



22" Mid/High Bay 13650 Lm

Decorative Arms



PRAF22LX

APPLICATION

22" Arc Pendant evokes industrial age designs while using the latest LED technology for excellent general illumination. Prismatic refractor provides horizontal and vertical distribution. Laser cut decorative arm.

FEATURES

Extruded Fixture Housing (EXT). Single-stage optical system for smooth light distribution. LED module and driver designed for ease of maintenance and replacement. Optional safety cable. Variety of 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

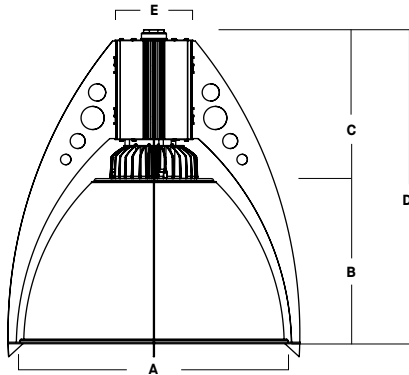
LED system features high brightness white Nichia LEDs. 3-step MacAdam Ellipse binning. Standard CRI: 80+. Higher CRI, R9 and custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers. LED module is 2 circuit with 2 drivers for multicircuit option.

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. ARC pendant arms and deco ring are laser cut 5052 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.



A	B	C	D	E
24.4	12.3	10.6	22.9	6.5
619.8 mm	312.4 mm	269.2 mm	581.7 mm	165.1 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
PRAF22LX65L	7105	52	137
PRAF22LX100L	10079	80	126
PRAF22LX130L	12906	98	132
PRAF22LX140L	13659	107	128

¹ Nominal Delivered Lumens at 35K with PR22AFPMW

SERIES	LUMENS ¹	CCT	DRIVER / DIMMING ²	SAFETY OPTIONS ³	MOUNTING ⁴	REFRACTOR	ENCLOSURE OPTION	TIER OPTIONS	OPTIONS	FINISH ¹⁰	MOUNTING OPTION ¹²
PRAF22LX	65L 7100 Lm 100L 10100 Lm 130L 12900 Lm 140L 13650 Lm	27K 2700K 30K 3000K 35K 3500K 40K 4000K	EX Electronic Driver, 120V/277V DS10X 10%, 0-10V, 120V/277V DO10X 1%, 10-0V, 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} 1/2" NPT Hub NM3 ^{6/7/8} 3/4" NPT Hub EMERGENCY BATTERY OPTIONS EMIT 7W Emergency Battery Test Switch EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	DF22 22" Diffuse PR22 22" Clear	TF3 6" Frosted Diffuser	AFPF ⁹ Aluminum Fins w/ Decorative Perforations and 1-Metal Tier Ring AFSP ⁹ Aluminum Decorative Arm with Slots and 1-Metal Tier Ring	SC2 Safety Cable Reflector to door	MW ¹¹ Matte White MB ¹¹ Matte Black PT ¹¹ Platinum Silver CC Custom Color	FCHMA ¹² Field Cuttable Mounting Kit for Hang Mount Fixtures

EXAMPLE: PRAF22LX100L35KEX/CD36/PR22/AFPF/MW

NOTES:
¹ Nominal Delivered Lumens at 35K with PR22AFPMW 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 Fins and Tier Ring to Match Fixture Finish ¹⁰ Reference Color Sheet Located on Product Webpage for Full List of Available Colors.
¹¹ Standard Finishes ¹² Field Cuttable Mounting Kit only Available with HM Stem



