



16" Low/Mid/High Bay 13800 Lm

Quick Ship



PRDDH16LX & ALDDH16LX

APPLICATION

16" Lumen Max LX series performance pendant for low and mid-bay applications. Prismatic refractor provides horizontal and vertical distribution. Aluminum reflector designed for maximum downlight.

FEATURES

Domed Fixture Housing (DDH) features a contemporary design and is easy to maintain. 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. Standard Matte White interior finish on reflectors.

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 as well as safety.

CONSTRUCTION

Housing constructed of extruded and machined aluminum to resist corrosion. Graphite gasket for optimal thermal management. Die-cast aluminum heat sink. Refractor made of cast UV stabilized acrylic. Reflector made of spun .060" aluminum.

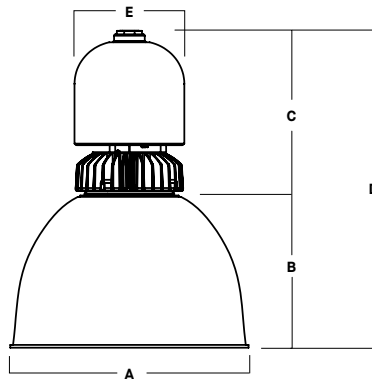
CODE COMPLIANCE

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.

QUICK SHIP

Quick Ship Surface highlights products that can ship in 5 - 10 working days.



Dimensioned with **PRISMATIC**

SHADES	A	B	C	D	E
PRISMATIC	16.2 411.48 mm	10.8 274.3 mm	11.6 294.6 mm	22.4 569.0 mm	7.5 190.5 mm
ALUMINUM	16.0 406.4 mm	10.5 266.7 mm	11.5 292.1 mm	22.0 558.8 mm	7.5 190.5 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
PRDDH16LX65L	7386	52	142
PRDDH16LX100L	10510	80	131
PRDDH16LX130L	13204	98	135
PRDDH16LX140L	13815	107	129

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

DLC LISTINGS	
FIXTURE CATALOG	DLC CLASSIFICATION
ALDDH16LX130L35KDS10X[MOUNTING]/AL16/MWI	STANDARD
ALDDH16LX130L40KDS10X[MOUNTING]/AL16/MWI	STANDARD
ALDDH16LX140L35KDS10X[MOUNTING]/AL16/MWI	STANDARD
ALDDH16LX140L40KDS10X[MOUNTING]/AL16/MWI	STANDARD
PRDDH16LX130L35KDS10X[MOUNTING]/DF16	PREMIUM
PRDDH16LX130L40KDS10X[MOUNTING]/DF16	PREMIUM
PRDDH16LX140L35KDS10X[MOUNTING]/DF16	PREMIUM
PRDDH16LX140L40KDS10X[MOUNTING]/DF16	PREMIUM

SERIES	LUMENS ¹	CCT	DRIVER / DIMMING ²	SAFETY OPTIONS ³	MOUNTING ⁴	SHADE	ENCLOSURE OPTIONS	OPTIONS	FINISH ¹⁴	MOUNTING OPTION ¹⁵
PRISMATIC PRDDH16LX	65L 7400 Lm 100L 10500 Lm 130L 13200 Lm 140L 13800 Lm 170L 16300 Lm 200L 18750 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 SC1 Safety Cable	HM ⁵ Hang Straight PM ⁵ Rigid Pendant CD ⁵ Cord / Cable Mount CD72 72" Cord / Cable Mount HC ^{5/6/7} Hook & Cord NM2 ^{8/7/8} 1/2" NPT Hub NM3 ^{8/7/8} 3/4" NPT Hub EM. BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	PRISMATIC PR16 16" Clear DF16 16" Diffuse OP16 16" Opal ALUMINUM AL16/MWI ⁹ Matte White Inside AL16/FCI ¹⁰ Fixture Color Inside	TF3 - 6" Frosted Diffuser (CANNOT BE USED WITH DR OPTION) ACCESSORIES DR16D ¹¹ 16" Spun Door BC16 16" Band Clamp RS16 ¹² 16" Refractor Shroud DR16DWAG ^{10/13} 16" Door with Wire Guard WAG16 ¹³ 16" Wire Guard LENS CNFR Conical Frosted Lens CN Conical Lens DL Drop Lens FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate None	SC2 Safety Cable Reflector to door	MW ¹⁶ Matte White MB ¹⁶ Matte Black PT ¹⁶ Platinum Silver CC Custom Color	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures
ALUMINUM ALDDH16LX										

