



# 12" Lowbay 2500 Lm

## Soft View Optical Lens



### DDS12

#### APPLICATION

12" Lumen Max DDS series performance pendant for low and mid-bay applications. Prismatic refractor provides horizontal and vertical light distribution. Aluminum reflector is designed for maximum downlight with capability to customize with shade colors.

#### FEATURES

Domed fixture housing (DDS) blends seamlessly with modern environments. Single-stage optical system for smooth light distribution. Optional integral LED diffusion lens (TF1) available for maximum visual comfort. LED module and driver designed for ease of maintenance and replacement. Optional safety cable, variety of optical lenses, enclosures, and mounting methods available.

#### 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

Light engine features high brightness white LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80/90. Custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers.

#### CONSTRUCTION

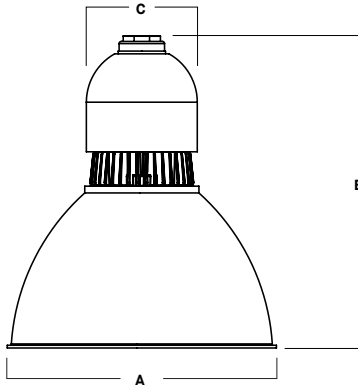
Housing constructed of spun and machined aluminum. Die-cast aluminum heat sink. Reflector made of spun .060" aluminum. Refractor made of cast UV stabilized acrylic.

#### 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.

#### QUICK SHIP

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



A	B	C
12.4	16.3	5.1
315.0 mm	414.0 mm	129.5 mm

Dimensioned with **PRISMATIC**

Fixture Weight: 7.4 lbs

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
DDS12GV15L	1132	10.8	105
DDS12GV27L	1920	19.2	100
DDS12GV35L	2524	27	93

<sup>1</sup> Nominal Delivered Lumens with 35K-TF1-DF12

SERIES	LUMENS <sup>1</sup>	CCT	DRIVER / DIMMING <sup>2</sup>	SAFETY OPTIONS <sup>4</sup>	MOUNTING <sup>5</sup>	SHADE	ENCLOSURE OPTIONS	OPTIONS	FINISH <sup>14</sup>	MOUNTING OPTION <sup>16</sup>	
<b>DDS12GV</b>	<b>15L</b> 1150 Lm	80 CRI	<b>EX</b> Electronic Driver, 120V/277V <b>DX</b> 1% 0-10V, 120V/277V <b>DS2W1<sup>1</sup></b> ELV/TRIAC, 120V	<b>TF1</b> 3" Frosted Dome <b>MF1</b> 3" Frosted Mini	<b>HM</b> <sup>6</sup> Hang Straight <b>PM</b> <sup>6</sup> Rigid Pendant <b>CD</b> <sup>6</sup> Cord / Cable Mount <b>CD72</b> 72" Cord / Cable Mount <b>HC</b> <sup>6/7/8</sup> Hook & Cord <b>NM2</b> <sup>9/9</sup> 1/2" NPT Hub <b>NM3</b> <sup>9/9</sup> 3/4" NPT Hub	<b>PRISMATIC</b> <b>DF12</b> 12" Diffuse <b>PR12</b> 12" Clear <b>OP12</b> 12" Opal	<b>DR12A</b> <sup>11</sup> 12" Spun Door <b>BC12</b> 12" Band Clamp <b>RS12</b> <sup>12</sup> 12" Refractor Shroud	<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	<b>SC2</b> Safety Cable, Refractor to Door	<b>MW</b> <sup>15</sup> Matte White <b>MB</b> <sup>15</sup> Matte Black <b>PT</b> <sup>15</sup> Platinum Silver <b>CC</b> Custom Color	<b>FCHMA</b> Field Cuttable Mounting Kit for Hang Mount Fixtures
	<b>27L</b> 1900 Lm <b>35L</b> 2500 Lm	27K 2700K 30K 3000K 35K 3500K 40K 4000K									