PROJECT: _____
 QUANTITY: _____ TYPE: _____



22" PRISMATIC
AF SERIES / FIXTURE OPTIONS



STANDARD FINISHES

MW
MATTE WHITE



MB
MATTE BLACK

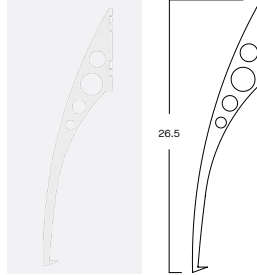


PT
PLATINUM SILVER

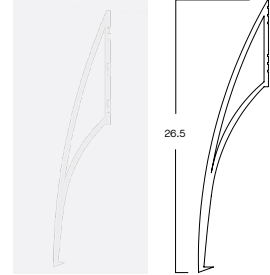


DECORATIVE ARMS

AFPF
LASER CUT DECO ARM WITH HOLES



AFSF
LASER CUT DECO ARM WITH SLOTS



MOUNTING TYPES

HM / PM
HANG STRAIGHT / PENDANT



PRAF22LX SHOWN WITH PM

CD
CORD / CABLE MOUNT



PRAF22LX SHOWN WITH CD

HC
HOOK CORD



PRAF22LX SHOWN WITH HC

NM
NO MOUNT



PRAF22LX 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

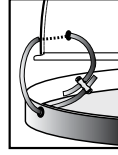
SC1 - Safety Cable

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.



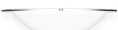
SC2 - Safety Cable, Refractor to Door

1/16" Stainless steel cable holds door to fixture



ENCLOSURES

TF3 - 6" Frosted Diffuser



OPTIONS

DECORATIVE ARMS

AFPF-Aluminum Fins w/ Decorative Perforations and 1-Metal Tier Ring



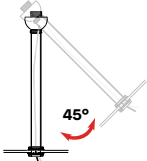
AFSF-Aluminum Decorative Arm with Slots and 1-Metal Tier Ring



MOUNTING TYPES

HM* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

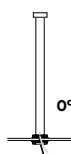


ORDER: **HM** (Length)
SPECIFY LENGTH:
HM3 - 3" **HM24** - 24"
HM6 - 6" **HM36** - 36"
HM12 - 12" **HM48** - 48"
HM18 - 18" **HM72** - 72"
HMLC(XX)
Custom Length
(Specify in Inches)

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.

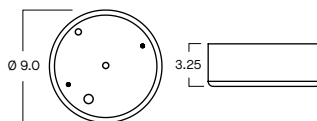
MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



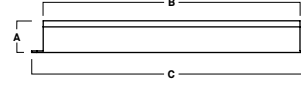
EMERGENCY BATTERY OPTIONS

EMCR - Large Driver Canopy For 10W Emergency Battery



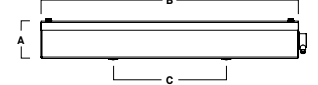
REMOTE EMERGENCY BATTERY OPTIONS

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



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



22" PRISMATIC

AF SERIES / PHOTOMETRIC DATA



PRAF22LEDLX 140L 35K xx DF22 xx

CANDLEPOWER CURVE TEST SP-01544_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																																																																
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5° 8601	0° - 30° 6248 46%	10' 85 fc 14.6' 22 fc	22' 14' 52 0.45 62 0.64																																																																	
15° 8260	0° - 40° 9096 67%	12' 59 fc 17.5' 15 fc	26' 16' 47 0.41 39 0.41																																																																	
25° 6914	0° - 60° 10983 81%	14' 43 fc 20.5' 11 fc	Delivered Illuminance Rating: (DIR) 116 FC per W/Sq. Ft. 96 FC per W/Sq. Ft.																																																																	
35° 4980	0° - 80° 12221 90%	16' 33 fc 23.4' 9 fc																																																																		
45° 1171	0° - 90° 12628 93%	20' 21 fc 29.2' 6 fc	4' Suspension Length to luminous aperture 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 Initial Footcandles at 2.5' Above Floor																																																																	
55° 927	Total 13592 100%	24' 15 fc 35.1' 4 fc																																																																		
90° 316		28' 11 fc 40.9' 3 fc																																																																		
Delivered Lumens: 13592 Luminaire Watts: 107 LER: 127.03	CP at 0° (Nadir): 8482 CRI: 80+	Beam Angle: 72° Spacing Ratio: 1.09 Melanopic Ratio 0.55	Lumen Multiplier: 130L x .930 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949																																																																	

PRAF22LEDLX 140L 35K xx DF22 TF3 xx

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PRAF22LEDLX 140L 35K xx PR22 xx