GREEN TEXT INDICATES QUICK SHIP OPTIONS

EXAMPLE: ALDDH16LX100L35KEX/HM36/AL16/MWI/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 Reflector Finished Matte White with Finish Color Out 10 Same Finish as Housing 11 DR16D for ALDDH16LX 12 Same Finish as Housing / For Use with Prismatic Shades Only 13 No Color 14 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 15 Standard Finishes 16 Field Cuttable Mounting Kit only Available with HM Stem



PROJECT:

QUANTITY:

TYPE:



16" PRISMATIC & ALUMINUM
DDH SERIES



SERIES TYPE

ALUMINUM

BOTTOM VIEW



ALDDH16LX MATTE WHITE WITH TF3

PRISMATIC

BOTTOM VIEW



PRDDH16LX MATTE WHITE WITH TF3

STANDARD FINISHES

MW

MATTE WHITE



PRDDH16LX HM MATTE WHITE

MB

MATTE BLACK



PRDDH16LX HM MATTE BLACK

PT

PLATINUM SILVER



PRDDH16LX HM PLATINUM SILVER

MOUNTING TYPES

HM / PM

HANG STRAIGHT / PENDANT



PRDDH16LX SHOWN WITH PM

CD

CORD / CABLE MOUNT



PRDDH16LX SHOWN WITH CD

HC

HOOK CORD



PRDDH16LX SHOWN WITH HC

NM

NO MOUNT



PRDDH16LX 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

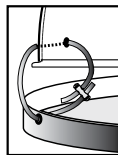
SC1 - Safety Cable

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

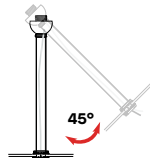
WAG16-16" Wire Guard



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)

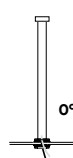
Custom Length

(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"

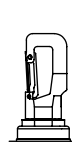
CDLC(XX)

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.

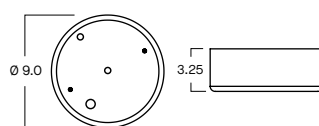
MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



