

16" ALUMINUM & PRISMATIC

DDS SERIES



DDS16

APPLICATION

16" Lumen Max GV series performance pendant for low and mid-bay applications. Aluminum reflector designed for maximum downlight. Prismatic refractor provides horizontal and vertical distribution.

FEATURES

Domed Fixture Housing (DDS) features a contemporary design and is easy to maintain. Single-stage optical system for smooth light distribution. 80 CRI minimum. Consult factory for high CRI or special applications. LED module and driver designed for ease of maintenance and replacement. Posi-lock reflector retention ring will absorb shocks and impact. Optional safety cable. Variety of optical lenses, enclosures 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. Standard Matte White interior finish on reflectors.

ELECTRONICS

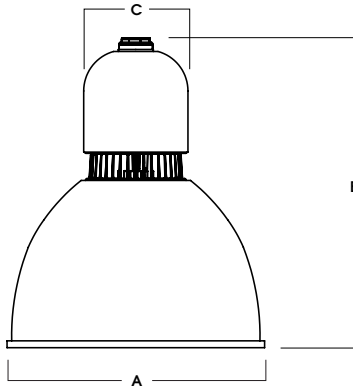
GV LED system features high brightness white Samsung LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80+. Higher CRI, R9 and custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers.

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.



A	B	C
16.2	19.2	6.5
411.5 mm	487.7 mm	165.1 mm

Dimensioned with ALUMINUM

NOMINAL LUMENS / WATTAGE DATA					
CURRENT PART NUMBER EXAMPLE	PREVIOUS PART NUMBER EXAMPLE	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
DDS16GV15L	DDH16GV15L	1500	1252	10	125
DDS16GV27L	DDH16GV27L	2700	2133	18	119
DDS16GV37L	DDH16GV37L	3700	3152	26	121
DDS16GV55L	DDH16GV55L	5500	4636	39	119

SERIES	LUMENS ¹	CCT	DRIVER / DIMMING ³	OPTIONS ⁴	MOUNTING ⁵	SHADE	DIFFUSER OPTIONS	FINISH ¹²		
DDS16GV	15L 1500 Lm	27K 2700K	EX Electronic Driver, 120V/277V DO10X 1% 0-10V, 120V/277V DS10X 10% 0-10V, 120V/277V DS2W1 ELV/MLV, 120V	ENCLOSURES TF2 4" Frosted Dome MF2 4" Frosted Mini	HM ⁶ Hang Straight AT ⁶ Hang Straight All Thread PM ⁶ Rigid Pendant CD ⁶ Cord / Cable Mount HC ^{6/7/8} Hook & Cord NM2 ^{7/8/9} 1/2" NPT Hub NM3 ^{7/8/9} 3/4" NPT Hub	ALUMINUM	DOOR DR16D ¹⁰ 16" Spun Door BC16 16" Band Clamp RS16 ¹¹ 16" Refractor Shroud	LENS CNFR Conical Frosted Lens CN Conical Lens FO White Optical Acrylic PP Prismatic Polycarbonate WAG16 16" Wire Guard	MW ¹³ Matte White MB ¹³ Matte Black PT ¹³ Platinum Silver See Page 6 for Full Range of Color Options (83-90081)	
	27L 2700 Lm	30K 3000K				AL16/MWI Matte White Inside				PRISMATIC DF16 16" Diffuse PR16 16" Clear OP16 16" Opal
	37L 3700 Lm	35K 3500K				AL16/FCI Fixture Color Inside				
55L 5500 Lm	40K 4000K		SAFETY OPTIONS FS Fusing SC1 Safety Cable SC2 Safety Cable, Refractor to Door	EMERGENCY BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure						

EXAMPLE: DDS16GV37L35KEXTF2/HM36/AL16/MWI/MW

NOTES:
 1 Nominal Source Lumens at 35K 2 Nominal Delivered Lumens at 55L 35K EX TF2 DF16 NL 3 Contact Factory for Additional Options 4 See Product Options Page for Details 5 See Mounting Page for Details on Components
 6 Specify Length in Inches: See Mounting Page for Available Lengths 7 Mounting Supplied by Others 8 Not Available with EMCR 9 12" Leads Unless Specified 10 Same Finish as Housing 11 Same Finish as Housing / For Use with Prismatic Shades Only 12 See Color Page for More Options/Consult Factory for Special Finishes 13 Standard Finishes



PROJECT: _____
 TYPE: _____



Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

16" ALUMINUM & PRISMATIC

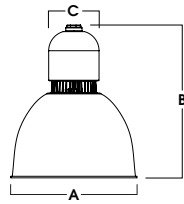
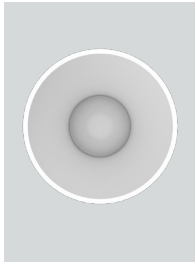
DDS SERIES / FIXTURE OPTIONS