CANDLEPOWER CURVE TEST SP-01499_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																																																																
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0° 10812	0° - 20° 4616 34%	8' 169 fc 9.5' 54 fc	18' 12' 101 0.81 56 0.52																																																																	
5° 11386	0° - 30° 8927 65%	10' 108 fc 11.9' 34 fc	22' 14' 56 0.45 69 0.64																																																																	
15° 12769	0° - 40° 11598 85%	12' 75 fc 14.3' 24 fc	26' 16' 51 0.41 44 0.41																																																																	
25° 9738	0° - 60° 12794 94%	14' 55 fc 16.7' 17 fc	Delivered Illuminance Rating: (DIR) 125 FC per W/Sq. Ft. 108 FC per W/Sq. Ft.																																																																	
35° 4295	0° - 80° 13140 96%	16' 42 fc 19.1' 13 fc																																																																		
45° 824	0° - 90° 13229 97%	20' 27 fc 23.9' 9 fc	4' Suspension Length to luminous aperture 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 Initial Footcandles at 2.5' Above Floor																																																																	
55° 463	Total 13659 100%	24' 19 fc 28.6' 6 fc																																																																		
90° 78		28' 14 fc 33.4' 4 fc																																																																		
Delivered Lumens: 13659 Luminaire Watts: 107 LER: 127.65	CP at 0° (Nadir): 10812 CRI: 80+	Beam Angle: 62° Spacing Ratio: 1.06 Melanopic Ratio 0.55	Lumen Multiplier: 130L x .945 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949																																																																	



22" PRISMATIC

AF SERIES / PHOTOMETRIC DATA



PRAF22LEDLX 140L 35K xx PR22 TF3 xx

CANDLEPOWER CURVE TEST SP-01520_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																																																																						
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0° 10513	0° - 20° 4069 33%	<p>Beam Angle: 61° Spacing Ratio: 1.01 Melanopic Ratio: 0.52</p>	<p>Lumen Multiplier: 130L x .945 CCT Multiplier: 40K x 1.00, 30K x 0.978, 27K x 0.949</p>																																																																							
5° 10628	0° - 30° 7772 64%																																																																									
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35° 3788	0° - 80° 11587 95%																																																																									
45° 753	0° - 90° 11724 96%																																																																									
55° 439	Total 12162 100%																																																																									
90° 106																																																																										

Delivered Lumens: 12162
Luminaire Watts: 107
LER: 113.66

CP at 0° (Nadir): 10513
CRI: 80+

PRxxx22LX-140L-35K-EX-DF22

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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0.00° 7,914	0° - 20° 2,974 21%	<p>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</p>																																																						
20.00° 7,314	0° - 30° 6,050 43%																																																							
40.00° 2,734	0° - 40° 9,018 63%																																																							
60.00° 856	0° - 60° 10,965 77%																																																							
80.00° 486	0° - 80° 12,315 87%																																																							
90.00° 352	0° - 90° 12,767 90%																																																							
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Delivered Lumens: 14,229
Luminaire Watts: 126
LER: 112.93

CP at 0deg (Nadir): 7,914
CRI: 85+

PRxxx22LEDLX-140L-35K-E1-XXXX-PR22

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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0.00° 9,341	0° - 20° 4,060 33%	<p>Lamp Multiplier: 65L x 0.67, 100L x 1, 130L x 1.32, 140L x 1.42 CCT Multiplier: 40K x 1.03, 30K x 0.98, 27K x 0.96</p>																																																						
20.00° 10,049	0° - 30° 7,872 65%																																																							
40.00° 1,737	0° - 40° 10,281 84%																																																							
60.00° 221	0° - 60° 11,264 92%																																																							
80.00° 107	0° - 80° 11,542 95%																																																							
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Delivered Lumens: 12,193
Luminaire Watts: 126
LER: 96.77

CP at 0deg (Nadir): 9,341
CRI: 85

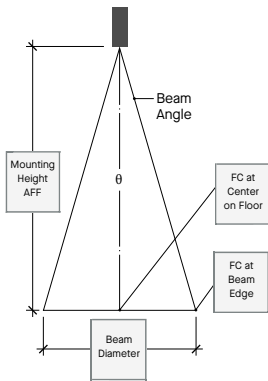


22" PRISMATIC

AF SERIES / PHOTOMETRIC DATA

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.

$$FC_{ii} = CP \times (\cos \theta) \div D^2$$

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

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

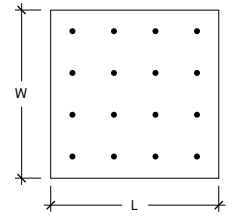
MULTIPLE UNITS

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:
 $\text{Sq. Ft. / Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$



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