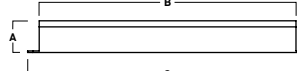
EMERGENCY BATTERY OPTIONS

EMCR - Large Driver Canopy For 10W Emergency Battery



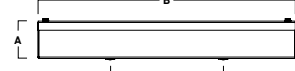
REMOTE EMERGENCY BATTERY OPTIONS

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

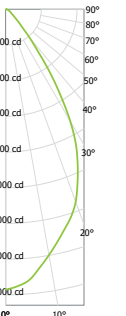


16" PRISMATIC

DDH 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	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2	RCR 4		
	0° 15698	0° - 20° 4980 36%	8'	245 fc	8.8'	83 fc	18'	12'	88	0.68	110	0.99
	5° 15222	0° - 30° 9269 67%	10'	157 fc	11.0'	53 fc	22'	14'	72	0.57	63	0.57
	15° 12753	0° - 40° 12000 87%	12'	109 fc	13.2'	37 fc	26'	18'	47	0.37	41	0.37
	25° 9542	0° - 60° 13304 96%	14'	80 fc	15.4'	27 fc	Delivered Illuminance Rating: (DIR)		128 FC per W/Sq. Ft.		111 FC per W/Sq. Ft.	
	35° 4331	0° - 80° 13656 99%	16'	61 fc	17.6'	21 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 * Exceeds Spacing Ratio by 12% *** Exceeds Spacing Ratio by 2%					
	45° 1051	0° - 90° 13687 99%	20'	39 fc	22.0'	13 fc						
	55° 394	Total 13815 100%	24'	27 fc	26.4'	9 fc						
	90° 22		28'	20 fc	30.8'	7 fc						
	Delivered Lumens: 13815 Luminaire Watts: 107 LER: 129.11											
CP at 0° (Nadir): 15698 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	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		
	0° 13518	0° - 20° 4353 35%	8'	211 fc	8.9'	71 fc	18'	12'	78	0.68	97	0.99	
	5° 13233	0° - 30° 8090 65%	10'	135 fc	11.1'	45 fc	22'	14'	65	0.57	56	0.57	
	15° 11172	0° - 40° 10495 84%	12'	94 fc	13.3'	31 fc	26'	18'	42	0.37	36	0.37	
	25° 8386	0° - 60° 11707 94%	14'	69 fc	15.5'	23 fc	Delivered Illuminance Rating: (DIR)		114 FC per W/Sq. Ft.		99 FC per W/Sq. Ft.		
	35° 3772	0° - 80° 12174 97%	16'	53 fc	17.7'	18 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 * Exceeds Spacing Ratio by 10% *** Exceeds Spacing Ratio by 1%						
	45° 947	0° - 90° 12281 98%	20'	34 fc	22.2'	11 fc							
	55° 369	Total 12492 100%	24'	23 fc	26.6'	8 fc							
	90° 63		28'	17 fc	31.0'	6 fc							
	Delivered Lumens: 12492 Luminaire Watts: 107 LER: 116.75												
CP at 0° (Nadir): 13518 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	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0° 8806	0° - 20° 3031 22%	8'	138 fc	10.8'	39 fc	18'	12'	80	0.68	95	0.99
	5° 8705	0° - 30° 6122 44%	10'	88 fc	13.5'	25 fc	22'	14'	66	0.57	54	0.57
	15° 7850	0° - 40° 8595 62%	12'	61 fc	16.2'	17 fc	26'	18'	43	0.37	35	0.37
	25° 6877	0° - 60° 10849 78%	14'	45 fc	18.9'	13 fc	Delivered Illuminance Rating: (DIR)		117 FC per W/Sq. Ft. 96 FC per W/Sq. Ft.			
	35° 3999	0° - 80° 12458 89%	16'	34 fc	21.6'	10 fc						
	45° 1523	0° - 90° 12965 93%	20'	22 fc	27.0'	6 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					
	55° 1182	Total 13934 100%	24'	15 fc	32.4'	4 fc						
	90° 385		28'	11 fc	37.8'	3 fc						
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									