GREEN TEXT INDICATES QUICK SHIP OPTIONS

EXAMPLE: DDS12GV15L35KEXTF1/HM36/AL12/MW1/MW

#### NOTES:

<sup>1</sup> Nominal Delivered Lumens with 35K-TF1-DF12   <sup>2</sup> Contact Factory for Additional Options   <sup>3</sup> 27L Max   <sup>4</sup> See Product Options Page for Details   <sup>5</sup> See Mounting Page for Details on Components   <sup>6</sup> Specify Length in Inches: See Mounting Page for Available Lengths   <sup>7</sup> Mounting Supplied by Others   <sup>8</sup> Not Available with EMCR   <sup>9</sup> 12" Leads Unless Specified   <sup>10</sup> Reflector Finished Matte White with Finish Color Out   <sup>11</sup> Same Finish as Housing   <sup>12</sup> Same Finish as Housing / For Use with Prismatic Shades Only   <sup>13</sup> No Color   <sup>14</sup> Reference Color Sheet Located on Product Webpage for Full List of Available Colors   <sup>15</sup> Standard Finishes   <sup>16</sup> Field Cuttable Mounting Kit only Available with HM Stem



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



# 12" ALUMINUM & PRISMATIC

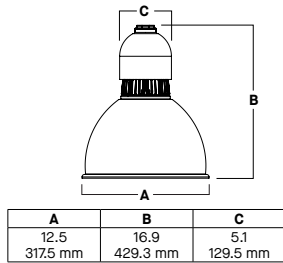
## DDS SERIES / FIXTURE OPTIONS



### SERIES TYPE

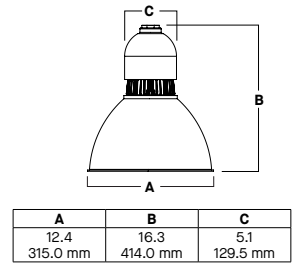
#### ALUMINUM

#### BOTTOM VIEW



#### PRISMATIC

#### BOTTOM VIEW



### STANDARD FINISHES

#### MW MATTE WHITE



DDS12/AL12 HM MATTE WHITE

#### MB MATTE BLACK



DDS12/AL12 HM MATTE BLACK

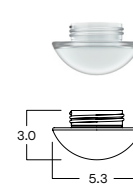
#### PT PLATINUM SILVER



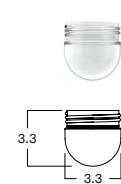
DDS12/AL12 HM PLATINUM SILVER

### ENCLOSURES

#### TF1 3" FROSTED DOME



#### MF1 3" FROSTED MINI



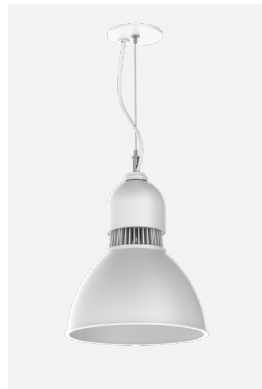
### MOUNTING TYPES

#### HM / PM HANG STRAIGHT / PENDANT



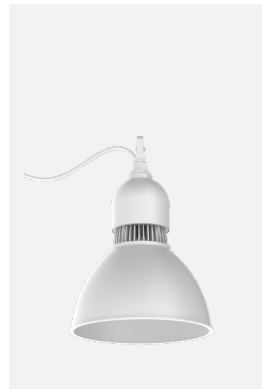
DDS12/AL12 SHOWN WITH PM

#### CD CORD / CABLE MOUNT



DDS12/AL12 SHOWN WITH CD

#### HC HOOK CORD



DDS12/AL12 SHOWN WITH HC

#### NM NO MOUNT



DDS12/AL12 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

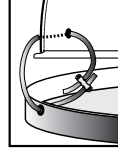
### SC1 - Safety Cable

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

### TF1 - 3" Frosted Dome



### MF1 - 3" Frosted Mini



## OPTIONS

### DOOR

**DR12A**-12" Spun Door  
**BC12**-12" Band Clamp  
**RS12**-12" Refractor Shroud

### LENSES

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



DR12A SHOWN WITH CN

### DOOR & GUARD

**DR12AWAG**-12" Door with Wire Guard

### LENSES

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



DR12AWAG SHOWN WITH FO

### GUARD OPTION

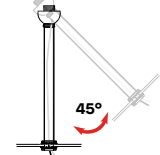
**WAG12**-12" Wire Guard



## MOUNTING TYPES

### HM\* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

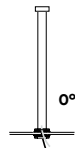


ORDER: **HM** (Length)  
 SPECIFY LENGTH:  
**HM3** - 3"    **HM24** - 24"  
**HM6** - 6"    **HM36** - 36"  
**HM12** - 12"    **HM48** - 48"  
**HM18** - 18"    **HM72** - 72"  
**HMLC(XX)**  
 Custom Length  
 (Specify in Inches)

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

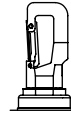
SJ CORD WITH 1/16 SS CABLE



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.

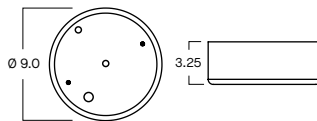
## MOUNTING OPTION

### FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



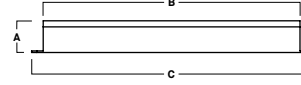
