



16" Low/Mid/High Bay 13800 Lm Extruded Industrial Housing



PREXT16LX & ALEXT16LX

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.

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 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

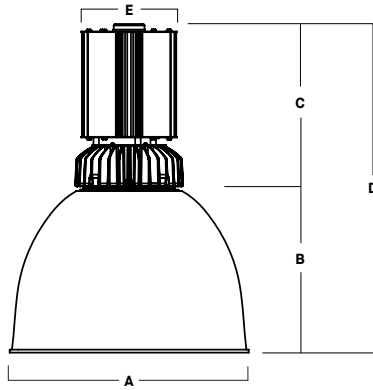
LED system features high brightness white Nichia LEDs. 3-step MacAdam Ellipse binning. Standard CRI: 80+. Higher CRI, R9 and custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers. LED module is 2 circuit with 2 drivers for multicircuit option.

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.

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
PRISMATIC	16.2 411.5 mm	10.8 274.3 mm	12.6 320.0 mm	23.4 594.4 mm	6.6 167.6 mm
ALUMINUM	16.0 406.4 mm	10.4 264.2 mm	12.5 317.5 mm	22.9 581.7 mm	6.6 167.6 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
PREXT16LX65L	7386	52	142
PREXT16LX100L	10510	80	131
PREXT16LX130L	13204	98	135
PREXT16LX140L	13815	107	129

¹ Nominal Delivered Lumens at 35K with PR16, No Lens

SERIES	LUMENS ¹	CCT	DRIVER / DIMMING ²	SAFETY OPTIONS ³	MOUNTING ⁴	SHADE	ENCLOSURE OPTIONS	OPTIONS	FINISH ¹³	MOUNTING OPTION ¹⁵
PRISMATIC PREXT16LX	65L 7400 Lm	27K 2700K	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 SC1 Safety Cable	HM ⁵ Hang Straight PM ⁵ Rigid Pendant CD ⁵ Cord / Cable Mount HC ^{5/6/7} Hook & Cord NM2 ^{6/7/8} ½" NPT Hub NM3 ^{6/7/8} ¾" NPT Hub	PRISMATIC PR16 16" Clear DF16 16" Diffuse OP16 16" Opal	TF3 - 6" Frosted Diffuser (CANNOT BE USED WITH DR OPTION) ACCESSORIES DR16D ⁹ 16" Spun Door BC16 16" Band Clamp RS16 ¹¹ 16" Refractor Shroud AL16/MWI ¹² 16" Door with Wire Guard AL16/FCI ¹² 16" Wire Guard	SC2 Safety Cable Reflector to door	MW ¹⁴ Matte White MB ¹⁴ Matte Black PT ¹⁴ Platinum Silver CC Custom Color	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures
	ALUMINUM ALEXT16LX	100L 10500 Lm 130L 13200 Lm 140L 13800 Lm								

EXAMPLE: PREXT16LX100L35KEX/CD36/PR16/DR16DFO/MW

NOTES:
¹ Nominal Delivered Lumens at 35K with PR16, No Lens 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 Refractor Finished Matte White with Finish Color Out ¹⁰ Same Finish as Housing ¹¹ Same Finish as Housing / For Use with Prismatic Shades Only ¹² No Color ¹³ Reference Color Sheet Located on Product Webpage for Full List of Available Colors ¹⁴ Standard Finishes ¹⁵ Field Cuttable Mounting Kit only Available with HM Stem



