



# 16" Low/Mid/High Bay 13800 Lm

Decorative Arms & Tier



## PRX16LX & ALX16LX

### APPLICATION

16" Lumen Max LX series performance pendant for low, mid-bay and high-bay applications. Prismatic refractor provides horizontal and vertical distribution. Aluminum reflector designed for maximum downlight. Decorative support arms and lower parts add visual appeal.

### FEATURES

Extruded Fixture Housing (EXT) features a clean and modern design. Single-stage optical system for smooth light distribution. LED module and driver designed for ease of maintenance and replacement. Optional safety cable. Variety of optical lenses and mounting methods.

### FINISH

Multi-stage polyester powder-coat process applied on our dedicated paint lines. Variety of standard and custom finishes are available. All exposed materials are chromate pretreated to resist corrosion.

### ELECTRONICS

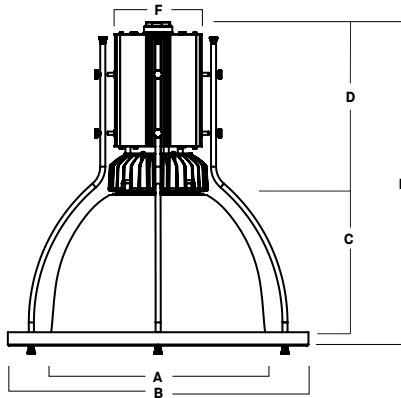
LED system features high brightness white Nichia LEDs. 3-step MacAdam Ellipse binning. Standard CRI: 80+. Higher CRI, R9 and custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers. LED module is 2 circuit with 2 drivers for multicircuit option.

### CONSTRUCTION

Extruded and machined 6063-T5 aluminum housing. Graphite gasket for optimal thermal management. Die-cast aluminum heat sink. Refractor made of cast UV stabilized acrylic. Reflector made of spun .060" aluminum. Arms are chrome plated, formed steel tubing. 1MR option is spun aluminum.

### CODE COMPLIANCE

BAA compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Manufactured and tested to UL standards No. 1598/8750.



Dimensioned with PRISMATIC

SHADES	A	B	C	D	E	F
PRISMATIC	16.2 411.5 mm	22.0 558.8 mm	13.7 348.0 mm	8.3 210.8 mm	23.3 591.8 mm	6.5 165.1 mm
ALUMINUM	16.2 411.5 mm	22.0 558.8 mm	11.3 287.0 mm	11.6 294.6 mm	23.1 586.7 mm	6.5 165.1 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
PRX16LX65L	7386	52	142
PRX16LX100L	10510	80	131
PRX16LX130L	13204	98	135
PRX16LX140L	13815	107	129

<sup>1</sup> Nominal Delivered Lumens at 35K with PR16-1MR

SERIES	LUMENS <sup>1</sup>	CCT	DRIVER / DIMMING <sup>2</sup>	SAFETY OPTIONS <sup>3</sup>	MOUNTING <sup>4</sup>	SHADE	ENCLOSURE OPTIONS	TIER OPTIONS	OPTIONS	FINISH <sup>11</sup>	MOUNTING OPTION <sup>13</sup>
PRISMATIC PRX16LX	65L 7400 Lm 100L 10500 Lm 130L 13200 Lm 140L 13800 Lm	27K 2700K 30K 3000K 35K 3500K 40K 4000K	EX Electronic Driver, 120V/277V DS10X 10%, 0-10V, 120V/277V DO10X 1%, 0-10V, 120V/277V DO103 1%, 0-10V, 347V	FS Fusing 2CIR 2 Circuit SCI Safety Cable	HM <sup>5</sup> Hang Straight PM <sup>6</sup> Rigid Pendant CD <sup>7</sup> Cord / Cable Mount HC <sup>8/9/7</sup> Hook & Cord NM2 <sup>8/7/8</sup> 1/2" NPT Hub NM3 <sup>8/7/8</sup> 3/4" NPT Hub	PRISMATIC DF16 16" Diffuse PR16 16" Clear OP16 16" Opal	TF3 6" Frosted Diffuser	CFG Center Frosted Glass Tier FGR Frosted Glass Ring 1MR <sup>10</sup> Single Metal Ring	SC2 Safety Cable Reflector to door	MW <sup>11</sup> Matte White MB <sup>11</sup> Matte Black PT <sup>11</sup> Platinum Silver CC Custom Color	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures
ALUMINUM ALX16LX					EM. BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	ALUMINUM AL16/MW <sup>11</sup> Matte White Inside AL16/FCI <sup>10</sup> Fixture Color Inside					

