



12" Low/Mid/High Bay 14650 Lm Dome Housing



DHH115GV

APPLICATION

Lumen Max GV series performance pendant offers a unique design for low, mid-bay and high-bay applications.

FEATURES

Domed Fixture Housing (DDH) features a contemporary design that is easy to maintain. Single-stage optical system for smooth light distribution. LED module and driver designed for ease of maintenance and replacement. Optional safety cable. Variety of 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

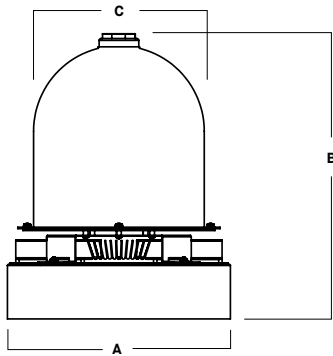
GV LED system features high brightness white Samsung LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80/90. Custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers.

CONSTRUCTION

Machined and spun aluminum housing with aluminum light shroud. Extruded and machined 6063-T5 aluminum heat sink.

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
11.8 299.7 mm	15.0 381 mm	9.0 228.6 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
DHH115GV110L	10988	77	143
DHH115GV150L	11914	102	117
DHH115GV180L	14651	116	126

¹ Nominal Delivered Lumens at 35K

SERIES	LUMENS ¹	CCT	DRIVER / DIMMING ²	OPTIONS ³	MOUNTING ⁴	FINISH ⁵	MOUNTING OPTION ¹¹	
DHH115GV	110L 150L 180L	11000 Lm 11900 Lm 14650 Lm	80 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K	EX Electronic Driver, 120V/277V DS10X 10% 0-10V, 120V/277V DO10X 1% 0-10V, 120V/277V	2CIR 2 Circuit SC1 Safety Cable	HM ⁵ Hang Straight PM ⁵ Rigid Pendant CD ⁵ Cord / Cable Mount HC ^{5/6/7} Hook & Cord NM2 ^{6/7/8} 1/2" NPT Hub NM3 ^{9/7/8} 3/4" NPT Hub	MW ¹⁰ Matte White MB ¹⁰ Matte Black PT ¹⁰ Platinum Silver CC Custom Color	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures
			90 CRI 27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K			EMERGENCY BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure		

EXAMPLE: DHH115GV110L27KEX/HM36/PT

NOTES:
¹ Nominal Delivered Lumens at 35K ² Contact Factory for Additional Options ³ See Product Options Page for Details ⁴ See Mounting Page for Details on Components and Finishes 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 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: _____