SERIES TYPE

ALUMINUM

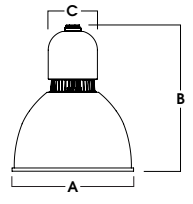
BOTTOM VIEW



A	B	C
16.2	19.2	6.5
411.5 mm	487.7 mm	165.1 mm

PRISMATIC

BOTTOM VIEW



A	B	C
16.2	19.6	6.5
411.5 mm	487.7 mm	165.1 mm

STANDARD FINISHES

MW
MATTE WHITE

MB
MATTE BLACK

PT
PLATINUM SILVER



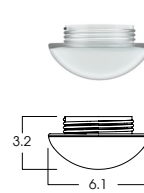
DDS16/AL16 HM MATTE WHITE

DDS16/AL16 HM MATTE BLACK

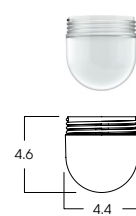
DDS16/AL16 HM PLATINUM SILVER

ENCLOSURES

TF2
4" FROSTED DOME



MF2
4" FROSTED MINI



MOUNTING TYPES

HM / AT / PM
HANG STRAIGHT / ALL THREAD / PENDANT

CD
CORD / CABLE MOUNT

HC
HOOK CORD

NM
NO MOUNT



DDS16/AL16 SHOWN WITH PM

DDS16/AL16 SHOWN WITH CD

DDS16/AL16 SHOWN WITH HC

DDS16/AL16 SHOWN WITH NM

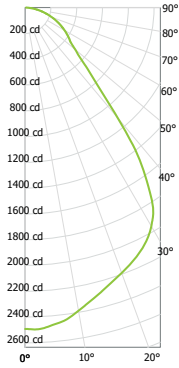
16" ALUMINUM

DDS SERIES / PHOTOMETRIC DATA



DDS16GV 55L 35K EX TF2 AL16 MWI NL

CANDLEPOWER CURVE TEST SP-00860_5	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT
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0°	0° - 10°	236	5%
0°	2492	879	20%
5°	2471	1839	43%
15°	2282	2837	66%
25°	2097	3798	88%
35°	1647	4255	99%
45°	709	4301	100%
55°	416		
90°	7	Total	4313 100%

Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge
6'	69 fc	9.7'	16 fc
8'	39 fc	12.9'	9 fc
10'	25 fc	16.2'	6 fc
12'	17 fc	19.4'	4 fc
14'	13 fc	22.6'	3 fc
16'	10 fc	25.9'	2 fc
20'	6 fc	32.3'	1 fc
24'	4 fc	38.8'	1 fc

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
14'	8'	64	0.62	53	0.62
18'	10'	32	0.31	26	0.31
22'	12'	26	0.25	16	0.18
Delivered Illuminance Rating: (DIR)		103 FC per W/Sq. Ft.		85 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 Footcandles at 2.5' Above Floor					

Delivered Lumens: **4313**
 Luminaire Watts: **39**
 LER: **110.59**

CP at 0° (Nadir): **2492**
 CRI: **80+**

Beam Angle: **78°**
 Spacing Ratio: **1.17**

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.61
 CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03

16" PRISMATIC

DDS SERIES / PHOTOMETRIC DATA



DDS16GV 55L 35K EX TF2 DF16 NL

CANDLEPOWER CURVE TEST SP-00856_5	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
	0°	0° - 10° 183 4%	Mounting Height AFF	Ceiling Height	Fixture Spacing	RCR 2		RCR 4			
	0° 1920	0° - 30° 1509 33%	FC at Center on Floor	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.		
	20° 1811	0° - 60° 2835 61%	Beam Diameter	FC at Beam Edge	14'	8'	61	0.62	49	0.62	
	40° 618	90° - 120° 658 14%	6' 53 fc	9.0'	14 fc	18'	10'	30	0.31	24	0.31
	60° 323	90° - 150° 888 19%	8' 30 fc	12.0'	8 fc	22'	12'	25	0.25	15	0.18
	80° 273	0° - 90° 3732 80%	10' 19 fc	15.0'	5 fc	Delivered Illuminance Rating: (DIR)		98 FC per W/Sq. Ft.		79 FC per W/Sq. Ft.	
	90° 244	90° - 180° 905 20%	12' 13 fc	18.0'	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 * Average Footcandles at 2.5' Above Floor					
	100° 221	Total 4636 100%	14' 10 fc	21.0'	3 fc						
	120° 154		16' 7 fc	24.0'	2 fc						
	140° 70		20' 5 fc	30.0'	1 fc						
	160° 17		24' 3 fc	36.0'	1 fc						
	180° 1										

