14" Low/Mid/High Bay 3150 Lm

Indirect Illumination

LUMEN MAX HIGH BAY LUMINAIRES

PA1415GV

APPLICATION

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

FEATURES

Lumen Max prismatic acrylic refractors provide excellent area illumination with 19% upward and 81% downward distribution. Variety of mounting methods. LED module and driver designed for ease of maintenance and replacement. Five year warranty.

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

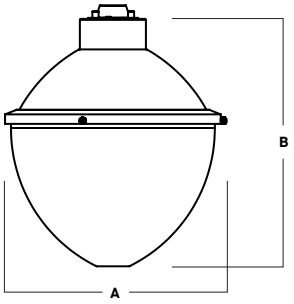
GV LED system features high brightness white Samsung LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80/90. Custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers.

CONSTRUCTION

Fixture shades are spun in our factory from 0.060" high purity aluminum. Refractor is molded UV stabilized acrylic with clear prismatic options.

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
13.3 337.8 mm	15.5 393.7 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS[1]	SYSTEM WATTS	LPW
PA1415GV15L	1290	10	129
PA1415GV27L	2333	18	129
PA1415GV37L	3156	26	121

1 Nominal Delivered Lumens at 35K

SERIES	LUMENS[1]		CCT		DRIVER / DIMMING[2]		OPTIONS[3]		MOUNTING[4]		FINISH[7]		MOUNTING OPTION[9]	
PA1415GV	15L	1300 Lm	80 CRI		EX	Electronic Driver, 120V/277V	FS	Fusing	RDC5	Small Driver Canopy	MW[8]	Matte White	FCHMA	Field Cuttable Mounting Kit for Hang Mount Fixtures
	27L	2350 Lm	27K	2700K	DS10X	10% 0-10V, 120V/277V			HM_[5]	Hang Straight	MB[8]	Matte Black		
	37L	3150 Lm	30K	3000K	DO10X	1% 0-10V, 120V/277V			PM_[5]	Rigid Pendant	PT[8]	Platinum Silver		
			35K	3500K					CD_[5]	Cord / Cable Mount	CC	Custom Color		
			40K	4000K										
			90 CRI						EMERGENCY BATTERY OPTIONS					
			27HK	2700K					EMCR[6]	10W Canopy Mounted EM				
			30HK	3000K					EMRM	7W Remote EM				
			35HK	3500K					EMEN	7W Remote with Enclosure				
			40HK	4000K										

EXAMPLE: PA1415GV37L30KEX/RDC5HM36/MW

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** EMCR Replaces RDC5 **7** Reference Color Sheet Located on Product Webpage for Full List of Available Colors **8** Standard Finishes **9** Field Cuttable Mounting Kit only Available with HM Stem

Spectrum Lighting

PROJECT:

QUANTITY: TYPE:

PRISMATIC ACORN PENDANT

PA SERIES / FIXTURE OPTIONS

LUMEN MAX
HIGH BAY LUMINAIRES

STANDARD FINISHES

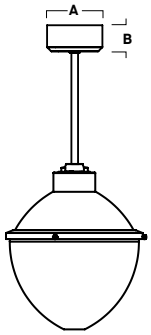
MW
MATTE WHITE

MB
MATTE BLACK

PT
PLATINUM SILVER

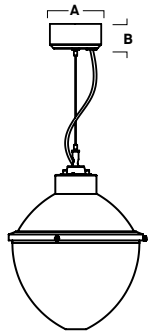
MOUNTING TYPES

HM / PM
HANG STRAIGHT / PENDANT



A	B
5.4 137.2 mm	2.5 63.5 mm

CD
CORD / CABLE MOUNT



A	B
5.4 137.2 mm	2.5 63.5 mm

Spectrum Lighting

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.

LUMEN MAX
HIGH BAY LUMINAIRES

ADDITIONS

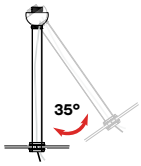
FS - Fusing

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

MOUNTING TYPES

HM* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP



ORDER: **HM** (Length)
SPECIFY LENGTH:

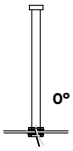
HM3 - 3"	**HM24 -** 24"
HM6 - 6"	**HM36 -** 36"
HM12 - 12"	**HM48 -** 48"
HM18 - 18"	**HM72 -** 72"

HMLC(XX)
Custom Length
(Specify in Inches)

TO TRIM HM STEM IN FIELD ORDER FCHMA KIT.