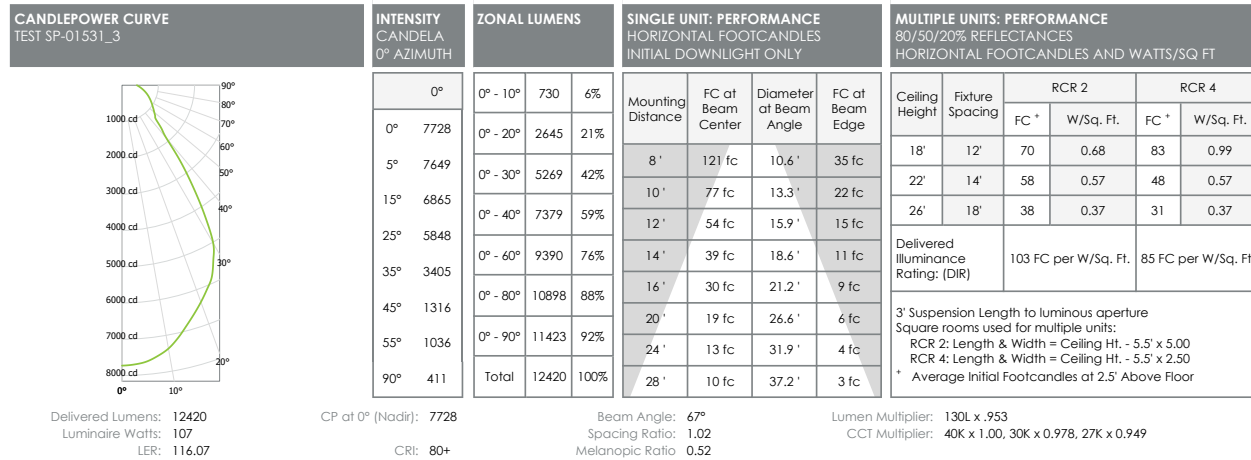


16" PRISMATIC

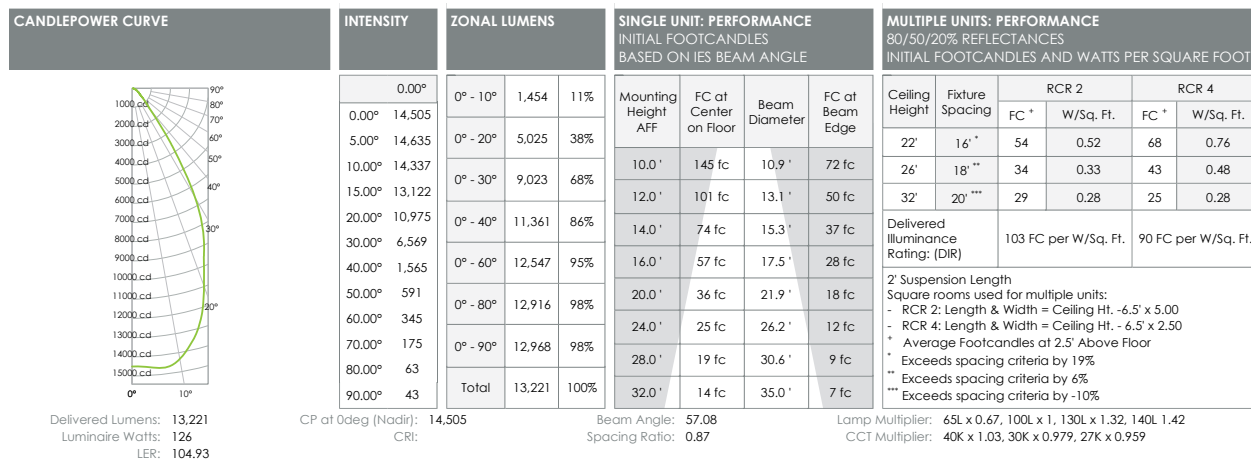
DDH SERIES / PHOTOMETRIC DATA



PRAF16LEDLX 140L 35K xx DF16 TF3 xx



PRxxx16LEDLX-140L-35K-E1-PR16



16" ALUMINUM

DDH SERIES / PHOTOMETRIC DATA



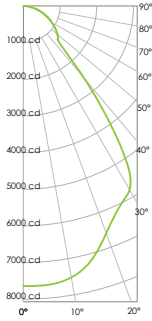
ALDDH16LEDLX 140L 35K xx AL16 MWI xx

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								
	0°	0° - 10° 767 7%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2	RCR 4		
	0° 8022	0° - 20° 2819 25%	8'	125 fc	11.6'	33 fc	18'	12'	70	0.68	84	0.99
	5° 7988	0° - 30° 5730 50%	10'	80 fc	14.5'	21 fc	22'	14'	57	0.57	48	0.57
	15° 7309	0° - 40° 8363 73%	12'	56 fc	17.3'	15 fc	26'	18'	37	0.37	31	0.37
	25° 6296	0° - 60° 10361 91%	14'	41 fc	20.2'	11 fc	Delivered Illuminance Rating: (DIR) 102 FC per W/Sq. Ft. 85 FC per W/Sq. Ft.					
	35° 4414	0° - 80° 11318 99%	16'	31 fc	23.1'	8 fc						
	45° 1312	0° - 90° 11382 100%	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					
	55° 978	Total 11400 100%	24'	14 fc	34.7'	4 fc						
	90° 3		28'	10 fc	40.5'	3 fc						
	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								
	0°	0° - 10° 674 7%	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2	RCR 4		
	0° 7117	0° - 20° 2470 24%	8'	111 fc	11.5'	30 fc	18'	12'	61	0.68	74	0.99
	5° 7053	0° - 30° 4986 49%	10'	71 fc	14.3'	19 fc	22'	14'	51	0.57	42	0.57
	15° 6403	0° - 40° 7278 72%	12'	49 fc	17.2'	13 fc	26'	18'	33	0.37	27	0.37
	25° 5460	0° - 60° 9158 91%	14'	36 fc	20.0'	10 fc	Delivered Illuminance Rating: (DIR) 90 FC per W/Sq. Ft. 75 FC per W/Sq. Ft.					
	35° 3740	0° - 80° 10008 99%	16'	28 fc	22.9'	7 fc						
	45° 1357	0° - 90° 10066 100%	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					
	55° 881	Total 10087 100%	24'	12 fc	34.4'	3 fc						
	90° 5		28'	9 fc	40.1'	2 fc						
	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							
	0.00°	0° - 10°	736	6%	Mounting Height Aff	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
	0.00° 7,638	0° - 20°	2,739	23%	10.0'	76 fc	15.0'	37 fc	22'	20' +	29	0.30	24	0.30
	5.00° 7,638	0° - 30°	5,572	48%	12.0'	53 fc	18.0'	26 fc	26'	22' "	18	0.19	15	0.19
	10.00° 7,520	0° - 40°	8,316	71%	14.0'	39 fc	21.0'	19 fc	32'	24' ***	17	0.17	20	0.25
	15.00° 7,177	0° - 60°	10,456	90%	16.0'	30 fc	24.0'	14 fc	Delivered Illuminance Rating: (DIR) 98 FC per W/Sq. Ft. 81 FC per W/Sq. Ft.					
	20.00° 6,600	0° - 80°	11,572	99%	20.0'	19 fc	30.0'	9 fc						
	30.00° 5,789	0° - 90°	11,669	100%	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% *** Exceeds spacing criteria by -1.7%					
	40.00° 2,585	Total	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													
	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										