Delivered Lumens: **4636**
Luminaire Watts: **39**
LER: **118.87**

CP at 0° (Nadir): **1920**
CRI: **80+**

Beam Angle: **74°**
Spacing Ratio: **1.19**

Lumen Multiplier: **15L x 0.27, 27L x 0.46, 37L x 0.61**
CCT Multiplier: **27K x 0.97, 30K x 0.99, 40K x 1.03**

See Page 1 for System Watts for all Outputs

DDS16GV 55L 35K EX TF2 PR16 NL

CANDLEPOWER CURVE TEST SP-00858_5	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
	0°	0° - 10° 314 6%	Mounting Height AFF	Ceiling Height	Fixture Spacing	RCR 2		RCR 4			
	0° 3279	0° - 30° 2693 56%	FC at Center on Floor	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.		
	20° 3378	0° - 60° 4394 91%	Beam Diameter	FC at Beam Edge	14'	8'	74	0.62	63	0.62	
	40° 982	90° - 120° 123 3%	6' 91 fc	8.5'	25 fc	18'	10'	37	0.31	31	0.31
	60° 142	90° - 150° 139 3%	8' 51 fc	11.3'	14 fc	22'	12'	30	0.25	18	0.18
	80° 82	0° - 90° 4690 97%	10' 33 fc	14.1'	9 fc	Delivered Illuminance Rating: (DIR)		119 FC per W/Sq. Ft.		101 FC per W/Sq. Ft.	
	90° 62	90° - 180° 142 3%	12' 23 fc	17.0'	6 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 * Average Footcandles at 2.5' Above Floor					
	100° 46	Total 4832 100%	14' 17 fc	19.8'	5 fc						
	120° 17		16' 13 fc	22.6'	3 fc						
	140° 5		20' 8 fc	28.3'	2 fc						
	160° 4		24' 6 fc	33.9'	2 fc						
	180° 2										

Delivered Lumens: **4832**
Luminaire Watts: **39**
LER: **123.90**

CP at 0° (Nadir): **3279**
CRI: **80+**

Beam Angle: **71°**
Spacing Ratio: **1.17**

Lumen Multiplier: **15L x 0.27, 27L x 0.46, 37L x 0.61**
CCT Multiplier: **27K x 0.97, 30K x 0.99, 40K x 1.03**

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.



ENCLOSURES

TF2 4" FROSTED DOME 	MF2 4" FROSTED MINI 
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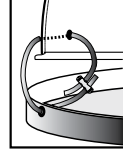
ADDITIONS

FS - FUSING

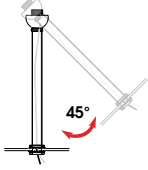
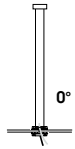
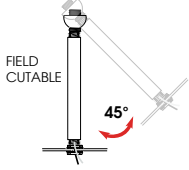
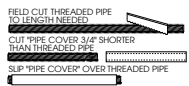

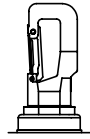

Slow blow type fuse protects fixture against voltage surges. Factory installed.



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 1/16" Stainless steel cable holds door to fixture 
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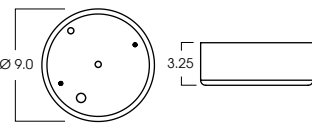
MOUNTING TYPES

<p>HM* HANG STRAIGHT 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)</p>	<p>PM* RIGID PENDANT MOUNT 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>AT** HANG STRAIGHT ALL THREAD 45° SWIVEL 5/8" OD STEM - 1/4" IP</p>  <p>ORDER: AT (Length) SPECIFY LENGTH: AT12 - 12" AT24 - 24" AT36 - 36"</p>  <p>FIELD CUT THREADED PIPE (NO LENGTH NEEDED) CUT PIPE COVER 3/4" SHORTER THAN THREADED PIPE SLIP PIPE COVER OVER THREADED PIPE</p>	<p>CD CORD / CABLE MOUNT SJ CORD WITH 1/16 SS CABLE</p>  <p>ADJUST AND LOCKS</p> <p>ORDER: CD (Length) SPECIFY LENGTH: CD36 - 36" CD72 - 72" CD144 - 144" CDLC(XX) Custom Length (Specify in Inches)</p>	<p>HC HOOK & CORD FOR INDEPENDENT MOUNTING</p>  <p>ORDER: HC (Length) SPECIFY LENGTH: HC36 - 36" HC72 - 72" HC144 - 144" HCLC(XX) Custom Length (Specify in Inches)</p>	<p>NMX 1/2" NPT Hub 3/4" NPT Hub FOR INDEPENDENT MOUNTING</p>  <p>ORDER: NMX (Length) SPECIFY LENGTH: NM2(12) - 12" Leads are Standard NM3(12) - 12" Leads are Standard NMXLC(XX) Custom Length (Specify in Inches)</p>
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*MAXIMUM ONE PIECE STEM LENGTH IS 72". **MAXIMUM ONE PIECE STEM LENGTH IS 36". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

