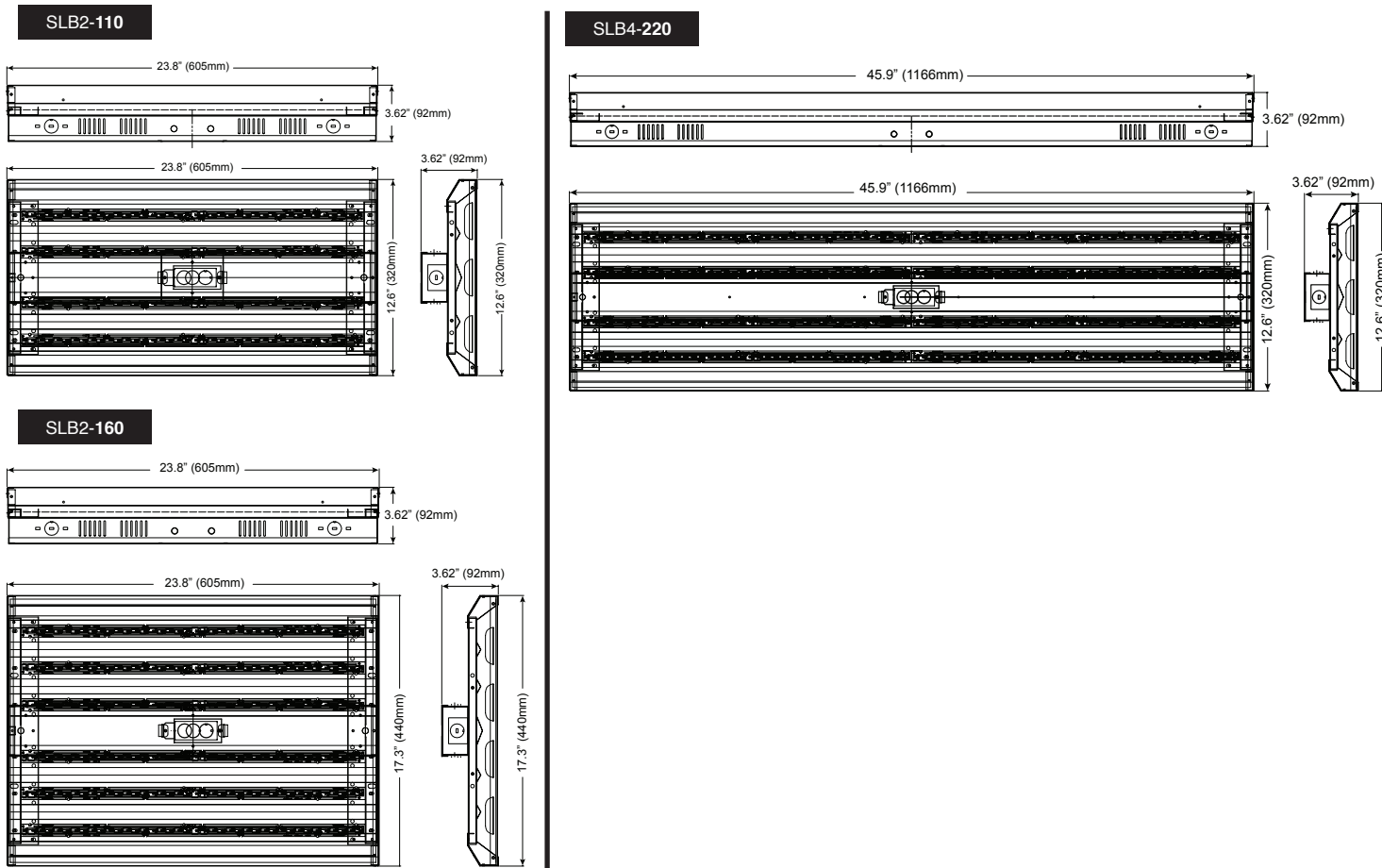
Lens Type	Form Factor	Catalog No.	Rated Wattage (W)	4000K		5000K		5700K	
				Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
Clear Lens	2'	SLB2-110/C	110	13,811	126	14,080	128	14,489	132
		SLB2-160/C	160	19,943	125	20,000	125	20,734	130
	4'	SLB4-220/C	220	27,349	124	27,764	126	29,235	133
		SLB4-320/C	320	40,342	126	40,960	128	41,845	131
Frosted Lens	2'	SLB2-110/F	110	13,061	119	13,750	125	13,949	127
		SLB2-160/F	160	19,246	120	19,280	121	19,458	122
	4'	SLB4-220/F	220	26,665	121	26,802	125	26,939	122
		SLB4-320/F	320	39,360	123	39,518	124	39,675	124

NOTES:

- <sup>1</sup> Quick ship: 4000K. Other CCTs may require a lead time or be special order
- <sup>2</sup> Typical color consistency. May vary or be changed.
- <sup>3</sup> L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers. Contact manufacturer for detailed information

Specifications and Dimensions subject to change without notice.

Product Dimensions



Control Pre-Commissioning

Example: LLS-4L/840-OSDL L2-10H-3L-10M-30M-5S-30S

L2	10H	3L	10M	30M	5S	30S
<b>Lens / Coverage</b>	<b>High Level</b>	<b>Low Level</b>	<b>Time Delay</b>	<b>Cut-Off</b>	<b>Ramp Up</b>	<b>Fade Down</b>
L2 8' height (48' dia.)	10H 100%	1L 10%	30S 30 sec. #M 1-30 min.	#M 1-59 min. #H 1-5 hrs. 0 Disabled	#S 1-60 sec. 0 Disabled	#S 1-60 sec. 0 Disabled
L3 20' height (40' dia.)	8H 80%	2L 20%	# = enter no. of minutes from 1 to 30 min.	# = enter no. of minutes or hours		
L4 40' height (60' dia.)	7H 70%	3L 30%				
L7 40' height (100' dia.)	6H 60%	4L 40%				
	5H 50%	5L 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.