## EMERGENCY BATTERY OPTIONS

### EMCR - Large Driver Canopy For 10W Emergency Battery



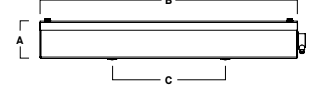
## REMOTE EMERGENCY BATTERY OPTIONS

### 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



# 12" PRISMATIC

## DDS SERIES / PHOTOMETRIC DATA



DDS12GV 35L 35K xx DF12 xx

CANDLEPOWER CURVE TEST SP-01626_2	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° 220 7%	Mounting Distance	<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 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>12'</td> <td>6'</td> <td>73</td> <td>0.69</td> <td>61</td> <td>0.69</td> </tr> <tr> <td>15'</td> <td>8'</td> <td>37</td> <td>0.35</td> <td>31</td> <td>0.35</td> </tr> <tr> <td>18'</td> <td>10'</td> <td>31</td> <td>0.29</td> <td>19</td> <td>0.21</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">106 FC per W/Sq. Ft.</td> <td colspan="2">89 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     2' Suspension Length to luminous aperture                      Square rooms used for multiple units:                      RCR 2: Length &amp; Width = Ceiling Ht. - 4.5' x 5.00                      RCR 4: Length &amp; Width = Ceiling Ht. - 4.5' x 2.50                      * Average Initial Footcandles at 2.5' Above Floor                 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	12'	6'	73	0.69	61	0.69	15'	8'	37	0.35	31	0.35	18'	10'	31	0.29	19	0.21	Delivered Illuminance Rating: (DIR)		106 FC per W/Sq. Ft.		89 FC per W/Sq. Ft.		2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor					
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	0° 2453	0° - 20° 752 24%	6.5' 58 fc 9.0' 16 fc		<table border="1"> <thead> <tr> <th>FC at Beam Center</th> <th>Diameter of Beam Angle</th> <th>FC at Beam Edge</th> </tr> </thead> <tbody> <tr> <td>7.5' 44 fc</td> <td>10.4' 12 fc</td> <td></td> </tr> <tr> <td>8.5' 34 fc</td> <td>11.7' 10 fc</td> <td></td> </tr> <tr> <td>10.0' 25 fc</td> <td>13.8' 7 fc</td> <td></td> </tr> <tr> <td>12.0' 17 fc</td> <td>16.6' 5 fc</td> <td></td> </tr> <tr> <td>14.0' 13 fc</td> <td>19.3' 4 fc</td> <td></td> </tr> <tr> <td>16.0' 10 fc</td> <td>22.1' 3 fc</td> <td></td> </tr> <tr> <td>20.0' 6 fc</td> <td>27.6' 2 fc</td> <td></td> </tr> </tbody> </table>	FC at Beam Center	Diameter of Beam Angle	FC at Beam Edge	7.5' 44 fc	10.4' 12 fc		8.5' 34 fc	11.7' 10 fc		10.0' 25 fc	13.8' 7 fc		12.0' 17 fc	16.6' 5 fc		14.0' 13 fc	19.3' 4 fc		16.0' 10 fc	22.1' 3 fc		20.0' 6 fc	27.6' 2 fc																
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15° 1883	0° - 40° 2173 70%	8.5' 34 fc 11.7' 10 fc																																										
25° 1567	0° - 60° 2608 84%	10.0' 25 fc 13.8' 7 fc																																										
35° 1199	0° - 80° 2888 93%	12.0' 17 fc 16.6' 5 fc																																										
45° 266	0° - 90° 2971 96%	14.0' 13 fc 19.3' 4 fc																																										
55° 206	Total 3097 100%	16.0' 10 fc 22.1' 3 fc																																										
90° 57		20.0' 6 fc 27.6' 2 fc																																										
Delivered Lumens: 3097 Luminaire Watts: 27 LER: 114.70	CP at 0° (Nadir): 2453 CRI: 80+	Beam Angle: 69° Spacing Ratio: 0.88 Melanopic Ratio: 0.56	Lumen Multiplier: 27L x .76 CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3																																									

