



# 16" Low/Mid Bay 6050 Lm

## 4X Medium Base Sockets



### PRDDH16INC4X

#### APPLICATION

16" Lumen Max series performance pendant for low and mid-bay applications. Prismatic refractor provides horizontal and vertical distribution.

#### FEATURES

Domed Fixture Housing (DDH) features a contemporary design that is easy to maintain. Optional safety cable. Variety of optical lenses and mounting methods.

#### FINISH

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

#### ELECTRONICS

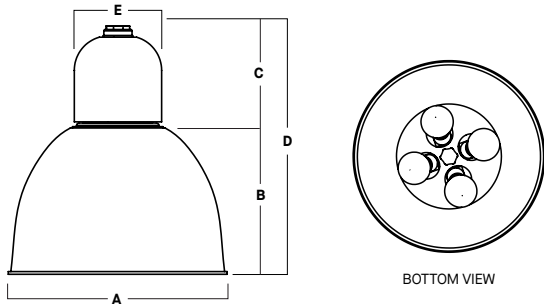
Medium base incandescent socket. Max wattage 100W.

#### CONSTRUCTION

Spun aluminum housing with die-cast aluminum and mounting hub. 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	D	E
16.0	11.0	7.0	18.0	6.5
406.4 mm	279.4 mm	177.8 mm	457.2 mm	165.1 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
PRDDH16INC4X	6043	72	84

SERIES	SAFETY OPTIONS <sup>2</sup>	MOUNTING <sup>3</sup>	SHADE	ENCLOSURE OPTIONS		OPTIONS	FINISH <sup>9</sup>	MOUNTING OPTION <sup>11</sup>						
PRDDH16INC4X	SC1 Safety Cable	HM <sup>4</sup> Hang Straight PM <sup>4</sup> Rigid Pendant CD <sup>4</sup> Cord / Cable Mount HC <sup>4/5</sup> Hook and Cord NM2 <sup>5/6</sup> 1/2" Hub NM3 <sup>5/6</sup> 3/4" Hub	PR16 16" Clear Prismatic OP16 16" Opal Etch DF16 16" Diffuse	ACCESSORIES		SC2 Safety Cable, Refractor to Door	MW <sup>9</sup> Matte White MB <sup>9</sup> Matte Black PT <sup>9</sup> Platinum Silver CC Custom Color	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures						
				DR16D <sup>7</sup> 16" Spun Door	BC16 16" Band Clamp				LENS					
				RS16 <sup>7</sup> 16" Refractor Shroud					CNFR Conical Frosted Lens	CN Conical Lens	DL Drop Lens	FO White Optical Acrylic	PP Prismatic Polycarbonate	PC Clear Polycarbonate
				DR16DWAG <sup>7/8</sup> 16" Door with Wire Guard					FO White Optical Acrylic	PP Prismatic Polycarbonate	PC Clear Polycarbonate			
				WAG16 <sup>9</sup> 16" Wire Guard		None								

**EXAMPLE:** PRDDH16INC4X/HM36/PR16/MW

**NOTES:**  
 1 Nominal Delivered Lumens 2 See Product Options Page For Details 3 See Mounting Page for Details on Components and Finishes 4 Specify Length in Inches: See Mounting Page for Available Lengths 5 Mounting Supplied by Others  
 6 12" Leads Unless Specified 7 Same Finish as Housing 8 No Color 9 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 10 Standard Finishes 11 Field Cuttable Mounting Kit only Available with HM Stem



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



# 16" PRISMATIC

## DDH SERIES / FIXTURE OPTIONS



### STANDARD FINISHES

**MW**  
MATTE WHITE



**MB**  
MATTE BLACK



**PT**  
PLATINUM SILVER



### MOUNTING TYPES

**HM / PM**  
HANG STRAIGHT / PENDANT



PRDDH16INC4X SHOWN WITH PM

**CD**  
CORD / CABLE MOUNT



PRDDH16INC4X SHOWN WITH CD

**HC**  
HOOK CORD



PRDDH16INC4X SHOWN WITH HC

**NM**  
NO MOUNT



PRDDH16INC4X SHOWN WITH NM


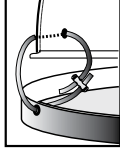


# MOUNTING & ACCESSORIES






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.