EXAMPLE: PRX16LX100L30KEX/HM36/PR16/1MR/PT

#### NOTES:

1 Nominal Delivered Lumens at 35K with PR16-1MR 2 Contact Factory for Additional Options 3 See Product Options Page For Details 4 See Mounting Page for Details on Components and Finishes 5 Specify Length in Inches: See Mounting Page for Available Lengths 6 Mounting Supplied by Others 7 Not Available with EMCR 8 12" Leads Unless Specified 9 Reflector Finished Matte White with Finish Color Out 10 Same Finish as Housing 11 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 12 Standard Finishes 13 Field Cuttable Mounting Kit only Available with HM Stem



PROJECT: \_\_\_\_\_  
 QUANTITY: \_\_\_\_\_ TYPE: \_\_\_\_\_



# 16" PRISMATIC & ALUMINUM TECH SERIES



## SERIES TYPE

**ALUMINUM**

**BOTTOM VIEW**



ALX16LX MATTE WHITE WITH TF3

**PRISMATIC**

**BOTTOM VIEW**



PRX16LX MATTE WHITE WITH TF3

## STANDARD FINISHES

**MW**  
MATTE WHITE



PRX16LX HM MATTE WHITE

**MB**  
MATTE BLACK



PRX16LX HM MATTE BLACK

**PT**  
PLATINUM SILVER



PRX16LX HM PLATINUM SILVER

## DECO-TIER OPTIONS

**1MR**  
SINGLE METAL RING



**CFG**  
CENTERED FROSTED GLASS



**FGR**  
FROSTED GLASS RING



## MOUNTING TYPES

**HM / PM**  
HANG STRAIGHT / PENDANT



PRX16LX SHOWN WITH PM

**CD**  
CORD / CABLE MOUNT



PRX16LX SHOWN WITH CD

**HC**  
HOOK CORD



PRX16LX SHOWN WITH HC

**NM**  
NO MOUNT



PRX16LX SHOWN WITH NM



# MOUNTING & ACCESSORIES

SOME OPTIONS NOT AVAILABLE ON ALL FIXTURES. CONSULT SPECIFICATION SHEETS. SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION. NOTE: THIS IS TYPICAL OF RLM SPECIFICATION FOR MOUNTING. INDIVIDUAL FIXTURES OR PROJECTS MAY HAVE SPECIALIZED REQUIREMENTS.



## ADDITIONS

### FS - Fusing

Slow blow type fuse protects fixture against voltage surges. Factory installed.



## SAFETY CABLE OPTIONS

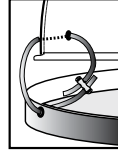
### SC1 - Safety Cable

1/16" stainless steel safety cable for added support. Standard kit is 18" and double barrel locks are provided. Approved for California seismic requirements. Rated at 50 lbs.



### SC2 - Safety Cable, Refractor to Door

1/16" Stainless steel cable holds door to fixture



## ENCLOSURES

### TF3 - 6" Frosted Diffuser



## OPTIONS

### TIER OPTIONS

- CFG-Center Frosted Glass Tier
- FGR-Frosted Glass Ring
- 1MR-Single Metal Ring

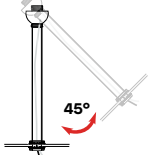


DF16 SHOWN WITH 1MR

## MOUNTING TYPES

### HM\* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

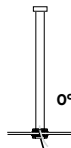


ORDER: **HM** (Length)  
SPECIFY LENGTH:  
**HM3** - 3"    **HM24** - 24"  
**HM6** - 6"    **HM36** - 36"  
**HM12** - 12"    **HM48** - 48"  
**HM18** - 18"    **HM72** - 72"  
**HMLC(XX)**  
Custom Length  
(Specify in Inches)

TO TRIM HM STEM IN FIELD ORDER FCHMA KIT.