PROJECT: _____
 QUANTITY: _____ TYPE: _____



16" PRISMATIC & ALUMINUM EXT SERIES



SERIES TYPE

ALUMINUM

BOTTOM VIEW



ALEXT16LX MATTE WHITE WITH TF3

PRISMATIC

BOTTOM VIEW



PREXT16LX MATTE WHITE WITH TF3

STANDARD FINISHES

MW
MATTE WHITE

MB
MATTE BLACK

PT
PLATINUM SILVER



PREXT16LX HM MATTE WHITE



PREXT16LX HM MATTE BLACK



PREXT16LX HM PLATINUM SILVER

MOUNTING TYPES

HM / PM
HANG STRAIGHT / PENDANT

CD
CORD / CABLE MOUNT

HC
HOOK CORD

NM
NO MOUNT



PREXT16LX SHOWN WITH PM



PREXT16LX SHOWN WITH CD



PREXT16LX SHOWN WITH HC



PREXT16LX 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

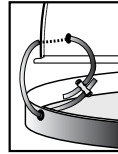
SC1 - Safety Cable

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

DOOR

DR16D-16" Spun Door
BC16-16" Band Clamp
RS16-16" Refractor Shroud

LENSES

CNFR-Conical Frosted Lens
CN-Conical Lens
DL-Drop Lens
FO-White Optical Acrylic
PP-Prismatic Polycarbonate
PC-Clear Polycarbonate



DR16D SHOWN WITH CN

DOOR & GUARD

DR16DWAG-16" Door with Wire Guard

LENSES

FO-White Optical Acrylic
PP-Prismatic Polycarbonate
PC-Clear Polycarbonate



DR16DWAG SHOWN WITH FO

GUARD OPTION

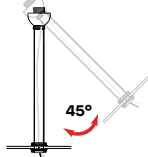
WAG16-16" Wire Guard



MOUNTING TYPES

HM* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

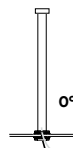


ORDER: **HM** (Length)
 SPECIFY LENGTH:
HM3 - 3" **HM24** - 24"
HM6 - 6" **HM36** - 36"
HM12 - 12" **HM48** - 48"
HM18 - 18" **HM72** - 72"
HMLC(XX)
 Custom Length
 (Specify in Inches)

TO TRIM HM STEM IN FIELD ORDER FCHMA KIT.

PM* - Rigid 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

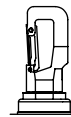
SJ CORD WITH 1/16 SS CABLE



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.

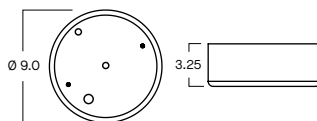
MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



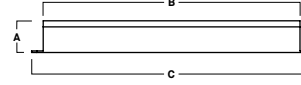
EMERGENCY BATTERY OPTIONS

EMCR - Large Driver Canopy For 10W Emergency Battery



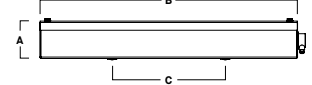
REMOTE EMERGENCY BATTERY OPTIONS

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



A	B	C
1.3	12.6	13.0

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



A	B	C
2.0	17.0	6.2

*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY



16" PRISMATIC

EXT 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	Fixture Spacing	RCR 2		RCR 4		
	0° 15698	0° - 20° 4980 36%	FC at Beam Center	18'	12"	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	
	5° 15222	0° - 30° 9269 67%	Diameter at Beam Angle	22'	14'	72	0.57	63	0.57	
	15° 12753	0° - 40° 12000 87%	FC at Beam Edge	26'	18"	47	0.37	41	0.37	
	25° 9542	0° - 60° 13304 96%	Delivered Illuminance Rating: (DIR)	128 FC per W/Sq. Ft.		111 FC per W/Sq. Ft.				
	35° 4331	0° - 80° 13656 99%	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 * Exceeds Spacing Ratio by 12% *** Exceeds Spacing Ratio by 2%							
	45° 1051	0° - 90° 13687 99%								
	55° 394	Total 13815 100%								
	90° 22									
	Delivered Lumens: 13815 Luminaire Watts: 107 LER: 129.11	CP at 0° (Nadir): 15698 CRI: 80+	Beam Angle: 58° Spacing Ratio: 0.86 Melanopic Ratio 0.55	Lumen Multiplier: 130L x .956 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949						

