



16" Low/Mid/High Bay 12800 Lm

Wide Distribution



PR1605LX

APPLICATION

16" Lumen Max LX Series high bay for wide area lighting in retail, gymnasiums, and open office areas.

FEATURES

PR1605LX single-stage optical system features smooth wide distribution. LED module and driver designed for ease of maintenance and replacement. Variety of mounting methods. Emergency battery backup option. Optional Safety Cable. See PR2405 and PR3005 for 24" and 30" options.

FINISH

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

ELECTRONICS

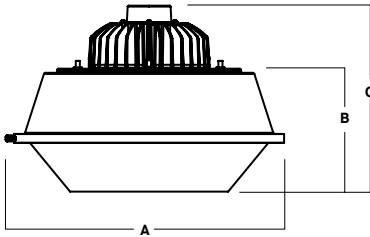
LED module features high brightness white Nichia LEDs. 3-step MacAdam Ellipse binning and CRI 80 minimum. Higher CRI, R9 and custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming devices. Dual voltage 120V/277V drivers standard. LED module is 2 circuit with 2 drivers for multicircuit option as well as safety.

CONSTRUCTION

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

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
16.4 416.6 mm	7.5 190.5 mm	11.0 279.4 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
PR1605LX65L	6018	56.2	107
PR1605LX100L	9020	81.1	111
PR1605LX130L	11882	103.9	114
PR1605LX140L	12777	109.1	117

¹ Nominal Delivered Lumens 35K at 80 CRI

SERIES	LUMENS ¹	CCT	DRIVER / DIMMING ²	OPTIONS ³	MOUNTING ⁴	FINISH ⁷	MOUNTING OPTION ⁹	
PR1605LX	65L	6000 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 WG16 16" Wire Guard SC1 Safety Cable	CP113 ⁵ Driver Compartment with Leads HM ⁶ Hang-Straight PM ⁶ Rigid Pendant Mount CD3X ⁶ 3 Cable Mount with Cord	MW ⁸ Matte White MB ⁸ Matte Black PT ⁸ Platinum Silver CC Custom Color	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures
	100L	9000 Lm	30K 3000K					
	130L	11900 Lm	35K 3500K					
	140L	12800 Lm	40K 4000K					
EMERGENCY BATTERY OPTIONS								
					EMRM 7W Remote EM EMEN 7W Remote with Enclosure			

EXAMPLE: PR1605LX130L35KEX/CP113CD3×36/MW

NOTES:
¹ Nominal Delivered Lumens 35K at 80 CRI ² Contact Factory for Additional Options ³ See Product Options Page for Details ⁴ See Mounting Page for Details on Components and Finishes ⁵ CP113 Required ⁶ Specify Length in Inches: See Mounting Page for Available Lengths ⁷ Reference Color Sheet Located on Product Webpage for Full List of Available Colors ⁸ Standard Finishes ⁹ Field Cuttable Mounting Kit only Available with HM Stem



PROJECT: _____
 QUANTITY: _____ TYPE: _____



16" PRISMATIC DISC

DISCO SERIES / FIXTURE OPTIONS



STANDARD FINISHES

MW
MATTE WHITE



MB
MATTE BLACK

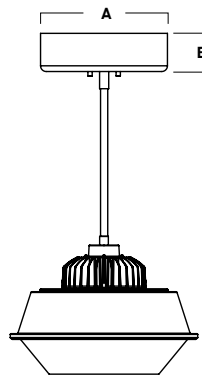


PT
PLATINUM SILVER



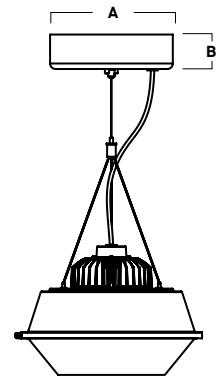
MOUNTING TYPES

HM / PM
HANG STRAIGHT / PENDANT



A	B
11.1	3.3
281.9 mm	84.8 mm

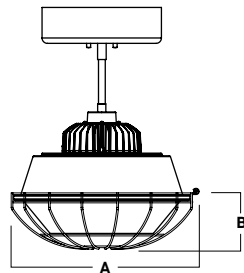
CD3X
3X CORD / CABLE MOUNT



A	B
11.1	3.3
281.9 mm	84.8 mm

ACCESSORIES

WG16
WIRE GUARD



A	B
17.2	5.5
436.9 mm	139.7 mm



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.