DDS12GV 35L 35K xx TFI xx DF12 xx

CANDLEPOWER CURVE TEST SP-01629_2	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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14.0' 7 fc	21.9' 2 fc																																											
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20.0' 3 fc	31.3' 1 fc																																											
5° 1373	0° - 30° 1046 41%	7.5' 25 fc 11.8' 6 fc																																										
15° 1301	0° - 40° 1583 63%	8.5' 19 fc 13.3' 5 fc																																										
25° 1177	0° - 60° 2017 80%	10.0' 14 fc 15.7' 3 fc																																										
35° 895	0° - 80° 2275 90%	12.0' 10 fc 18.8' 2 fc																																										
45° 332	0° - 90° 2370 94%	14.0' 7 fc 21.9' 2 fc																																										
55° 175	Total 2524 100%	16.0' 5 fc 25.1' 1 fc																																										
90° 80		20.0' 3 fc 31.3' 1 fc																																										
Delivered Lumens: 2524 Luminaire Watts: 27 LER: 93.48	CP at 0° (Nadir): 1386 CRI: 80+	Beam Angle: 76° Spacing Ratio: 1.15 Melanopic Ratio: 0.53	Lumen Multiplier: 27L x .76 CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3																																									

DDS12GV 35L 35K xx DF12 xx CN xx

CANDLEPOWER CURVE TEST SP-01631_2	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° 91 3%	Mounting Distance	<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 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>12'</td> <td>6'</td> <td>61</td> <td>0.69</td> <td>50</td> <td>0.69</td> </tr> <tr> <td>15'</td> <td>8'</td> <td>31</td> <td>0.35</td> <td>25</td> <td>0.35</td> </tr> <tr> <td>18'</td> <td>10'</td> <td>19</td> <td>0.21</td> <td>15</td> <td>0.21</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">88 FC per W/Sq. Ft.</td> <td colspan="2">72 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     2' Suspension Length to luminous aperture                      Square rooms used for multiple units:                      RCR 2: Length &amp; Width = Ceiling Ht. - 4.5' x 5.00                      RCR 4: Length &amp; Width = Ceiling Ht. - 4.5' x 2.50                      * Average Initial Footcandles at 2.5' Above Floor                 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	12'	6'	61	0.69	50	0.69	15'	8'	31	0.35	25	0.35	18'	10'	19	0.21	15	0.21	Delivered Illuminance Rating: (DIR)		88 FC per W/Sq. Ft.		72 FC per W/Sq. Ft.		2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor					
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																																					
			FC *		W/Sq. Ft.	FC *	W/Sq. Ft.																																					
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	0° 966	0° - 20° 441 17%	6.5' 23 fc 10.4' 5 fc		<table border="1"> <thead> <tr> <th>FC at Beam Center</th> <th>Diameter of Beam Angle</th> <th>FC at Beam Edge</th> </tr> </thead> <tbody> <tr> <td>7.5' 17 fc</td> <td>12.0' 4 fc</td> <td></td> </tr> <tr> <td>8.5' 13 fc</td> <td>13.6' 3 fc</td> <td></td> </tr> <tr> <td>10.0' 10 fc</td> <td>16.0' 2 fc</td> <td></td> </tr> <tr> <td>12.0' 7 fc</td> <td>19.2' 2 fc</td> <td></td> </tr> <tr> <td>14.0' 5 fc</td> <td>22.4' 1 fc</td> <td></td> </tr> <tr> <td>16.0' 4 fc</td> <td>25.6' 1 fc</td> <td></td> </tr> <tr> <td>20.0' 2 fc</td> <td>32.0' 1 fc</td> <td></td> </tr> </tbody> </table>	FC at Beam Center	Diameter of Beam Angle	FC at Beam Edge	7.5' 17 fc	12.0' 4 fc		8.5' 13 fc	13.6' 3 fc		10.0' 10 fc	16.0' 2 fc		12.0' 7 fc	19.2' 2 fc		14.0' 5 fc	22.4' 1 fc		16.0' 4 fc	25.6' 1 fc		20.0' 2 fc	32.0' 1 fc																
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5° 906	0° - 30° 1044 40%	7.5' 17 fc 12.0' 4 fc																																										
15° 1283	0° - 40° 1666 63%	8.5' 13 fc 13.6' 3 fc																																										