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	Fixture Spacing	RCR 2		RCR 4		
	0° 13518	0° - 20° 4353 35%	FC at Beam Center	18'	12"	78	0.68	97	0.99	
	5° 13233	0° - 30° 8090 65%	Diameter at Beam Angle	22'	14'	65	0.57	56	0.57	
	15° 11172	0° - 40° 10495 84%	FC at Beam Edge	26'	18"	42	0.37	36	0.37	
	25° 8386	0° - 60° 11707 94%	Delivered Illuminance Rating: (DIR)	114 FC per W/Sq. Ft.		99 FC per W/Sq. Ft.				
	35° 3772	0° - 80° 12174 97%	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 * Exceeds Spacing Ratio by 10% *** Exceeds Spacing Ratio by 1%							
	45° 947	0° - 90° 12281 98%								
	55° 369	Total 12492 100%								
	90° 63									
	Delivered Lumens: 12492 Luminaire Watts: 107 LER: 116.75	CP at 0° (Nadir): 13518 CRI: 80+	Beam Angle: 58° Spacing Ratio: 0.87 Melanopic Ratio 0.52	Lumen Multiplier: 130L x .950 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949						

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	Fixture Spacing	RCR 2		RCR 4		
	0° 8806	0° - 20° 3031 22%	FC at Beam Center	18'	12"	80	0.68	95	0.99	
	5° 8705	0° - 30° 6122 44%	Diameter at Beam Angle	22'	14'	66	0.57	54	0.57	
	15° 7850	0° - 40° 8595 62%	FC at Beam Edge	26'	18"	43	0.37	35	0.37	
	25° 6877	0° - 60° 10849 78%	Delivered Illuminance Rating: (DIR)	117 FC per W/Sq. Ft.		96 FC per W/Sq. Ft.				
	35° 3999	0° - 80° 12458 89%	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° 1523	0° - 90° 12965 93%								
	55° 1182	Total 13934 100%								
	90° 385									
	Delivered Lumens: 13934 Luminaire Watts: 107 LER: 130.22	CP at 0° (Nadir): 8806 CRI: 80+	Beam Angle: 68° Spacing Ratio: 1.05 Melanopic Ratio 0.55	Lumen Multiplier: 130L x .946 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949						



16" PRISMATIC

EXT 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	Fixture Spacing	RCR 2	RCR 4		
	0° 15698	0° - 20° 4980 36%	FC at Beam Center	18'	12"	FC * W/Sq. Ft.	FC * W/Sq. Ft.		
	5° 15222	0° - 30° 9269 67%	Diameter of Beam Angle	22'	14"	72 0.57	63 0.57		
	15° 12753	0° - 40° 12000 87%	FC at Beam Edge	26'	18****	47 0.37	41 0.37		
	25° 9542	0° - 60° 13304 96%		Delivered Illuminance Rating: (DIR)				128 FC per W/Sq. Ft.	111 FC per W/Sq. Ft.
	35° 4331	0° - 80° 13656 99%		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 ** Exceeds Spacing Ratio by 12% *** Exceeds Spacing Ratio by 2%					
	45° 1051	0° - 90° 13687 99%							
	55° 394	Total 13815 100%							
	90° 22								
	Delivered Lumens: 13815 Luminaire Watts: 107 LER: 129.11	CP at 0° (Nadir): 15698 CRI: 80+	Beam Angle: 58° Spacing Ratio: 0.86 Melanopic Ratio 0.55	Lumen Multiplier: 130L x .956 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949					

PRxxx16LEDLX-140L-35K-E1-PR16

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° 1,454 11%	Mounting Height AFF	Ceiling Height	Fixture Spacing	RCR 2	RCR 4		
	0.00° 14,505	0° - 20° 5,025 38%	FC at Center on Floor	22'	16' *	54 0.52	68 0.76		
	5.00° 14,635	0° - 30° 9,023 68%	Beam Diameter	26'	18" **	34 0.33	43 0.48		
	10.00° 14,337	0° - 40° 11,361 86%	FC at Beam Edge	32'	20" ***	29 0.28	25 0.28		
	15.00° 13,122	0° - 60° 12,547 95%		Delivered Illuminance Rating: (DIR)				103 FC per W/Sq. Ft.	90 FC per W/Sq. Ft.
	20.00° 10,975	0° - 80° 12,916 98%		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 19% *** Exceeds spacing criteria by 6%					
	30.00° 6,569	0° - 90° 12,968 98%							
	40.00° 1,565	Total 13,221 100%							
	50.00° 591								
	60.00° 345								
70.00° 175									
80.00° 63									
90.00° 43									
Delivered Lumens: 13,221 Luminaire Watts: 126 LER: 104.93	CP at 0deg (Nadir): 14,505 CRI:	Beam Angle: 57.08 Spacing Ratio: 0.87	Lamp Multiplier: 65L x 0.67, 100L x 1, 130L x 1.32, 140L 1.42 CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959						