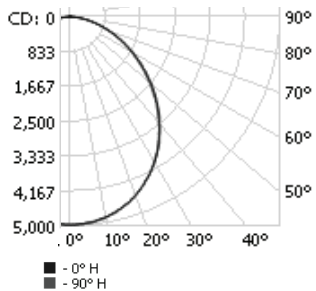
**Fade Down** Time period for light level to decrease from HIGH to LOW.

Specifications and Dimensions subject to change without notice.

## Photometric Data

SLB2-110/840/F 12,454 delivered lumens, tested in accordance to IESNA LM-79

## Polar Graph



## Zonal Lumen Summary

ZONE	LUMENS	% LUMINAIRE
0-30	3,782.1	30.40%
0-40	6,076.9	49%
0-60	10,199.7	81.90%
60-90	2,229.6	17.90%
70-100	906.4	7.30%
90-120	10.2	0%
0-90	12,429.3	100%
90-180	24.8	0%
0-180	12,454.1	100%

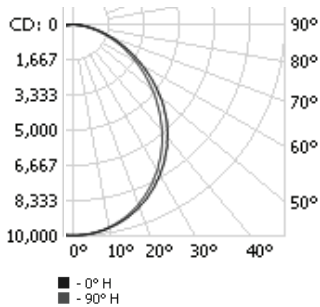
## Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC%	80				70				50	
	70	50	30	0	70	50	30	0	50	30
RCR										
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1	1.11	1.11
1	1.09	1.05	1.01	0.97	1.07	1.02	0.99	0.86	0.98	0.95
2	1	0.92	0.85	0.8	0.97	0.9	0.84	0.73	0.86	0.81
3	0.91	0.81	0.73	0.67	0.89	0.8	0.72	0.62	0.77	0.7
4	0.84	0.72	0.64	0.57	0.82	0.71	0.63	0.54	0.68	0.62
5	0.77	0.65	0.56	0.5	0.75	0.64	0.55	0.47	0.62	0.54
6	0.72	0.59	0.5	0.44	0.7	0.58	0.49	0.42	0.56	0.48
7	0.66	0.53	0.45	0.39	0.65	0.52	0.44	0.38	0.51	0.44
8	0.62	0.49	0.4	0.35	0.6	0.48	0.4	0.34	0.47	0.39
9	0.58	0.45	0.37	0.31	0.57	0.44	0.36	0.31	0.43	0.36
10	0.54	0.41	0.34	0.28	0.53	0.41	0.33	0.28	0.4	0.33

SLB4-220/840/F 25,162 delivered lumens, tested in accordance to IESNA LM-79

## Polar Graph



## Zonal Lumen Summary

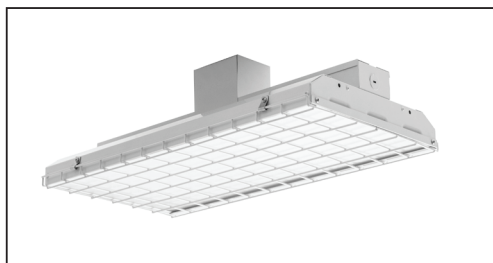
ZONE	LUMENS	% LUMINAIRE
0-30	7,581	30.10%
0-40	12,204	49%
0-60	20,548	81.70%
60-90	4,586	18.20%
70-100	1,907	7.60%
90-120	19	0%
0-90	25,134	100%
90-180	29	0%
0-180	25,162	100%

## Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC%	80				70				50	
	70	50	30	0	70	50	30	0	50	30
RCR										
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1	1.11	1.11
1	1.09	1.05	1.01	0.97	1.06	1.02	0.99	0.85	0.98	0.95
2	1	0.92	0.85	0.8	0.97	0.9	0.84	0.73	0.86	0.81
3	0.91	0.81	0.73	0.67	0.89	0.79	0.72	0.62	0.76	0.7
4	0.84	0.72	0.64	0.57	0.81	0.71	0.63	0.54	0.68	0.61
5	0.77	0.65	0.56	0.49	0.75	0.64	0.55	0.47	0.61	0.54
6	0.71	0.58	0.5	0.43	0.7	0.57	0.49	0.42	0.56	0.48
7	0.66	0.53	0.44	0.38	0.65	0.52	0.44	0.37	0.51	0.43
8	0.62	0.49	0.4	0.34	0.6	0.48	0.4	0.34	0.47	0.39
9	0.58	0.45	0.37	0.31	0.56	0.44	0.36	0.3	0.43	0.36
10	0.54	0.41	0.33	0.28	0.53	0.41	0.33	0.28	0.4	0.33

## 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

## Wire Guard

- WG** Wire Guard

When ordering separately:

- SLB-WG2-4L** Wire Guard for SLB2-110
- SLB-WG2-6L** Wire Guard for SLB2-160
- SLB-WG4-4L** Wire Guard for SLB4-220
- SLB-WG4-6L** Wire Guard for 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
- PLG-2** Twist-lock, 120V
- PLG-3** Straight plug, 277V
- PLG-4** Twist-lock, 277V
- PLG-5** Twist-lock, 480V

**aleo**™  
LED LIGHTING

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