25° 1295	0° - 60° 2072 79%	10.0' 10 fc 16.0' 2 fc																																										
35° 1080	0° - 80° 2328 88%	12.0' 7 fc 19.2' 2 fc																																										
45° 272	0° - 90° 2411 91%	14.0' 5 fc 22.4' 1 fc																																										
55° 182	Total 2639 100%	16.0' 4 fc 25.6' 1 fc																																										
90° 69		20.0' 2 fc 32.0' 1 fc																																										
Delivered Lumens: 2639 Luminaire Watts: 27 LER: 97.74	CP at 0° (Nadir): 966 CRI: 80+	Beam Angle: 77° Spacing Ratio: 1.48 Melanopic Ratio: 0.55	Lumen Multiplier: 27L x .76 CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3																																									



# 12" PRISMATIC

## DDS SERIES / PHOTOMETRIC DATA



DDS12GV 35L 35K xx PR12 xx

CANDLEPOWER CURVE TEST SP-01627_2	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° 369 12%	<table border="1"> <thead> <tr> <th>Mounting Distance</th> <th>FC at Beam Center</th> <th>Diameter at Beam Angle</th> <th>FC at Beam Edge</th> </tr> </thead> <tbody> <tr><td>6.5'</td><td>99 fc</td><td>6.1'</td><td>37 fc</td></tr> <tr><td>7.5'</td><td>74 fc</td><td>7.0'</td><td>28 fc</td></tr> <tr><td>8.5'</td><td>58 fc</td><td>7.9'</td><td>22 fc</td></tr> <tr><td>10.0'</td><td>42 fc</td><td>9.3'</td><td>16 fc</td></tr> <tr><td>12.0'</td><td>29 fc</td><td>11.2'</td><td>11 fc</td></tr> <tr><td>14.0'</td><td>21 fc</td><td>13.0'</td><td>8 fc</td></tr> <tr><td>16.0'</td><td>16 fc</td><td>14.9'</td><td>6 fc</td></tr> <tr><td>20.0'</td><td>10 fc</td><td>18.6'</td><td>4 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5'	99 fc	6.1'	37 fc	7.5'	74 fc	7.0'	28 fc	8.5'	58 fc	7.9'	22 fc	10.0'	42 fc	9.3'	16 fc	12.0'	29 fc	11.2'	11 fc	14.0'	21 fc	13.0'	8 fc	16.0'	16 fc	14.9'	6 fc	20.0'	10 fc	18.6'	4 fc	0° 4172	<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 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr><td>12'</td><td>6'</td><td>80</td><td>0.69</td><td>70</td><td>0.69</td></tr> <tr><td>15'</td><td>8"</td><td>41</td><td>0.35</td><td>36</td><td>0.35</td></tr> <tr><td>18'</td><td>10"</td><td>34</td><td>0.29</td><td>22</td><td>0.21</td></tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	12'	6'	80	0.69	70	0.69	15'	8"	41	0.35	36	0.35	18'	10"	34	0.29	22	0.21
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5° 4016	0° - 20° 1162 37%	12' 6'	80	0.69	70	0.69																																																															
15° 2867	0° - 30° 2098 67%	15' 8"	41	0.35	36	0.35																																																															
25° 2080	0° - 40° 2801 89%	18' 10"	34	0.29	22	0.21																																																															
35° 1174	0° - 60° 3047 97%	Delivered Illuminance Rating: (DIR)		116 FC per W/Sq. Ft.		101 FC per W/Sq. Ft.																																																															
45° 150	0° - 80° 3105 99%	2' Suspension Length to luminous aperture				Square rooms used for multiple units:																																																															
55° 90	0° - 90° 3113 99%	RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00				RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50																																																															
90° 5	Total 3139 100%	* Average Initial Footcandles at 2.5' Above Floor				* Exceeds Spacing Ratio by 16%																																																															
Delivered Lumens: 3139 Luminaire Watts: 27 LER: 116.26		Beam Angle: 50° Spacing Ratio: 0.69 Melanopic Ratio: 0.57		Lumen Multiplier: 27L x .77 CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3																																																																	
CP at 0° (Nadir): 4172		CRI: 80+																																																																			