16" ALUMINUM

EXT 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								

ALxxx16LX-140L-35K-EX-AL16

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° 736 6%	10.0'	76 fc	15.0'	37 fc	22'	20'	29	0.30	24	0.30	
	5.00°	0° - 20° 2,739 23%	12.0'	53 fc	18.0'	26 fc	26'	22'	18	0.19	15	0.19	
	10.00°	0° - 30° 5,572 48%	14.0'	39 fc	21.0'	19 fc	32'	24'	17	0.17	20	0.25	
	15.00°	0° - 40° 8,316 71%	16.0'	30 fc	24.0'	14 fc	Delivered Illuminance Rating: (DIR)						
	20.00°	0° - 60° 10,456 90%	20.0'	19 fc	30.0'	9 fc	98 FC per W/Sq. Ft. 81 FC per W/Sq. Ft.						
	30.00°	0° - 80° 11,572 99%	24.0'	13 fc	36.0'	6 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 14% *** Exceeds spacing criteria by -0%						
	40.00°	0° - 90° 11,669 100%	28.0'	10 fc	42.0'	5 fc							
	50.00°	1,210	32.0'	7 fc	48.0'	4 fc							
	60.00°	885	Total	11,669	100%								
	70.00°	549											
	80.00°	226											
90.00°	0												
Delivered Lumens: 11,669 Luminaire Watts: 111.89 LER: 104.29	CP at 0deg (Nadir): 7,638 CRI: 85	Beam Angle: 73.56 Spacing Ratio: 1.13	Lamp Multiplier: 67L 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										



16" ALUMINUM

EXT SERIES / PHOTOMETRIC DATA



ALxxx16LX-140L-35K-EX-AL16-BC16-CN

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° 352 4%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		
	0.00° 3,096	0° - 20° 1,640 19%	10.0'	31 fc	16.3'	15 fc	22'	22'	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	
	5.00° 3,411	0° - 30° 3,889 44%	12.0'	21 fc	19.6'	10 fc	26'	24'	12	0.17	18	0.30	
	10.00° 3,935	0° - 40° 6,080 69%	14.0'	16 fc	22.8'	7 fc	32'	28'	14	0.19	11	0.19	
	15.00° 4,533	0° - 60° 7,937 91%	16.0'	12 fc	26.1'	6 fc	Delivered Illuminance Rating: (DIR)					73 FC per W/Sq. Ft.	60 FC per W/Sq. Ft.
	20.00° 4,932	0° - 80° 8,708 99%	20.0'	8 fc	32.6'	4 fc	2' Suspension Length						
	30.00° 4,480	0° - 90° 8,766 100%	24.0'	5 fc	39.2'	3 fc	Square rooms used for multiple units:						
	40.00° 2,353	Total 8,766 100%	28.0'	4 fc	45.7'	2 fc	- RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00						
	50.00° 948		32.0'	3 fc	52.2'	1 fc	- RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50						
	60.00° 664						* Average Footcandles at 2.5' Above Floor						
	70.00° 373						* Exceeds spacing criteria by -6%						
	80.00° 134						** Exceeds spacing criteria by -18%						
	90.00° 0						*** Exceeds spacing criteria by -27%						
Delivered Lumens: 8,766	CP at 0deg (Nadir): 3,096	Beam Angle: 78.35	Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93										
Luminaire Watts: 111.89	CRI: 85	Spacing Ratio: 1.51	CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959										
LER: 78.34													