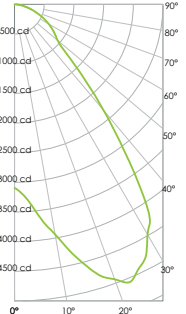


16" ALUMINUM

DDH 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																																																																																																																																	
	<table><tr><th>0.00°</th><td>0.00°</td><td>3,096</td></tr><tr><td>0.00°</td><td>3,096</td><td></td></tr><tr><td>5.00°</td><td>3,411</td><td></td></tr><tr><td>10.00°</td><td>3,935</td><td></td></tr><tr><td>15.00°</td><td>4,533</td><td></td></tr><tr><td>20.00°</td><td>4,932</td><td></td></tr><tr><td>30.00°</td><td>4,480</td><td></td></tr><tr><td>40.00°</td><td>2,353</td><td></td></tr><tr><td>50.00°</td><td>948</td><td></td></tr><tr><td>60.00°</td><td>664</td><td></td></tr><tr><td>70.00°</td><td>373</td><td></td></tr><tr><td>80.00°</td><td>134</td><td></td></tr><tr><td>90.00°</td><td>0</td><td></td></tr></table>	0.00°	0.00°	3,096	0.00°	3,096		5.00°	3,411		10.00°	3,935		15.00°	4,533		20.00°	4,932		30.00°	4,480		40.00°	2,353		50.00°	948		60.00°	664		70.00°	373		80.00°	134		90.00°	0		<table><tr><th>0° - 10°</th><td>352</td><td>4%</td></tr><tr><th>0° - 20°</th><td>1,640</td><td>19%</td></tr><tr><th>0° - 30°</th><td>3,889</td><td>44%</td></tr><tr><th>0° - 40°</th><td>6,080</td><td>69%</td></tr><tr><th>0° - 60°</th><td>7,937</td><td>91%</td></tr><tr><th>0° - 80°</th><td>8,708</td><td>99%</td></tr><tr><th>0° - 90°</th><td>8,766</td><td>100%</td></tr><tr><th>Total</th><td>8,766</td><td>100%</td></tr></table>	0° - 10°	352	4%	0° - 20°	1,640	19%	0° - 30°	3,889	44%	0° - 40°	6,080	69%	0° - 60°	7,937	91%	0° - 80°	8,708	99%	0° - 90°	8,766	100%	Total	8,766	100%	<table><tr><th>Mounting Height Aff</th><th>FC at Center on Floor</th><th>Beam Diameter</th><th>FC at Beam Edge</th></tr><tr><td>10.0' *</td><td>31 fc</td><td>16.3' *</td><td>15 fc</td></tr><tr><td>12.0' *</td><td>21 fc</td><td>19.6' *</td><td>10 fc</td></tr><tr><td>14.0' *</td><td>16 fc</td><td>22.8' *</td><td>7 fc</td></tr><tr><td>16.0' *</td><td>12 fc</td><td>26.1' *</td><td>6 fc</td></tr><tr><td>20.0' *</td><td>8 fc</td><td>32.6' *</td><td>4 fc</td></tr><tr><td>24.0' *</td><td>5 fc</td><td>39.2' *</td><td>3 fc</td></tr><tr><td>28.0' *</td><td>4 fc</td><td>45.7' *</td><td>2 fc</td></tr><tr><td>32.0' *</td><td>3 fc</td><td>52.2' *</td><td>1 fc</td></tr></table>	Mounting Height Aff	FC at Center on Floor	Beam Diameter	FC at Beam Edge	10.0' *	31 fc	16.3' *	15 fc	12.0' *	21 fc	19.6' *	10 fc	14.0' *	16 fc	22.8' *	7 fc	16.0' *	12 fc	26.1' *	6 fc	20.0' *	8 fc	32.6' *	4 fc	24.0' *	5 fc	39.2' *	3 fc	28.0' *	4 fc	45.7' *	2 fc	32.0' *	3 fc	52.2' *	1 fc	<table><tr><th>Ceiling Height</th><th>Fixture Spacing</th><th colspan="2">RCR 2</th><th colspan="2">RCR 4</th></tr><tr><td></td><td></td><th>FC *</th><th>W/Sq. Ft.</th><th>FC *</th><th>W/Sq. Ft.</th></tr><tr><td>22'</td><td>22' *</td><td>12</td><td>0.17</td><td>18</td><td>0.30</td></tr><tr><td>26'</td><td>24' **</td><td>14</td><td>0.19</td><td>11</td><td>0.19</td></tr><tr><td>32'</td><td>28' ***</td><td>8</td><td>0.11</td><td>7</td><td>0.11</td></tr></table> Delivered Illuminance Rating: (DIR) 73 FC per W/Sq. Ft. 60 FC per W/Sq. Ft. 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 -6% ** Exceeds spacing criteria by -18% *** Exceeds spacing criteria by -27%	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	22'	22' *	12	0.17	18	0.30	26'	24' **	14	0.19	11	0.19	32'	28' ***	8	0.11	7	0.11
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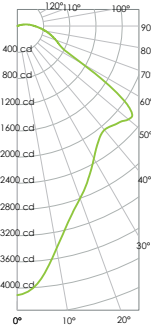
Delivered Lumens: 8,766
Luminaire Watts: 111.89
LER: 78.34

