

Α	В	С					
16.2	19.6	6.5					
411.5 mm	487.7 mm	165.1 mm					

Dimensioned with PRISMATIC

16" Lowbay 4650 Lm

Soft View Optical Lens



DDS16

APPLICATION

16" 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 (TF2) 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.

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

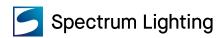
NOMINAL LUMENS / WATTAGE DATA												
PART NUMBER	DELIVERED LUMENS ¹	LPW										
DDS16GV15L	1252	10	125									
DDS16GV27L	2133	18	119									
DDS16GV37L	3152	26	121									
DDS16GV55L	4636	39	119									

SERIES	LUMEN	NS ¹	ССТ	DRIVER / DIMI	MING ²	SAFETY OPTIONS ³	М	OUNTING4	SHADE		ENCLOSURE OPTIONS			OPTIONS		FINISH ¹³		NG OPTION ¹⁵																												
DDS16GV	15L 1250 27L 2150 37L 3150 55L 465	0 Lm 3	80 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K	DX 1% 0-	7, 277V -10V, 277V	ENCLOSURES TF2 4" Frosted Dome MF2 4" Frosted Mini	PM_5 CD_5 CD72 HC_5/6/7 NM26/7/8	Hang Straight Rigid Pendant Cord / Cable Mount 72" Cord / Cable Mount Hook & Cord ½" NPT Hub 3⁄4" NPT Hub	PRISMA DF16 PR16 OP16	16" Diffuse 16" Clear	DR16D ¹⁰ BC16 RS16 ¹¹	SORIES 16" Spun Door 16" Band Clamp 16" Refractor Shroud	LENS CNFR Conical Frosted Lens CN Conical Lens DL Drop Lens FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate	Refracto to Door	MB ¹⁴	Matte White Matte Black Platinum Silver Custom Color		Field Cuttable Mounting Kit for Hang Mount Fixtures																												
		30 35	90 CRI 7HK 2700K 3000K 3500K 3500K 4000K			SAFETY OPTIONS FS Fusing SC1 Safety Cable	EMCR EMRM	TERY OPTIONS 10W Canopy Mounted EM 7W Remote EM 7W Remote with Enclosure	AL16/MWI ⁹	Matte White Inside		16" Door with Wire Guard 16" Wire Guard	PO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate None																																	

GREEN TEXT INDICATES QUICK SHIP OPTIONS

EXAMPLE: DDS16GV37L35KEXTF2/HM36/AL16/MWI/MW

10 Nominal Delivered Lumens with 35K TF2 DF16 2 Contact Factory for Additional Options 3 See Product Options Page for Details 4 See Mounting Page for Details on Components 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 Same Finish as Housing / For Use with Prismatic Shades Only 12 No Color 13 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 14 Standard Finishes 15 Field Cuttable Mounting Kit only Available with HM Stem



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QUANTITY:	TYPE:







PROJECT:

16" ALUMINUM & PRISMATIC

DDS SERIES / FIXTURE OPTIONS

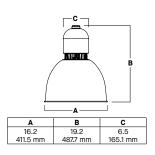


SERIES TYPE ALUMINUM



BOTTOM VIEW



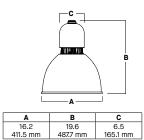


PRISMATIC



BOTTOM VIEW





STANDARD FINISHES

MW MATTE WHITE





MB MATTE BLACK



DDS16/AL16 HM MATTE BLACK

PT PLATINUM SILVER



DDS16/AL16 HM PLATINUM SILVER

ENCLOSURES

TF2 4" FROSTED DOME





MF2 4" FROSTED MINI





MOUNTING TYPES

HM / PM HANG STRAIGHT / PENDANT



DDS16/AL16 SHOWN WITH PM

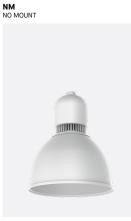
CD CORD / CABLE MOUNT



DDS16/AL16 SHOWN WITH CD

HC HOOK CORD





DDS16/AL16 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.



OPTIONS

SC2 - Safety Cable, Refractor to Door 1/16" Stainless steel cable holds



door to fixture

ENCLOSURES

TF2 - 4" Frosted Dome MF2 - 4" Frosted Mini





DR16D-16" Spun Door BC16-16" Band Clamp RS16-16" Refractor Shroud



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



DOOR & GUARD

DR16DWAG-16" Door with Wire Guard





GUARD OPTION

WAG16-16" Wire Guard



MOUNTING TYPES



ORDER: HM (Length) SPECIFY LENGTH:

HM3 - 3" HM24 - 24" HM36 - 36" HM6 - 6" HM12 - 12" HM48 - 48" HM18 - 18" HM72 - 72"

Custom Length (Specify in Inches) TO TRIM HM STEM IN FIELD ORDER FCHMA KIT. PM* - Ridgid Pendant Mount



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)

*MAXIMUM ONE PIECE STEM LENGTH IS 72". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

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

(Specify in Inches)