ALxxx16LX-140L-35K-EX-AL16-BC16-DL

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° 361 4%	Mounting Height AFF	FC at Center on Floor	Ceiling Height	Fixture Spacing	RCR 2		RCR 4			
	0.00° 4,108	0° - 20° 1,224 13%	10.0'	41 fc	22'	12'	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.		
	20.00° 2,800	0° - 30° 2,415 27%	12.0'	29 fc	26'	14'	47	0.67	37	0.67		
	40.00° 2,068	0° - 40° 3,779 42%	14.0'	21 fc	32'	16'	40	0.58	23	0.42		
	60.00° 1,133	0° - 60° 7,065 78%	16.0'	16 fc	Delivered Illuminance Rating: (DIR)					70 FC per W/Sq. Ft.	55 FC per W/Sq. Ft.	
	80.00° 437	0° - 80° 8,395 92%	20.0'	10 fc	2' Suspension Length							
	90.00° 264	0° - 90° 8,774 96%	24.0'	7 fc	Square rooms used for multiple units:							
	100.00° 142	Total 9,106 100%	28.0'	5 fc	- RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00							
	110.00° 44		32.0'	4 fc	- RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50							
	120.00° 0				* Average Footcandles at 2.5' Above Floor							
	140.00° 0				* Exceeds spacing criteria by -10%							
	160.00° 0				** Exceeds spacing criteria by -17%							
	180.00° 0				*** Exceeds spacing criteria by -27%							
Delivered Lumens: 9,106	CP at 0deg (Nadir): 4,108	Beam Angle: 103.61	Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93									
Luminaire Watts: 111.89	CRI: 85	Spacing Ratio: 1.18	CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959									
LER: 81.38												

ALxxx16LX-140L-35K-EX-AL16-BC16-FO

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° 303 4%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		
	0.00° 3,174	0° - 20° 1,147 14%	10.0'	32 fc	25.4'	12 fc	22'	20'	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	
	5.00° 3,155	0° - 30° 2,392 29%	12.0'	22 fc	30.5'	8 fc	26'	22'	19	0.30	15	0.30	
	10.00° 3,094	0° - 40° 3,847 47%	14.0'	16 fc	35.6'	6 fc	32'	24'	12	0.19	10	0.19	
	15.00° 2,993	0° - 60° 6,596 81%	16.0'	12 fc	40.7'	5 fc	Delivered Illuminance Rating: (DIR)					64 FC per W/Sq. Ft.	50 FC per W/Sq. Ft.
	20.00° 2,865	0° - 80° 8,035 99%	20.0'	8 fc	50.9'	3 fc	2' Suspension Length						
	30.00° 2,524	0° - 90° 8,124 100%	24.0'	6 fc	61.0'	2 fc	Square rooms used for multiple units:						
	40.00° 2,115	Total 8,124 100%	28.0'	4 fc	71.2'	1 fc	- RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00						
	50.00° 1,674		32.0'	3 fc	81.4'	1 fc	- RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50						
	60.00° 1,200						* Average Footcandles at 2.5' Above Floor						
	70.00° 707						* Exceeds spacing criteria by 9%						
	80.00° 239						** Exceeds spacing criteria by -4%						
	90.00° 0						*** Exceeds spacing criteria by -20%						
Delivered Lumens: 8,124	CP at 0deg (Nadir): 3,174	Beam Angle: 103.61	Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93										
Luminaire Watts: 111.89	CRI: 85	Spacing Ratio: 1.18	CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959										
LER: 72.61													