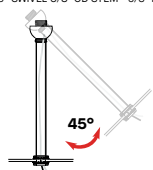
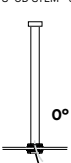

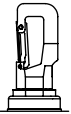

## SAFETY CABLE OPTIONS

<p><b>SC1 - Safety Cable</b></p> <p>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.</p> 	<p><b>SC2 - Safety Cable, Refractor to Door</b></p> <p>1/16" Stainless steel cable holds door to fixture</p> 
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## OPTIONS

<p><b>DOOR</b></p> <p><b>DR16D</b>-16" Spun Door  <b>BC16</b>-16" Band Clamp  <b>RS16</b>-16" Refractor Shroud</p>  <p>DR16D SHOWN WITH CN</p>	<p><b>LENSES</b></p> <p><b>CNFR</b>-Conical Frosted Lens  <b>CN</b>-Conical Lens  <b>DL</b>-Drop Lens  <b>FO</b>-White Optical Acrylic  <b>PP</b>-Prismatic Polycarbonate  <b>PC</b>-Clear Polycarbonate</p>  <p>DR16D SHOWN WITH CN</p>	<p><b>DOOR &amp; GUARD</b></p> <p><b>DR16DWAG</b>-16" Door with Wire Guard</p>  <p>DR16DWAG SHOWN WITH FO</p>	<p><b>LENSES</b></p> <p><b>FO</b>-White Optical Acrylic  <b>PP</b>-Prismatic Polycarbonate  <b>PC</b>-Clear Polycarbonate</p>  <p>DR16DWAG SHOWN WITH FO</p>	<p><b>GUARD OPTION</b></p> <p><b>WAG16</b>-16" Wire Guard</p> 
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## MOUNTING TYPES

<p><b>HM*</b> - Hang Straight</p> <p>45° SWIVEL 5/8" OD STEM - 3/8" IP</p>  <p>ORDER: <b>HM</b> (Length)          SPECIFY LENGTH:  <b>HM3</b> - 3"    <b>HM24</b> - 24"  <b>HM6</b> - 6"    <b>HM36</b> - 36"  <b>HM12</b> - 12"    <b>HM48</b> - 48"  <b>HM18</b> - 18"    <b>HM72</b> - 72"  <b>HMLC(XX)</b>          Custom Length          (Specify in Inches)</p> <p>TO TRIM HM STEM IN FIELD ORDER FCHMA KIT.</p>	<p><b>PM*</b> - Ridgid Pendant Mount</p> <p>RIGID 5/8" OD STEM - 3/8" IP</p>  <p>ORDER: <b>PM</b> (Length)          SPECIFY LENGTH:  <b>PM3</b> - 3"    <b>PM24</b> - 24"  <b>PM6</b> - 6"    <b>PM36</b> - 36"  <b>PM12</b> - 12"    <b>PM48</b> - 48"  <b>PM18</b> - 18"    <b>PM72</b> - 72"  <b>PMLC(XX)</b>          Custom Length          (Specify in Inches)</p>	<p><b>CD</b> - Cord / Cable Mount</p> <p>SJ CORD WITH 1/16 SS CABLE</p>  <p>ORDER: <b>CD</b> (Length)          SPECIFY LENGTH:  <b>CD36</b> - 36"  <b>CD72</b> - 72"  <b>CD144</b> - 144"  <b>CDLC(XX)</b>          Custom Length          (Specify in Inches)</p>	<p><b>HC</b> - Hook &amp; Cord</p> <p>FOR INDEPENDENT MOUNTING</p>  <p>ORDER: <b>HC</b> (Length)          SPECIFY LENGTH:  <b>HC36</b> - 36"  <b>HC72</b> - 72"  <b>HC144</b> - 144"  <b>HCLC(XX)</b>          Custom Length          (Specify in Inches)</p>	<p><b>NM2</b> - 1/2" NPT Hub  <b>NM3</b> - 3/4" NPT Hub</p> <p>FOR INDEPENDENT MOUNTING</p>  <p>ORDER: <b>NMX</b> (Length)          SPECIFY LENGTH:  <b>NM2(12)</b> - 12" Leads are Standard  <b>NM3(12)</b> - 12" Leads are Standard  <b>NMXLC(XX)</b>          Custom Length          (Specify in Inches)</p>
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\*MAXIMUM ONE PIECE STEM LENGTH IS 72". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

## MOUNTING OPTION

<p><b>FCHMA</b> - Field Cuttable Mounting Kit For Hang Mount Fixtures</p> 
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# 16" PRISMATIC