CP at 0deg (Nadir): 3,096
CRI: 85

Beam Angle: 78.35
Spacing Ratio: 1.51

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

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

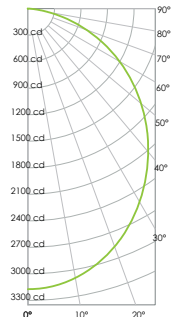
CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
	0.00°	0° - 10°	361	4%	<table><tr><th>Ceiling Height</th><th>Fixture Spacing</th><th colspan="2">RCR 2</th><th colspan="2">RCR 4</th></tr><tr><th>FC *</th><th>W/Sq. Ft.</th><th>FC *</th><th>W/Sq. Ft.</th></tr><tr><td>22'</td><td>12' *</td><td>47</td><td>0.67</td><td>37</td><td>0.67</td></tr><tr><td>26'</td><td>14' **</td><td>40</td><td>0.58</td><td>23</td><td>0.42</td></tr><tr><td>32'</td><td>16' ***</td><td>31</td><td>0.44</td><td>24</td><td>0.44</td></tr><tr><td colspan="2">Delivered Illuminance Rating: (DIR)</td><td colspan="2">70 FC per W/Sq. Ft.</td><td colspan="2">55 FC per W/Sq. Ft.</td></tr><tr><td colspan="6">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%</td></tr></table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	22'	12' *	47	0.67	37	0.67	26'	14' **	40	0.58	23	0.42	32'	16' ***	31	0.44	24	0.44	Delivered Illuminance Rating: (DIR)		70 FC per W/Sq. Ft.		55 FC per W/Sq. Ft.		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%					
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	0.00° 4,108	0° - 20°	1,224	13%																																									
	20.00° 2,800	0° - 30°	2,415	27%																																									
	40.00° 2,068	0° - 40°	3,779	42%																																									
	60.00° 1,133	0° - 60°	7,065	78%																																									
	80.00° 437	0° - 80°	8,395	92%																																									
90.00° 264	0° - 90°	8,774	96%																																										
100.00° 142	Total	9,106	100%																																										
110.00° 44																																													
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Delivered Lumens: 9,106
Luminaire Watts: 111.89
LER: 81.38