16" ALUMINUM

EXT SERIES / PHOTOMETRIC DATA



ALxxx16LX-140L-35K-EX-AL16-BC16-PP

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°	565	6%	10.0'	61 fc	12.7'	30 fc	22'	12'	49	0.67	40	0.67
	5.00°	6,074	0° - 20°	1,881	21%	12.0'	42 fc	15.2'	21 fc	26'	14'	42	0.58	25	0.42
	10.00°	5,442	0° - 30°	3,570	40%	14.0'	31 fc	17.8'	15 fc	32'	16'	32	0.44	26	0.44
	15.00°	4,652	0° - 40°	5,337	60%	16.0'	24 fc	20.3'	12 fc	Delivered Illuminance Rating: (DIR)		73 FC per W/Sq. Ft. 60 FC per W/Sq. Ft.			
	20.00°	4,112	0° - 60°	7,950	90%	20.0'	15 fc	25.4'	7 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 -8% ** Exceeds spacing criteria by -15% *** Exceeds spacing criteria by -25%					
	30.00°	3,260	0° - 80°	8,831	99%	24.0'	11 fc	30.5'	5 fc	Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93					
	40.00°	2,438	0° - 90°	8,879	100%	28.0'	8 fc	35.6'	4 fc	CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959					
	50.00°	1,654	Total	8,879	100%	32.0'	6 fc	40.7'	3 fc						
	60.00°	852													
	70.00°	425													
	80.00°	144													
	90.00°	0													

Delivered Lumens: 8,879
Luminaire Watts: 111.89
LER: 79.35

CP at 0deg (Nadir): 6,074
CRI: 85

Beam Angle: 65.17
Spacing Ratio: 0.84

ALxxx16LX-140L-35K-EX-AL16-BC16-PC

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°	618	7%	10.0'	64 fc	14.3'	31 fc	22'	20'	24	0.30	20	0.30
	5.00°	6,421	0° - 20°	2,291	24%	12.0'	45 fc	17.2'	22 fc	26'	22'	15	0.19	12	0.19
	10.00°	6,310	0° - 30°	4,657	50%	14.0'	33 fc	20.1'	16 fc	32'	24'	14	0.17	16	0.25
	15.00°	5,998	0° - 40°	6,743	72%	16.0'	25 fc	22.9'	12 fc	Delivered Illuminance Rating: (DIR)		79 FC per W/Sq. Ft. 66 FC per W/Sq. Ft.			
	20.00°	5,500	0° - 60°	8,537	91%	20.0'	16 fc	28.6'	8 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 15% ** Exceeds spacing criteria by 15% *** Exceeds spacing criteria by -16%					
	30.00°	4,787	0° - 80°	9,350	100%	24.0'	11 fc	34.4'	5 fc	Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93					
	40.00°	1,854	0° - 90°	9,380	100%	28.0'	8 fc	40.1'	4 fc	CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959					
	50.00°	1,065	Total	9,380	100%	32.0'	6 fc	45.8'	3 fc						
	60.00°	733													
	70.00°	386													
	80.00°	95													
	90.00°	0													

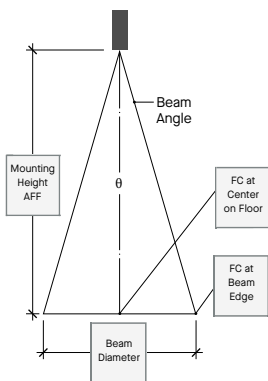
Delivered Lumens: 9,380
Luminaire Watts: 111.89
LER: 83.83

CP at 0deg (Nadir): 6,421
CRI: 85

Beam Angle: 71.19
Spacing Ratio: 1.12

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



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.

$$FC_H = CP \times (\cos \theta) \div D^2$$

$$\text{Beam Diam.} = \frac{1}{2} \text{Beam Angle (Tan)} \times 2D$$

- CP Candela at 0° (Nadir)
- Cos θ Cosine of θ Angle
- D Distance (Mounting Height AFF)
- FC_H Footcandles, Horizontal
- Beam Angle Cone of light to 50% max. CP
- Beam Diam. Pattern of light at Beam Angle

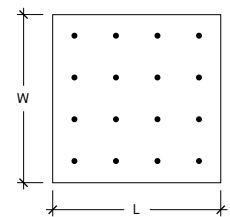
MULTIPLE UNITS

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.

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.

- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio):
 $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$

- To estimate Sq. Ft. per fixture for a specific target FC:
 $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$



- To estimate Fixture Quantity in a room:
 $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$

- To estimate Watts/Sq. Ft.:
 $W/ \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