### PM\* - Ridgid Pendant Mount

RIGID 5/8" OD STEM - 3/8" IP



ORDER: **PM** (Length)  
SPECIFY LENGTH:  
**PM3** - 3"    **PM24** - 24"  
**PM6** - 6"    **PM36** - 36"  
**PM12** - 12"    **PM48** - 48"  
**PM18** - 18"    **PM72** - 72"  
**PMLC(XX)**  
Custom Length  
(Specify in Inches)

### CD - Cord / Cable Mount

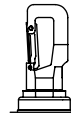
SJ CORD WITH 1/16 SS CABLE



ORDER: **CD** (Length)  
SPECIFY LENGTH:  
**CD36** - 36"  
**CD72** - 72"  
**CD144** - 144"  
**CDLC(XX)**  
Custom Length  
(Specify in Inches)

### HC - Hook & Cord

FOR INDEPENDENT MOUNTING



ORDER: **HC** (Length)  
SPECIFY LENGTH:  
**HC36** - 36"  
**HC72** - 72"  
**HC144** - 144"  
**HCLC(XX)**  
Custom Length  
(Specify in Inches)

### NM2 - 1/2" NPT Hub NM3 - 3/4" NPT Hub

FOR INDEPENDENT MOUNTING



ORDER: **NMX** (Length)  
SPECIFY LENGTH:  
**NM2(12)** - 12" Leads are Standard  
**NM3(12)** - 12" Leads are Standard  
**NMXLC(XX)**  
Custom Length  
(Specify in Inches)

\*MAXIMUM ONE PIECE STEM LENGTH IS 72".  
LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

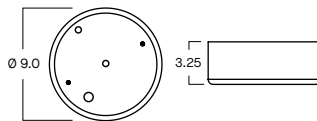
## MOUNTING OPTION

### FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



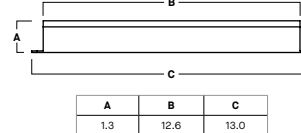
## EMERGENCY BATTERY OPTIONS

### EMCR - Large Driver Canopy For 10W Emergency Battery

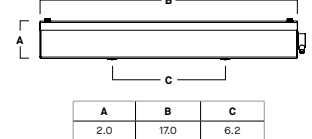


## REMOTE EMERGENCY BATTERY OPTIONS

### EMRM\* - 7W Remote Emergency Battery (50' Max)



### EMEN\* - 7W Remote Emergency Battery with Enclosure (50' Max)



\*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY



# 16" PRISMATIC

## TECH SERIES / PHOTOMETRIC DATA



PRAF16LEDLX 140L 35K xx PR16 xx

CANDLEPOWER CURVE TEST SP-01511_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT
	0°	0° - 10° 1405 10%	Mounting Distance	Ceiling Height
	0°	0° - 20° 4980 36%	FC at Beam Center	Fixture Spacing
	5°	0° - 30° 9269 67%	Diameter at Beam Angle	RCR 2
	15°	0° - 40° 12000 87%	FC at Beam Edge	RCR 4
	25°	0° - 60° 13304 96%		FC *
	35°	0° - 80° 13656 99%		W/Sq. Ft.
	45°	0° - 90° 13687 99%		FC *
	55°	Total 13815 100%		W/Sq. Ft.
	90°			FC *
				W/Sq. Ft.
				Delivered Illuminance Rating: (DIR)
Delivered Lumens: 13815	CP at 0° (Nadir): 15698	Beam Angle: 58°	Lumen Multiplier: 130L x .956	
Luminaire Watts: 107	CRI: 80+	Spacing Ratio: 0.86	CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949	
LER: 129.11		Melanopic Ratio: 0.55		

PRAF16LEDLX 140L 35K xx PR16 TF3 xx

CANDLEPOWER CURVE TEST SP-01497_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT
	0°	0° - 10° 1249 10%	Mounting Distance	Ceiling Height
	0°	0° - 20° 4353 35%	FC at Beam Center	Fixture Spacing
	5°	0° - 30° 8090 65%	Diameter at Beam Angle	RCR 2
	15°	0° - 40° 10495 84%	FC at Beam Edge	RCR 4
	25°	0° - 60° 11707 94%		FC *
	35°	0° - 80° 12174 97%		W/Sq. Ft.
	45°	0° - 90° 12281 98%		FC *
	55°	Total 12492 100%		W/Sq. Ft.
	90°			FC *
				W/Sq. Ft.
				Delivered Illuminance Rating: (DIR)
Delivered Lumens: 12492	CP at 0° (Nadir): 13518	Beam Angle: 58°	Lumen Multiplier: 130L x .950	
Luminaire Watts: 107	CRI: 80+	Spacing Ratio: 0.87	CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949	
LER: 116.75		Melanopic Ratio: 0.52		