DDS12GV 35L 35K xx TF1 xx PR12 xx

CANDLEPOWER CURVE TEST SP-01630_2	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° 175 7%	<table border="1"> <thead> <tr> <th>Mounting Distance</th> <th>FC at Beam Center</th> <th>Diameter at Beam Angle</th> <th>FC at Beam Edge</th> </tr> </thead> <tbody> <tr><td>6.5'</td><td>41 fc</td><td>9.4'</td><td>11 fc</td></tr> <tr><td>7.5'</td><td>31 fc</td><td>10.8'</td><td>8 fc</td></tr> <tr><td>8.5'</td><td>24 fc</td><td>12.3'</td><td>6 fc</td></tr> <tr><td>10.0'</td><td>18 fc</td><td>14.5'</td><td>5 fc</td></tr> <tr><td>12.0'</td><td>12 fc</td><td>17.4'</td><td>3 fc</td></tr> <tr><td>14.0'</td><td>9 fc</td><td>20.2'</td><td>2 fc</td></tr> <tr><td>16.0'</td><td>7 fc</td><td>23.1'</td><td>2 fc</td></tr> <tr><td>20.0'</td><td>4 fc</td><td>28.9'</td><td>1 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5'	41 fc	9.4'	11 fc	7.5'	31 fc	10.8'	8 fc	8.5'	24 fc	12.3'	6 fc	10.0'	18 fc	14.5'	5 fc	12.0'	12 fc	17.4'	3 fc	14.0'	9 fc	20.2'	2 fc	16.0'	7 fc	23.1'	2 fc	20.0'	4 fc	28.9'	1 fc	0° 1751	<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 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr><td>12'</td><td>6'</td><td>63</td><td>0.69</td><td>54</td><td>0.69</td></tr> <tr><td>15'</td><td>8'</td><td>32</td><td>0.35</td><td>27</td><td>0.35</td></tr> <tr><td>18'</td><td>10'</td><td>20</td><td>0.21</td><td>17</td><td>0.21</td></tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	12'	6'	63	0.69	54	0.69	15'	8'	32	0.35	27	0.35	18'	10'	20	0.21	17	0.21
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5° 1746	0° - 20° 684 27%	12' 6'	63	0.69	54	0.69																																																															
15° 1742	0° - 30° 1423 55%	15' 8'	32	0.35	27	0.35																																																															
25° 1595	0° - 40° 2043 79%	18' 10'	20	0.21	17	0.21																																																															
35° 1020	0° - 60° 2356 92%	Delivered Illuminance Rating: (DIR)		91 FC per W/Sq. Ft.		78 FC per W/Sq. Ft.																																																															
45° 286	0° - 80° 2466 96%	2' Suspension Length to luminous aperture				Square rooms used for multiple units:																																																															
55° 90	0° - 90° 2508 97%	RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00				RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50																																																															
90° 34	Total 2573 100%	* Average Initial Footcandles at 2.5' Above Floor																																																																			
Delivered Lumens: 2573 Luminaire Watts: 27 LER: 95.30		Beam Angle: 72° Spacing Ratio: 1.17 Melanopic Ratio: 0.54		Lumen Multiplier: 27L x .77 CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3																																																																	
CP at 0° (Nadir): 1751		CRI: 80+																																																																			