PERFORMANCE PENDANT

DHH SERIES / FIXTURE OPTIONS



STANDARD FINISHES

MW
MATTE WHITE



MB
MATTE BLACK



PT
PLATINUM SILVER



MOUNTING TYPES

HM / PM
HANG STRAIGHT / PENDANT



DHH115GV SHOWN WITH PM

CD
CORD / CABLE MOUNT



DHH115GV SHOWN WITH CD

HC
HOOK CORD



DHH115GV SHOWN WITH HC

NM
NO MOUNT



DHH115GV 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

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:</p> <table border="0"> <tr> <td>HM3 - 3"</td> <td>HM24 - 24"</td> </tr> <tr> <td>HM6 - 6"</td> <td>HM36 - 36"</td> </tr> <tr> <td>HM12 - 12"</td> <td>HM48 - 48"</td> </tr> <tr> <td>HM18 - 18"</td> <td>HM72 - 72"</td> </tr> </table> <p>HMLC(XX) Custom Length (Specify in Inches)</p> <p>TO TRIM HM STEM IN FIELD ORDER FCHMA KIT.</p>	HM3 - 3"	HM24 - 24"	HM6 - 6"	HM36 - 36"	HM12 - 12"	HM48 - 48"	HM18 - 18"	HM72 - 72"	<p>PM* - Rigid Pendant Mount</p> <p>RIGID 5/8" OD STEM - 3/8" IP</p> <p>ORDER: PM (Length) SPECIFY LENGTH:</p> <table border="0"> <tr> <td>PM3 - 3"</td> <td>PM24 - 24"</td> </tr> <tr> <td>PM6 - 6"</td> <td>PM36 - 36"</td> </tr> <tr> <td>PM12 - 12"</td> <td>PM48 - 48"</td> </tr> <tr> <td>PM18 - 18"</td> <td>PM72 - 72"</td> </tr> </table> <p>PMLC(XX) Custom Length (Specify in Inches)</p>	PM3 - 3"	PM24 - 24"	PM6 - 6"	PM36 - 36"	PM12 - 12"	PM48 - 48"	PM18 - 18"	PM72 - 72"	<p>CD - Cord / Cable Mount</p> <p>SJ CORD WITH 1/16 SS CABLE</p> <p>ORDER: CD (Length) SPECIFY LENGTH:</p> <p>CD36 - 36" CD72 - 72" CD144 - 144" CDLC(XX) Custom Length (Specify in Inches)</p>	<p>HC - Hook & Cord</p> <p>FOR INDEPENDENT MOUNTING</p> <p>ORDER: HC (Length) SPECIFY LENGTH:</p> <p>HC36 - 36" HC72 - 72" HC144 - 144" HCLC(XX) Custom Length (Specify in Inches)</p>	<p>NM2 - 1/2" NPT Hub NM3 - 3/4" NPT Hub FOR INDEPENDENT MOUNTING</p> <p>ORDER: NMX (Length) SPECIFY LENGTH:</p> <p>NM2(12) - 12" Leads are Standard NM3(12) - 12" Leads are Standard NMXXC(XX) Custom Length (Specify in Inches)</p>
HM3 - 3"	HM24 - 24"																			
HM6 - 6"	HM36 - 36"																			
HM12 - 12"	HM48 - 48"																			
HM18 - 18"	HM72 - 72"																			
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PM12 - 12"	PM48 - 48"																			
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<p>*MAXIMUM ONE PIECE STEM LENGTH IS 72". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.</p>																				

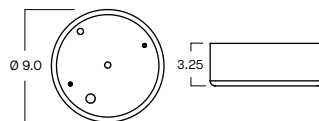
MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



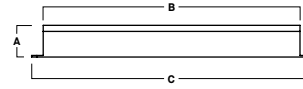
EMERGENCY BATTERY OPTIONS

EMCR - Large Driver Canopy For 10W Emergency Battery



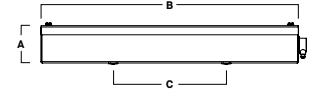
REMOTE EMERGENCY BATTERY OPTIONS

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



PERFORMANCE PENDANT

DHH SERIES / PHOTOMETRIC DATA



DHH1115GV-180L-40K-EX-MB

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								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				
	0.00°		0° - 10°	639	4%	10.0'	57 fc	27.5'	19 fc	22'	20'	36	0.31	28	0.31
	5.00°	5,728	0° - 20°	2,214	15%	12.0'	40 fc	33.1'	13 fc	26'	22''*	23	0.20	18	0.20
	10.00°	5,690	0° - 30°	4,622	31%	14.0'	29 fc	38.6'	10 fc	32'	24''**	21	0.18	10	0.11
	15.00°	5,587	0° - 40°	7,560	51%	16.0'	22 fc	44.1'	7 fc	Delivered Illuminance Rating: (DIR)					
	20.00°	5,395	0° - 60°	12,986	88%	20.0'	14 fc	55.1'	5 fc	4' Suspension Length					
	30.00°	4,998	0° - 80°	14,686	100%	24.0'	10 fc	66.1'	3 fc	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					
	40.00°	4,332	0° - 90°	14,688	100%	28.0'	7 fc	77.1'	2 fc	* Average Footcandles at 2.5' Above Floor					
	50.00°	3,373	Total	14,688	100%	32.0'	6 fc	88.1'	2 fc	* Exceeds spacing criteria by 0%					
	60.00°	2,082								** Exceeds spacing criteria by -13%					
	70.00°	721								*** Exceeds spacing criteria by -27%					
	80.00°	10													
	90.00°	0													

Delivered Lumens: 14,688
Luminaire Watts: 116
LER: 126.62

CP at 0deg (Nadir): 5,728
CRI: 85+

Beam Angle: 108.07
Spacing Ratio: 1.29

Lamp Multiplier: 110L x 0.75, 150L x 0.81
CCT Multiplier: 0.944 for 27K, 30K and 35K

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. = $\frac{1}{2}$ 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. 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"> - 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.: $W/ \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