PRAF16LEDLX 140L 35K xx DF16 xx

CANDLEPOWER CURVE TEST SP-01532_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT
	0°	0° - 10° 832 6%	Mounting Distance	Ceiling Height
	0°	0° - 20° 3031 22%	FC at Beam Center	Fixture Spacing
	5°	0° - 30° 6122 44%	Diameter at Beam Angle	RCR 2
	15°	0° - 40° 8595 62%	FC at Beam Edge	RCR 4
	25°	0° - 60° 10849 78%		FC *
	35°	0° - 80° 12458 89%		W/Sq. Ft.
	45°	0° - 90° 12965 93%		FC *
	55°	Total 13934 100%		W/Sq. Ft.
	90°			FC *
				W/Sq. Ft.
				Delivered Illuminance Rating: (DIR)
Delivered Lumens: 13934	CP at 0° (Nadir): 8806	Beam Angle: 68°	Lumen Multiplier: 130L x .946	
Luminaire Watts: 107	CRI: 80+	Spacing Ratio: 1.05	CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949	
LER: 130.22		Melanopic Ratio: 0.55		



# 16" PRISMATIC

## TECH SERIES / PHOTOMETRIC DATA



PRAF16LEDLX 140L 35K xx DF16 TF3 xx

CANDLEPOWER CURVE TEST SP-01531_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT					
	0°	0° - 10° 730 6%	Mounting Distance	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0° 7728	0° - 20° 2645 21%	FC at Beam Center	18'	12'	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	5° 7649	0° - 30° 5269 42%	Diameter of Beam Angle	22'	14'	58	0.57	48	0.57
	15° 6865	0° - 40° 7379 59%	FC at Beam Edge	26'	18'	38	0.37	31	0.37
	25° 5848	0° - 60° 9390 76%		Delivered Illuminance Rating: (DIR)		103 FC per W/Sq. Ft.		85 FC per W/Sq. Ft.	
	35° 3405	0° - 80° 10898 88%		3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 5.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor					
	45° 1316	0° - 90° 11423 92%							
	55° 1036	Total 12420 100%							
	90° 411								

Delivered Lumens: 12420  
 Luminaire Watts: 107  
 LER: 116.07

CP at 0° (Nadir): 7728  
 CRI: 80+

Beam Angle: 67°  
 Spacing Ratio: 1.02  
 Melanopic Ratio: 0.52

Lumen Multiplier: 130L x .953  
 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949

PRX16LEDLX-140L-35K-E1-PR16-CFG

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
	0.00°	0° - 10° 1,106 9%	Mounting Height AFF	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0.00° 9,846	0° - 20° 3,459 29%	FC at Center on Floor	22'	16'	47	0.45	25	0.29
	5.00° 9,707	0° - 30° 6,262 53%	Beam Diameter	26'	18'	29	0.29	36	0.41
	10.00° 9,336	0° - 40° 8,530 72%	FC at Beam Edge	32'	20'	25	0.24	21	0.24
	15.00° 8,633	0° - 60° 10,679 90%		Delivered Illuminance Rating: (DIR)		103 FC per W/Sq. Ft.		87 FC per W/Sq. Ft.	
	20.00° 7,497	0° - 80° 11,320 96%		2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 16% ** Exceeds spacing criteria by 4% *** Exceeds spacing criteria by -12%					
	30.00° 4,923	0° - 90° 11,424 96%							
	40.00° 2,545	Total 11,839 100%							
	50.00° 1,200								
	60.00° 585								
	70.00° 288								

Delivered Lumens: 11,839  
 Luminaire Watts: 108.7  
 LER: 108.91

CP at 0deg (Nadir): 9,846  
 CRI: 85+

Beam Angle: 59.52  
 Spacing Ratio: 0.89

Lamp Multiplier: 65L x 0.67, 100L x 1.0, 130L x 1.32, 140L x 1.50  
 CCT Multiplier: 50K x 1.06, 40K x 1.03, 30K x 0.979, 27K x 0.959