PM* - Ridgid 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)

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

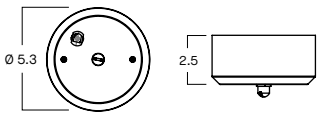
CD - Cord / Cable Mount

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)

CEILING MOUNT CANOPY

RDC5 - Small Driver Canopy
(STANDARD)

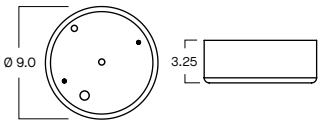


MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures

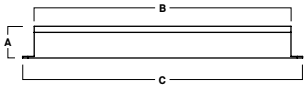
EMERGENCY BATTERY OPTIONS

EMCR - Large Driver Canopy For 10W Emergency Battery



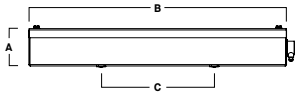
REMOTE EMERGENCY BATTERY OPTIONS

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

Spectrum Lighting

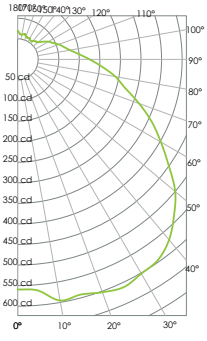
PRISMATIC ACORN PENDANT

PA SERIES / PHOTOMETRIC DATA

LUMEN MAX HIGH BAY LUMINAIRES

PA1415GV-37L-35K-EX-CP13

CANDLEPOWER CURVE



INTENSITY

	0.00°
0.00°	559
20.00°	603
40.00°	573
60.00°	402
80.00°	241
90.00°	175
100.00°	129
110.00°	106
120.00°	86
140.00°	59
160.00°	59
180.00°	69

ZONAL LUMENS

0° - 20°	234	7%
20° - 50°	1,067	34%
50° - 80°	1,048	33%
80° - 90°	225	7%
0° - 90°	2,574	81%
90° - 120°	385	12%
120° - 150°	153	5%
Total	3,162	100%

SINGLE UNIT: PERFORMANCE
INITIAL FOOTCANDLES
BASED ON IES BEAM ANGLE

Mounting Height AFF	FC at Center on Floor
5.5 '	18 fc
6.5 '	13 fc
7.5 '	10 fc
8.5 '	8 fc
10.0 '	6 fc
12.0 '	4 fc
14.0 '	3 fc
16.0 '	2 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
8'	8' *	33	0.34	25	0.34
12'	10' **	29	0.30	22	0.30
16'	12' ***	19	0.20	9	0.13
Delivered Illuminance Rating: (DIR)		97 FC per W/Sq. Ft.		74 FC per W/Sq. Ft.	

2' Suspension Length
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
* Exceeds spacing criteria by 45%
** Exceeds spacing criteria by -16%
*** Exceeds spacing criteria by -34%

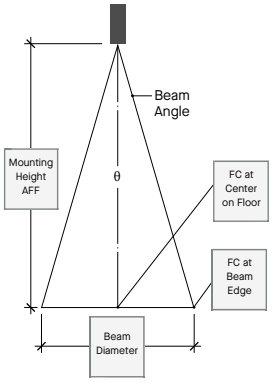
Delivered Lumens: 3,162
Luminaire Watts: 26
LER: 121.62

CP at 0deg (Nadir): 559
CRI: 85+

Lamp Multiplier: 15L x 0.57, 27L x 1.0, 37L x 1.47
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03

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.

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

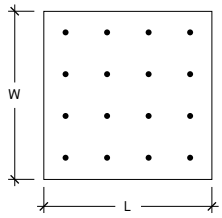
Beam Diam. = ½ Beam Angle (Tan) x 2D

- 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 Spacing^2 ÷ Different Spacing^2 x Chart FC
- To estimate Sq. Ft. per fixture for a specific target FC:
  Sq. Ft. / Fixture = Chart FC x Chart Spacing^2 ÷ Target FC
- To estimate Fixture Quantity in a room:
  Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture
- To estimate Watts/Sq. Ft.:
  W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.

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