DDS12GV 35L 35K xx PR12 xx CN xx

CANDLEPOWER CURVE TEST SP-01632_2	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° 171 6%	<table border="1"> <thead> <tr> <th>Mounting Distance</th> <th>FC at Beam Center</th> <th>Diameter at Beam Angle</th> <th>FC at Beam Edge</th> </tr> </thead> <tbody> <tr><td>6.5'</td><td>43 fc</td><td>9.7'</td><td>11 fc</td></tr> <tr><td>7.5'</td><td>32 fc</td><td>11.2'</td><td>8 fc</td></tr> <tr><td>8.5'</td><td>25 fc</td><td>12.7'</td><td>6 fc</td></tr> <tr><td>10.0'</td><td>18 fc</td><td>15.0'</td><td>5 fc</td></tr> <tr><td>12.0'</td><td>13 fc</td><td>18.0'</td><td>3 fc</td></tr> <tr><td>14.0'</td><td>9 fc</td><td>20.9'</td><td>2 fc</td></tr> <tr><td>16.0'</td><td>7 fc</td><td>23.9'</td><td>2 fc</td></tr> <tr><td>20.0'</td><td>5 fc</td><td>29.9'</td><td>1 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5'	43 fc	9.7'	11 fc	7.5'	32 fc	11.2'	8 fc	8.5'	25 fc	12.7'	6 fc	10.0'	18 fc	15.0'	5 fc	12.0'	13 fc	18.0'	3 fc	14.0'	9 fc	20.9'	2 fc	16.0'	7 fc	23.9'	2 fc	20.0'	5 fc	29.9'	1 fc	0° 1825	<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 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr><td>12'</td><td>6'</td><td>67</td><td>0.69</td><td>57</td><td>0.69</td></tr> <tr><td>15'</td><td>8'</td><td>34</td><td>0.35</td><td>29</td><td>0.35</td></tr> <tr><td>18'</td><td>10'</td><td>21</td><td>0.21</td><td>18</td><td>0.21</td></tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	12'	6'	67	0.69	57	0.69	15'	8'	34	0.35	29	0.35	18'	10'	21	0.21	18	0.21
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5° 1771	0° - 20° 700 26%	12' 6'	67	0.69	57	0.69																																																															
15° 1880	0° - 30° 1502 56%	15' 8'	34	0.35	29	0.35																																																															
25° 1774	0° - 40° 2212 82%	18' 10'	21	0.21	18	0.21																																																															
35° 1207	0° - 60° 2553 95%	Delivered Illuminance Rating: (DIR)		97 FC per W/Sq. Ft.		83 FC per W/Sq. Ft.																																																															
45° 289	0° - 80° 2611 97%	2' Suspension Length to luminous aperture				Square rooms used for multiple units:																																																															
55° 110	0° - 90° 2619 97%	RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00				RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50																																																															
90° 7	Total 2690 100%	* Average Initial Footcandles at 2.5' Above Floor																																																																			
Delivered Lumens: 2690 Luminaire Watts: 27 LER: 99.63		Beam Angle: 74° Spacing Ratio: 1.26 Melanopic Ratio: 0.57		Lumen Multiplier: 27L x .77 CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3																																																																	
CP at 0° (Nadir): 1825		CRI: 80+																																																																			