PRX16LEDLX-140L-35K-E1-PR16-FGR

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
	0.00°	0° - 10° 1,746 12%	Mounting Height AFF	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0.00° 15,493	0° - 20° 5,444 39%	FC at Center on Floor	22'	12'	83	0.65	72	0.65
	5.00° 15,322	0° - 30° 9,572 68%	Beam Diameter	26'	14'	71	0.56	46	0.41
	10.00° 15,249	0° - 40° 12,048 85%	FC at Beam Edge	32'	16'	54	0.43	47	0.43
	15.00° 13,603	0° - 60° 13,356 94%		Delivered Illuminance Rating: (DIR)		127 FC per W/Sq. Ft.		111 FC per W/Sq. Ft.	
	20.00° 11,423	0° - 80° 13,727 97%		2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor ** Exceeds spacing criteria by -10% *** Exceeds spacing criteria by -17% **** Exceeds spacing criteria by -27%					
	30.00° 6,775	0° - 90° 13,778 97%							
	40.00° 1,755	Total 14,135 100%							
	50.00° 647								
	60.00° 367								
	70.00° 171								

Delivered Lumens: 14,135  
 Luminaire Watts: 108.7  
 LER: 130.04

CP at 0deg (Nadir): 15,493  
 CRI: 85+

Beam Angle: 56.15  
 Spacing Ratio: 0.86

Lamp Multiplier: 65L x 0.67, 100L x 1.0, 130L x 1.32, 140L x 1.50  
 CCT Multiplier: 50K x 1.06, 40K x 1.03, 30K x 0.979, 27K x 0.959



# 16" PRISMATIC

## TECH SERIES / PHOTOMETRIC DATA



PRX16LEDLX-140L-35K-E1-PR16-1MR

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				
	0.00°														
	0.00°	15,477	0° - 10°	1,741	12%	10.0'	155 fc	10.6'	77 fc	22'	12'	82	0.65	72	0.65
	5.00°	15,264	0° - 20°	5,432	39%	12.0'	107 fc	12.8'	53 fc	26'	14'	71	0.56	45	0.41
	10.00°	14,895	0° - 30°	9,543	68%	12.0'	107 fc	12.8'	53 fc	32'	16'	54	0.43	47	0.43
	15.00°	13,685	0° - 40°	11,980	85%	14.0'	79 fc	14.9'	39 fc	Delivered Illuminance Rating: (DIR)					
	20.00°	11,405	0° - 60°	13,213	94%	16.0'	60 fc	17.0'	30 fc	2' Suspension Length					
	30.00°	6,756	0° - 80°	13,559	97%	20.0'	39 fc	21.3'	19 fc	Square rooms used for multiple units:					
	40.00°	1,683	0° - 90°	13,586	97%	24.0'	27 fc	25.6'	13 fc	- RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00					
	50.00°	612	Total	14,040	100%	28.0'	20 fc	29.8'	10 fc	- RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50					
	60.00°	334				32.0'	15 fc	34.1'	8 fc	* Average Footcandles at 2.5' Above Floor					
	70.00°	164								* Exceeds spacing criteria by -9%					
	80.00°	50								** Exceeds spacing criteria by -16%					
	90.00°	5								*** Exceeds spacing criteria by -26%					

Delivered Lumens: 14,040  
Luminaire Watts: 108.7  
LER: 129.16

CP at 0deg (Nadir): 15,477  
CRI: 85+

Beam Angle: 55.93  
Spacing Ratio: 0.85

Lamp Multiplier: 65L x 0.67, 100L x 1.0, 130L x 1.32, 140L x 1.50  
CCT Multiplier: 50K x 1.06, 40K x 1.03, 30K x 0.979, 27K x 0.959