NMXLC(XX) Custom Length

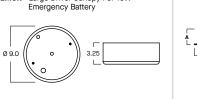
MOUNTING OPTION

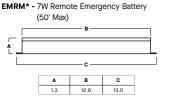
HMLC(XX)

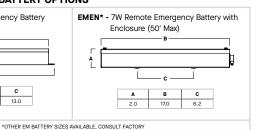


EMERGENCY BATTERY OPTIONS EMCR - Large Driver Canopy For 10W

REMOTE EMERGENCY BATTERY OPTIONS









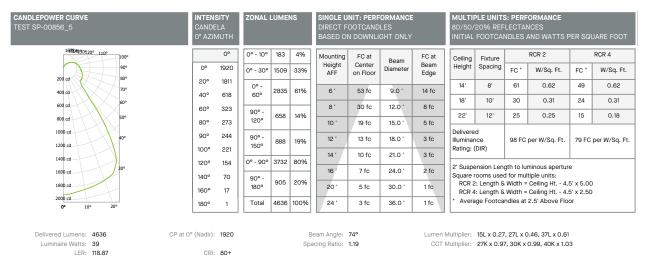


16" PRISMATIC

DDS SERIES / PHOTOMETRIC DATA

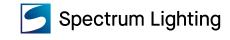


DDS16GV 55L 35K EX TF2 DF16 NL



DDS16GV 55L 35K EX TF2 PR16 NL

CANDLEPOWER CURVE TEST SP-00858_5	INTENSITY CANDELA O° AZIMUTH	ZONAL	LUMEI	NS	DIRECT F	OOTCANE	FORMANCE DLES IGHT ONLY		MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT						
13020710° 100°	0°	0° - 10°	314	6%	Mounting	FC at Center on Floor	Beam Diameter	FC at	Ceiling	Fixture	RCR 2		RCR 4		
300 cd 80°	0° 3279 20° 3378	0° -	2693	56%	Height AFF			Beam Edge	Height	Spacing	FC ⁺	W/Sq. Ft.	FC *	W/Sq. Ft.	
600 cd 70°	40° 982	0° -	4394	91%	6'	91 fc	8.5 '	25 fc	14'	8'	74	0.62	63	0.62	
900 cd 60°	60° 142	60°	4354	9170	8,	51 fc	11.3	14 fc	18'	10'	37	0.31	31	0.31	
1500.cd	80° 82	90° - 120°	123	3%	10 '	33 fc	14.1	9 fc	22'	12'	30	0.25	18	0.18	
1800 cd 40°	90° 62	90° - 150°	90° - 130 394 12 23 fc 17.0 6		6 fc	Delivered Illuminance 119 FC p			per W/Sq. Ft.	W/Sq. Ft. 101 FC per W/Sq. Ft.					
2400.cd	100° 46	0° -			14 '	17 fc	19.8 '	5 fc	Rating: (DIR)					
2700 cd 30°	120° 17	90°	4690	97%	16 '	13 fc	22.6 '	3 fc	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						
3000 cd 3300 ed	160° 4	90° - 180°	142	3%	20 '	8 fc	28.3 '	2 fc							
0° 10° 20°	180° 2	Total	4832	100%	24 '	6 fc	33.9 '	2 fc	+ Avera	ge Footca	ndles at				
Delivered Lumens: 4832 Luminaire Watts: 39 LER: 123.90	CP at 0° (Nadir): 3279 CRI: 80+				Beam Angle: acing Ratio:							0.46, 37L x 0.61 0.99, 40K x 1.0			

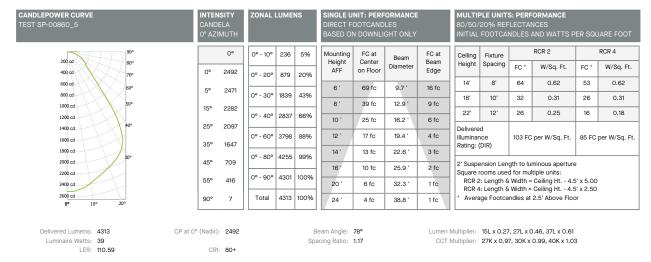


16" ALUMINUM

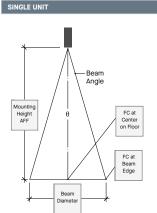
DDS SERIES / PHOTOMETRIC DATA



DDS16GV 55L 35K EX TF2 AL16 MWI NL



HOW TO USE PERFORMANCE DATA



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.

 $FC_H = CP \times (Cos \theta) \div D^2$

Beam Diam. = 1/2 Beam Angle (Tan) x 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

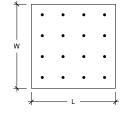
MULTIPLE UNITS

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 = Chart Spacing² ÷ Different Spacing² x Chart FC

 \cdot To estimate Sq. Ft. per fixture for a specific target FC: Sq. Ft. / Fixture = Chart FC x Chart Spacing² \div Target FC



- To estimate Fixture Quantity in a room: Fixture Qty. = Sq. Ft. of Rm. \div Sq. Ft. per fixture
- To estimate Watts/Sq. Ft.:
 W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.