## DDH SERIES / PHOTOMETRIC DATA



PRDDH16INC4X-CD120-DF16-MW

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°	90	1%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>6'</td> <td>138</td> <td>2.12</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>8'</td> <td>62</td> <td>0.94</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>10'</td> <td>62</td> <td>0.94</td> <td>30</td> <td>0.53</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	8'	6'	138	2.12	120	2.12	8'	8'	62	0.94	120	2.12	8'	10'	62	0.94	30	0.53
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	0.00° 925	0° - 20°	361	6%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>6'</td> <td>138</td> <td>2.12</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>8'</td> <td>62</td> <td>0.94</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>10'</td> <td>62</td> <td>0.94</td> <td>30</td> <td>0.53</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	8'	6'	138	2.12	120	2.12	8'	8'	62	0.94	120	2.12	8'	10'	62	0.94	30	0.53
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40.00° 1,028	0° - 40°	1,481	25%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>6'</td> <td>138</td> <td>2.12</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>8'</td> <td>62</td> <td>0.94</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>10'</td> <td>62</td> <td>0.94</td> <td>30</td> <td>0.53</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	8'	6'	138	2.12	120	2.12	8'	8'	62	0.94	120	2.12	8'	10'	62	0.94	30	0.53	
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80.00° 435	0° - 80°	4,031	67%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>6'</td> <td>138</td> <td>2.12</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>8'</td> <td>62</td> <td>0.94</td> <td>120</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>10'</td> <td>62</td> <td>0.94</td> <td>30</td> <td>0.53</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	8'	6'	138	2.12	120	2.12	8'	8'	62	0.94	120	2.12	8'	10'	62	0.94	30	0.53	
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110.00° 372	Delivered Illuminance Rating: (DIR)			65 FC per W/Sq. Ft.	57 FC per W/Sq. Ft.																												
120.00° 339	2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 * Average Footcandles at 2.5' Above Floor ** Exceeds spacing criteria by 3% *** Exceeds spacing criteria by 38%																																
140.00° 40	Lamp Multiplier: 1.0 for 18W CCT Multiplier: 1.0 for 30K																																
160.00° 13	Mounting Height AFF																																
180.00° 11	FC at Center on Floor																																

Delivered Lumens: 6,043  
Luminaire Watts: 72  
LER: 83.93

CP at 0deg (Nadir): 925  
CRI: 80

PRDDH16INC4X-CD120-DF16-CN-MW

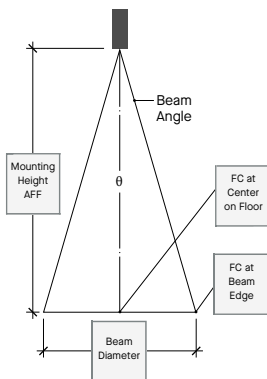
CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																													
	0.00°	0° - 10°	71	1%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>6'</td> <td>123</td> <td>2.12</td> <td>106</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>8'</td> <td>55</td> <td>0.94</td> <td>106</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>10'</td> <td>55</td> <td>0.94</td> <td>27</td> <td>0.53</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	8'	6'	123	2.12	106	2.12	8'	8'	55	0.94	106	2.12	8'	10'	55	0.94	27	0.53
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90.00° 428	0° - 90°	3,765	67%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>8'</td> <td>6'</td> <td>123</td> <td>2.12</td> <td>106</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>8'</td> <td>55</td> <td>0.94</td> <td>106</td> <td>2.12</td> </tr> <tr> <td>8'</td> <td>10'</td> <td>55</td> <td>0.94</td> <td>27</td> <td>0.53</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	8'	6'	123	2.12	106	2.12	8'	8'	55	0.94	106	2.12	8'	10'	55	0.94	27	0.53	
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110.00° 430	Delivered Illuminance Rating: (DIR)			58 FC per W/Sq. Ft.	50 FC per W/Sq. Ft.																												
120.00° 404	2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 * Average Footcandles at 2.5' Above Floor ** Exceeds spacing criteria by 10% *** Exceeds spacing criteria by 47%																																
140.00° 80	Lamp Multiplier: 1.0 for 18W CCT Multiplier: 1.0 for 30K																																
160.00° 9	Mounting Height AFF																																
180.00° 10	FC at Center on Floor																																

Delivered Lumens: 5,581  
Luminaire Watts: 72  
LER: 77.51

CP at 0deg (Nadir): 735  
CRI: 80

### 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<sub>H</sub> Footcandles, Horizontal
- Beam Angle Cone of light to 50% max. CP
- Beam Diam. Pattern of light at Beam Angle

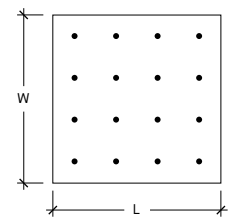
#### MULTIPLE UNITS

Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' 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.:  
 $W/ \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