# 12" ALUMINUM

## DDS SERIES / PHOTOMETRIC DATA



DDS12GV 35L 35K xx AL12 MWI xx

CANDLEPOWER CURVE TEST SP-01625_2	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° 177 6%	6.5'	46 fc	9.7'	12 fc	12'	6'	67	0.69	55	0.69	
	0°	0° - 20° 637 23%	7.5'	35 fc	11.2'	9 fc							
	5°	0° - 30° 1327 48%	8.5'	27 fc	12.7'	7 fc							
	15°	0° - 40° 1990 72%	10.0'	19 fc	14.9'	5 fc	15'	8'	34	0.35	28	0.35	
	25°	0° - 60° 2465 90%	12.0'	14 fc	17.9'	3 fc							
	35°	0° - 80° 2715 99%	14.0'	10 fc	20.9'	3 fc	18'	10'	28	0.29	17	0.21	
	45°	0° - 90° 2732 99%	16.0'	8 fc	23.8'	2 fc							
	55°	0° - 90° 2732 99%	20.0'	5 fc	29.8'	1 fc							
	1800 cd	2000 cd	2747	Total	2747	100%							

Delivered Lumens: 2747  
Luminaire Watts: 27  
LER: 101.74

CP at 0° (Nadir): 1948  
CRI: 80+

Beam Angle: 73°  
Spacing Ratio: 1.10  
Melanopic Ratio: 0.57

Lumen Multiplier: 27L x .74  
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3

DDS12GV 35L 35K xx TF1 xx AL12 MWI xx

CANDLEPOWER CURVE TEST SP-01628_2	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° 124 6%	6.5'	31 fc	10.2'	7 fc	12'	6'	54	0.69	44	0.69	
	0°	0° - 20° 474 21%	7.5'	23 fc	11.8'	6 fc							
	5°	0° - 30° 1010 45%	8.5'	18 fc	13.4'	4 fc							
	15°	0° - 40° 1537 69%	10.0'	13 fc	15.8'	3 fc	15'	8'	27	0.35	23	0.35	
	25°	0° - 60° 2000 90%	12.0'	9 fc	18.9'	2 fc							
	35°	0° - 80° 2204 99%	14.0'	7 fc	22.1'	2 fc	18'	10'	17	0.21	14	0.21	
	45°	0° - 90° 2217 99%	16.0'	5 fc	25.2'	1 fc							
	55°	0° - 90° 2217 99%	20.0'	3 fc	31.5'	1 fc							
	1000 cd	1300 cd	2229	Total	2229	100%							

Delivered Lumens: 2229  
Luminaire Watts: 27  
LER: 82.56

CP at 0° (Nadir): 1296  
CRI: 80+

Beam Angle: 76°  
Spacing Ratio: 1.21  
Melanopic Ratio: 0.55

Lumen Multiplier: 27L x .78  
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.3

### 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> $FC_H = CP \times (\cos \theta) \div D^2$ $\text{Beam Diam.} = \frac{1}{2} \text{Beam Angle} (\tan) \times 2D$ <ul style="list-style-type: none"> <li>- CP Candela at 0° (Nadir)</li> <li>- Cos θ Cosine of θ Angle</li> <li>- D Distance (Mounting Height AFF)</li> <li>- FC<sub>H</sub> Footcandles, Horizontal</li> <li>- Beam Angle Cone of light to 50% max. CP</li> <li>- Beam Diam. Pattern of light at Beam Angle</li> </ul>	<p>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.</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"> <li>- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): FC = Chart Spacing<sup>2</sup> ÷ Different Spacing<sup>2</sup> x Chart FC</li> <li>- To estimate Sq. Ft. per fixture for a specific target FC: Sq. Ft. / Fixture = Chart FC x Chart Spacing<sup>2</sup> ÷ Target FC</li> </ul> <ul style="list-style-type: none"> <li>- To estimate Fixture Quantity in a room: Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture</li> <li>- To estimate Watts/Sq. Ft.: W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.</li> </ul>