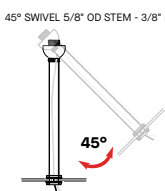
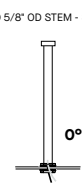
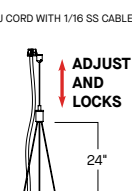

SAFETY CABLE OPTIONS

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.



MOUNTING TYPES

<p>HM* - Hang Straight</p> <p>45° SWIVEL 5/8" OD STEM - 3/8" IP</p>  <p>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.</p>	<p>PM* - Rigid Pendant Mount</p> <p>RIGID 5/8" OD STEM - 3/8" IP</p>  <p>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)</p>	<p>CD3X - Cord / Cable Mount</p> <p>SJ CORD WITH 1/16 SS CABLE</p>  <p>ORDER: CDX3 (Length) SPECIFY LENGTH: CD3x36 - 36" CD3x72 - 72" CD3x144 - 144" CDLC3X(XX) Custom Length (Specify in Inches)</p>
<p>*MAXIMUM ONE PIECE STEM LENGTH IS 72". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.</p> 		

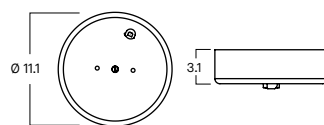
MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



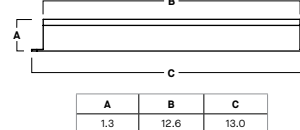
CEILING MOUNT CANOPY

CP113 - Driver Compartment with Leads (REQUIRED)

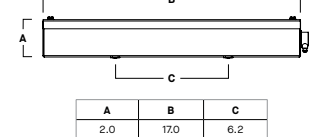


REMOTE EMERGENCY BATTERY OPTIONS

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 DISC

DISCO SERIES / PHOTOMETRIC DATA



PR1605LX140L35KEX

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																		
<p>Delivered Lumens: 12,774 Luminaire Watts: 109.1 LER: 117.09</p>	0.00°	0° - 10° 347 3%	Mounting Height AFF	Ceiling Height																		
	0.00° 3,875	0° - 20° 1,166 9%	FC at Center on Floor	Fixture Spacing																		
	5.00° 3,716	0° - 30° 2,286 18%	Beam Diameter	FC + W/Sq. Ft.	RCR 2																	
	10.00° 3,363	0° - 40° 3,724 29%	FC at Beam Edge	FC + W/Sq. Ft.	RCR 4																	
	15.00° 2,929	0° - 60° 7,631 60%																				
	20.00° 2,589	0° - 80° 11,861 93%																				
	30.00° 2,346	0° - 90° 12,366 97%																				
	40.00° 2,200	Total 12,774 100%																				
	50.00° 2,217																					
	60.00° 2,595																					
	70.00° 2,200																					
	80.00° 998																					
90.00° 231																						
	CP at 0deg (Nadir): 3,875 CRI: 80	Beam Angle: 147.42 Spacing Ratio: 0.83	Lamp Multiplier: 65L x 0.47, 100L x 0.71, 130L x 0.93 CCT Multiplier: 27K x 0.47, 30K x 0.45, 35K x 0.41, 40K x 0.39	<table border="1"> <tr> <td>22'</td> <td>12'</td> <td>61</td> <td>0.65</td> <td>45</td> <td>0.65</td> </tr> <tr> <td>26'</td> <td>14'</td> <td>52</td> <td>0.56</td> <td>29</td> <td>0.41</td> </tr> <tr> <td>32'</td> <td>16'</td> <td>40</td> <td>0.43</td> <td>30</td> <td>0.43</td> </tr> </table> <p>Delivered Illuminance Rating: (DIR) 93 FC per W/Sq. Ft. 69 FC per W/Sq. Ft.</p> <p>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 -7% ** Exceeds spacing criteria by -14% *** Exceeds spacing criteria by -24%</p>	22'	12'	61	0.65	45	0.65	26'	14'	52	0.56	29	0.41	32'	16'	40	0.43	30	0.43
22'	12'	61	0.65	45	0.65																	
26'	14'	52	0.56	29	0.41																	
32'	16'	40	0.43	30	0.43																	

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. = 1/2 Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> - 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 	<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"> - 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: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <ul style="list-style-type: none"> - 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.: $\text{W/ Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