# 16" ALUMINUM

## TECH SERIES / PHOTOMETRIC DATA



ALDDH16LEDLX 140L 35K xx AL16 MWI xx

CANDLEPOWER CURVE TEST SP-01482_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT					
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0°	0° - 10° 767 7%	8'	125 fc	11.6'	33 fc	18'	12'	70	0.68	84	0.99
	0°	0° - 20° 2819 25%	10'	80 fc	14.5'	21 fc	22'	14'	57	0.57	48	0.57
	5°	0° - 30° 5730 50%	12'	56 fc	17.3'	15 fc	26'	18'	37	0.37	31	0.37
	15°	0° - 40° 8363 73%	14'	41 fc	20.2'	11 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 10361 91%	16'	31 fc	23.1'	8 fc	102 FC per W/Sq. Ft. 85 FC per W/Sq. Ft.					
	35°	0° - 80° 11318 99%	20'	20 fc	28.9'	5 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 5.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor					
	45°	0° - 90° 11382 100%	24'	14 fc	34.7'	4 fc						
	55°	978	28'	10 fc	40.5'	3 fc						
	90°	3	Total	11400	100%							
	Delivered Lumens: 11400 Luminaire Watts: 107 LER: 106.54		CP at 0° (Nadir): 8022 CRI: 80+		Beam Angle: 72° Spacing Ratio: 1.09 Melanopic Ratio: 0.55		Lumen Multiplier: 130L x .940 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949					

ALDDH16LEDLX 140L 35K xx AL16 MWI TF3 xx

CANDLEPOWER CURVE TEST SP-01504_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT					
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0°	0° - 10° 674 7%	8'	111 fc	11.5'	30 fc	18'	12'	61	0.68	74	0.99
	0°	0° - 20° 2470 24%	10'	71 fc	14.3'	19 fc	22'	14'	51	0.57	42	0.57
	5°	0° - 30° 4986 49%	12'	49 fc	17.2'	13 fc	26'	18'	33	0.37	27	0.37
	15°	0° - 40° 7278 72%	14'	36 fc	20.0'	10 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 9158 91%	16'	28 fc	22.9'	7 fc	90 FC per W/Sq. Ft. 75 FC per W/Sq. Ft.					
	35°	0° - 80° 10008 99%	20'	18 fc	28.6'	5 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 5.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor					
	45°	0° - 90° 10066 100%	24'	12 fc	34.4'	3 fc						
	55°	881	28'	9 fc	40.1'	2 fc						
	90°	5	Total	10087	100%							
	Delivered Lumens: 10087 Luminaire Watts: 107 LER: 94.27		CP at 0° (Nadir): 7117 CRI: 80+		Beam Angle: 71° Spacing Ratio: 1.05 Melanopic Ratio: 0.52		Lumen Multiplier: 130L x .890 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949					

ALX16LX-140L-35K-EX-AL16-CFG-xx

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0.00°	0° - 10° 518 6%	10.0'	55 fc	15.6'	26 fc	22'	16'	36	0.47	19	0.30
	5.00°	0° - 20° 1,916 20%	12.0'	38 fc	18.7'	18 fc	26'	18'	23	0.29	27	0.42
	10.00°	0° - 30° 3,841 41%	14.0'	28 fc	21.8'	13 fc	32'	20'	19	0.25	16	0.25
	15.00°	0° - 40° 5,759 61%	16.0'	21 fc	24.9'	10 fc	Delivered Illuminance Rating: (DIR)					
	20.00°	0° - 60° 8,155 87%	20.0'	14 fc	31.1'	7 fc	77 FC per W/Sq. Ft. 63 FC per W/Sq. Ft.					
	25.00°	0° - 80° 9,068 97%	24.0'	9 fc	37.3'	5 fc	2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor ** Exceeds spacing criteria by -2% *** Exceeds spacing criteria by -12% **** Exceeds spacing criteria by -25%					
	30.00°	0° - 90° 9,186 98%	28.0'	7 fc	43.6'	3 fc						
	40.00°	2,452	32.0'	5 fc	49.8'	3 fc						
	50.00°	1,384	Total	9,389	100%							
	60.00°	800					Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93					
	70.00°	417					CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959					
80.00°	192											
90.00°	19											
Delivered Lumens: 9,389 Luminaire Watts: 111.89 LER: 83.91		CP at 0deg (Nadir): 5,450 CRI: 80+		Beam Angle: 75.92 Spacing Ratio: 1.05								