CP at 0deg (Nadir): 4,108
CRI: 85

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

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																																																																																																																																	
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20.0' *	8 fc	50.9' *	3 fc																																																																																																																																		
24.0' *	6 fc	61.0' *	2 fc																																																																																																																																		
28.0' *	4 fc	71.2' *	1 fc																																																																																																																																		
32.0' *	3 fc	81.4' *	1 fc																																																																																																																																		
Ceiling Height	Fixture Spacing	RCR 2		RCR 4																																																																																																																																	
		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																																																																																																																																
22'	20' *	19	0.30	15	0.30																																																																																																																																
26'	22' **	12	0.19	10	0.19																																																																																																																																
32'	24' ***	11	0.17	13	0.25																																																																																																																																

Delivered Lumens: 8,124
Luminaire Watts: 111.89
LER: 72.61

CP at 0deg (Nadir): 3,174
CRI: 85

Beam Angle: 103.61
Spacing Ratio: 1.18

Lamp Multiplier: 65L x 0.47, 100L 0.71, 130L x 0.93
CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959



16" ALUMINUM

DDH 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
	0.00° 0.00° 6.074 5.00° 6.015 10.00° 5.442 15.00° 4.652 20.00° 4.112 30.00° 3.260 40.00° 2.438 50.00° 1.654 60.00° 852 70.00° 425 80.00° 144 90.00° 0	0° - 10° 565 6% 0° - 20° 1,881 21% 0° - 30° 3,570 40% 0° - 40° 5,337 60% 0° - 60° 7,950 90% 0° - 80° 8,831 99% 0° - 90° 8,879 100% Total 8,879 100%	Mounting Height AFF FC at Center on Floor Beam Diameter FC at Beam Edge 10.0' 61 fc 12.7' 30 fc 12.0' 42 fc 15.2' 21 fc 14.0' 31 fc 17.8' 15 fc 16.0' 24 fc 20.3' 12 fc 20.0' 15 fc 25.4' 7 fc 24.0' 11 fc 30.5' 5 fc 28.0' 8 fc 35.6' 4 fc 32.0' 6 fc 40.7' 3 fc	Ceiling Height Fixture Spacing FC * W/Sq. Ft. RCR 2 FC * W/Sq. Ft. RCR 4 FC * W/Sq. Ft. Delivered Illuminance Rating: (DIR) 73 FC per W/Sq. Ft. 60 FC per W/Sq. Ft. 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%
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	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	

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
	0.00° 0.00° 6.421 5.00° 6.413 10.00° 6.310 15.00° 5.998 20.00° 5.500 30.00° 4.787 40.00° 1,854 50.00° 1,065 60.00° 733 70.00° 386 80.00° 95 90.00° 0	0° - 10° 618 7% 0° - 20° 2,291 24% 0° - 30° 4,657 50% 0° - 40° 6,743 72% 0° - 60° 8,537 91% 0° - 80° 9,350 100% 0° - 90° 9,380 100% Total 9,380 100%	Mounting Height AFF FC at Center on Floor Beam Diameter FC at Beam Edge 10.0' 64 fc 14.3' 31 fc 12.0' 45 fc 17.2' 22 fc 14.0' 33 fc 20.1' 16 fc 16.0' 25 fc 22.9' 12 fc 20.0' 16 fc 28.6' 8 fc 24.0' 11 fc 34.4' 5 fc 28.0' 8 fc 40.1' 4 fc 32.0' 6 fc 45.8' 3 fc	Ceiling Height Fixture Spacing FC * W/Sq. Ft. RCR 2 FC * W/Sq. Ft. RCR 4 FC * W/Sq. Ft. Delivered Illuminance Rating: (DIR) 79 FC per W/Sq. Ft. 66 FC per W/Sq. Ft. 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 1% *** Exceeds spacing criteria by -16%
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	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	

HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
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	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: $\text{Sq. Ft. / Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ - 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.: $W / \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