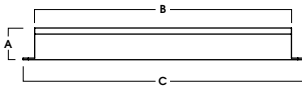
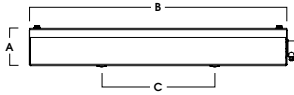
EMERGENCY BATTERY OPTIONS

EMCR - LARGE DRIVER CANOPY FOR 10W EMERGENCY BATTERY



Ø 9.0
3.25

REMOTE EMERGENCY BATTERY OPTIONS

<p>EMRM* - 7W REMOTE EMERGENCY BATTERY (50' MAX)</p>  <table border="1"> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> <tr> <td>1.3</td> <td>12.6</td> <td>13.0</td> </tr> </table>	A	B	C	1.3	12.6	13.0	<p>EMEN* - 7W REMOTE EMERGENCY BATTERY WITH ENCLOSURE (50' MAX)</p>  <table border="1"> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> <tr> <td>2.0</td> <td>17.0</td> <td>6.2</td> </tr> </table>	A	B	C	2.0	17.0	6.2
A	B	C											
1.3	12.6	13.0											
A	B	C											
2.0	17.0	6.2											

*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY

COLOR OPTIONS - POWDER COAT PAINT FINISHES

NOTE: NO PRINTED IMAGE CAN EQUAL THE EXACT COLOR OF FINISH ON METAL.
SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION.



STANDARD CORD / STEM / CANOPY FINISHES

FIXTURE COLOR	STANDARD CORD COLOR	STANDARD CANOPY / STEM COLOR
Matte White, Textured White	Matte White	Matte White
Gloss White	Matte White	Gloss White
Matte Black, Gloss Black, Textured Black	Matte Black	Matte Black
All Others	Matte Black	Same Color as Fixture
Custom Color	Contact Factory	Contact Factory

PAINT TIMES

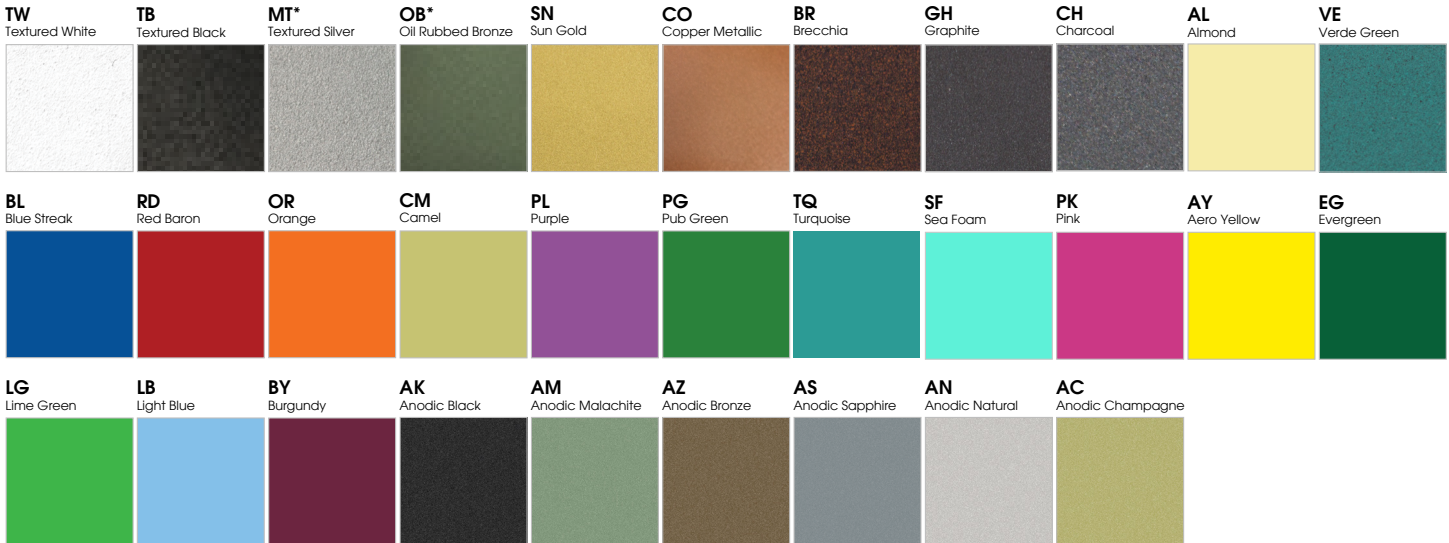
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

TIER 1 - STANDARD FINISHES



TIER 2 - TYPICAL FINISHES



CUSTOM COLOR FINISHES

CONTACT FACTORY

CC
Custom Color



*UNAVAILABLE FOR WET LOCATION