# 16" ALUMINUM

## TECH SERIES / PHOTOMETRIC DATA



ALX16LX-140L-35K-EX-AL16-FGR-xx

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT											
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4							
	0.00°																	
	0.00°	7,638	0° - 10°	732	6%													
	5.00°	7,670	0° - 20°	2,719	23%													
	10.00°	7,475	0° - 30°	5,519	47%	10.0'	76 fc	14.9'	37 fc	22'	20'	29	0.30	24	0.30			
	15.00°	7,084	0° - 40°	8,164	70%	12.0'	53 fc	17.9'	26 fc	26'	22''	18	0.19	15	0.19			
	20.00°	6,533	0° - 60°	10,367	89%	14.0'	39 fc	20.8'	19 fc	32'	24''	17	0.17	20	0.25			
	30.00°	5,624	0° - 80°	11,379	98%	16.0'	30 fc	23.8'	14 fc	Delivered Illuminance Rating: (DIR)				97 FC per W/Sq. Ft.		81 FC per W/Sq. Ft.		
	40.00°	2,563	0° - 90°	11,467	99%	20.0'	19 fc	29.8'	9 fc	2' Suspension Length				Square rooms used for multiple units:				
	50.00°	1,211	Total	11,637	100%	24.0'	13 fc	35.7'	6 fc	- RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00				- RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50				
	60.00°	840				28.0'	10 fc	41.7'	5 fc	* Average Footcandles at 2.5' Above Floor				* Exceeds spacing criteria by 16%				
	70.00°	496				32.0'	7 fc	47.6'	4 fc	** Exceeds spacing criteria by 2%				*** Exceeds spacing criteria by -15%				
	80.00°	179								Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93				CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959				
	90.00°	5								CP at 0deg (Nadir): 7,638				CRI: 80+				
									Beam Angle: 73.18				Spacing Ratio: 1.11					

ALX16LX-140L-35K-EX-AL16-1MR-xx

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT											
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4							
	0.00°																	
	0.00°	7,574	0° - 10°	728	6%													
	5.00°	7,611	0° - 20°	2,693	23%													
	10.00°	7,420	0° - 30°	5,446	47%	10.0'	76 fc	14.8'	37 fc	22'	20'	28	0.30	24	0.30			
	15.00°	7,026	0° - 40°	8,034	70%	12.0'	53 fc	17.7'	25 fc	26'	22''	18	0.19	15	0.19			
	20.00°	6,406	0° - 60°	10,116	88%	14.0'	39 fc	20.7'	19 fc	32'	24''	16	0.17	20	0.25			
	30.00°	5,548	0° - 80°	11,089	97%	16.0'	30 fc	23.6'	14 fc	Delivered Illuminance Rating: (DIR)				96 FC per W/Sq. Ft.		80 FC per W/Sq. Ft.		
	40.00°	2,483	0° - 90°	11,158	97%	20.0'	19 fc	29.5'	9 fc	2' Suspension Length				Square rooms used for multiple units:				
	50.00°	1,142	Total	11,479	100%	24.0'	13 fc	35.4'	6 fc	- RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00				- RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50				
	60.00°	808				28.0'	10 fc	41.3'	5 fc	* Average Footcandles at 2.5' Above Floor				* Exceeds spacing criteria by 17%				
	70.00°	475				32.0'	7 fc	47.2'	4 fc	** Exceeds spacing criteria by 3%				*** Exceeds spacing criteria by -14%				
	80.00°	170								Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93				CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959				
	90.00°	1								CP at 0deg (Nadir): 7,574				CRI: 80+				
									Beam Angle: 72.68				Spacing Ratio: 1.1					

### HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.</p> $FC_H = CP \times (\cos \theta) \div D^2$ <p>Beam Diam. = <math>\frac{1}{2}</math> Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> <li>- CP Candela at 0° (Nadir)</li> <li>- Cos <math>\theta</math> Cosine of <math>\theta</math> Angle</li> <li>- D Distance (Mounting Height AFF)</li> <li>- FC<sub>H</sub> Footcandles, Horizontal</li> <li>- Beam Angle Cone of light to 50% max. CP</li> <li>- Beam Diam. Pattern of light at Beam Angle</li> </ul>	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 4' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR®): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> <li>- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): FC = Chart Spacing<sup>2</sup> ÷ Different Spacing<sup>2</sup> x Chart FC</li> <li>- To estimate Sq. Ft. per fixture for a specific target FC: Sq. Ft. / Fixture = Chart FC x Chart Spacing<sup>2</sup> ÷ Target FC</li> </ul> <p style="text-align: center;">W L</p> <ul style="list-style-type: none"> <li>- To estimate Fixture Quantity in a room: Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture</li> <li>- To estimate Watts/Sq. Ft.: W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.</li> </ul>

