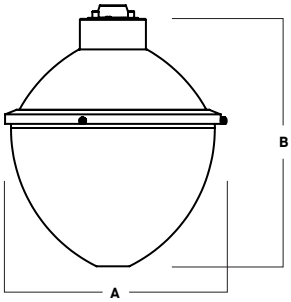
14" Cluster Low/Mid/High Bay 3150 Lm

Indirect Illumination

LUMEN MAX HIGH BAY LUMINAIRES

3XPA1415 SHOWN



A	B
13.3 337.8 mm	15.5 393.7 mm

2X, 3X & 4X CLUSTER DETAILS ON SECOND PAGE

2XPA1415GV, 3XPA1415GV, 4XPA1415GV

APPLICATION

Lumen Max GV series performance pendant for low, mid and high-bay applications. 2X, 3X, and 4X clusters make a bold statement in large spaces.

FEATURES

Lumen Max prismatic acrylic refractors provide excellent area illumination with 19% upward and 81% downward distribution. Single mid-powered LED modules produce up to 3700 lumens. 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.

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 per Acorn at 35K

SERIES	LUMENS[1]	CCT	DRIVER / DIMMING[4]	OPTIONS[5]	MOUNTING[6]	FINISH[9]	MOUNTING OPTION[11]
2XPA1415GV[2] 2 Acorn Cluster **3XPA1415GV**[3] 3 Acorn Cluster **4XPA1415GV**[3] 4 Acorn Cluster	**15L** 1300 Lm **27L** 2350 Lm **37L** 3150 Lm	80 CRI **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K 90 CRI **27HK** 2700K **30HK** 3000K **35HK** 3500K **40HK** 4000K	**EX** Electronic Driver, 120V/277V **DS10X** 10% 0-10V, 120V/277V **DO10X** 1% 0-10V, 120V/277V	**FS** Fusing	DRIVER CANOPY **CP14** Housing for 2X Fixture **CP15** Housing for 3X and 4X Fixture MOUNTING OPTIONS **HM_**[7] Hang Straight **PM_**[7] Rigid Pendant **CD_**[7] Cord / Cable Mount EMERGENCY BATTERY OPTIONS **EMCR**[8] 10W Canopy Mounted EM **EMRM** 7W Remote EM **EMEN** 7W Remote with Enclosure	**MW**[10] Matte White **MB**[10] Matte Black **PT**[10] Platinum Silver **CC** Custom Color	**FCHMA** Field Cuttable Mounting Kit for Hang Mount Fixtures

EXAMPLE: 3XPA1415GV37L30KEX/CP15HM36/MW

NOTES:
1 Nominal Delivered Lumens per Acorn at 35K **2** CP14 Required **3** CP15 Required **4** Contact Factory for Additional Options **5** See Product Options Page for Details **6** See Mounting Page for Details on Components and Finishes **7** Specify Length in Inches: See Mounting Page for Available Lengths **8** EMCR Replaces CP14/CP15 **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

Spectrum Lighting

PROJECT:

QUANTITY: TYPE:

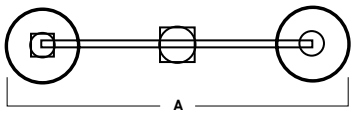
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

PRISMATIC ACORN CLUSTER

PA SERIES / FIXTURE OPTIONS

LUMEN MAX
HIGH BAY LUMINAIRES

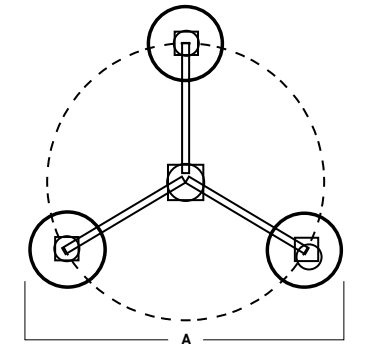
2XPA1415GV - 2 PENDANT CLUSTER



SERIES	A
PA1415 2X[2]	48.0 1219.2 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS[1]	SYSTEM WATTS	LPW
PA14152XLEDGV15L	2580	20	129
PA14152XLEDGV27L	4666	36	129.6
PA14152XLEDGV37L	6312	52	121.4

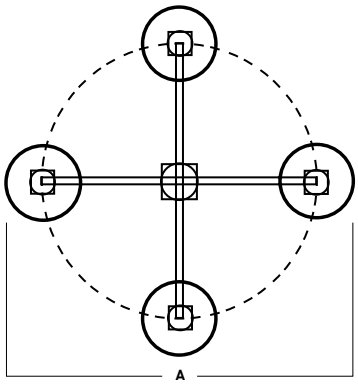
3XPA1415GV - 3 PENDANT CLUSTER



SERIES	A
PA1415 3X[3]	48.0 1219.2 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS[1]	SYSTEM WATTS	LPW
PA14153XLEDGV15L	3870	30	129
PA14153XLEDGV27L	6999	54	129.6
PA14153XLEDGV37L	9468	78	121.4

4XPA1415GV - 4 PENDANT CLUSTER



SERIES	A
PA1415 4X[3]	48.0 1219.2 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS[1]	SYSTEM WATTS	LPW
PA14154XLEDGV15L	5160	40	129
PA14154XLEDGV27L	9332	72	129.6
PA14154XLEDGV37L	12624	104	121.4

NOTES:
1 Nominal Delivered Lumens at 35K with Clear Prismatic Refractors **2** CP14 Required **3** CP15 Required

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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

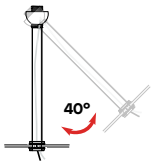
FS - Fusing

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:

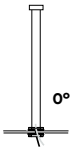
HM3 - 3"	**HM24 -** 24"
HM6 - 6"	**HM36 -** 36"
HM12 - 12"	**HM48 -** 48"
HM18 - 18"	**HM72 -** 72"

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

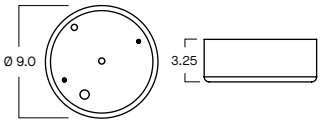
ORDER: **CD** (Length)
SPECIFY LENGTH:
CD36 - 36"
CD72 - 72"
CD144 - 144"
CDLC(XX)
Custom Length
(Specify in Inches)

MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures

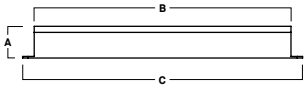
EMERGENCY BATTERY OPTIONS

EMCR - Large Driver Canopy For 10W Emergency Battery



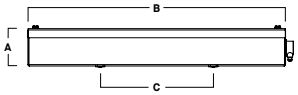
REMOTE EMERGENCY BATTERY OPTIONS

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

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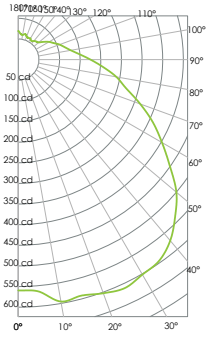
PRISMATIC ACORN PENDANT

PA SERIES / PHOTOMETRIC DATA

LUMEN MAX HIGH BAY LUMINAIRES

PA1415GV-37L-35K-EX-CP13

CANDLEPOWER CURVE



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

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

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

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.	

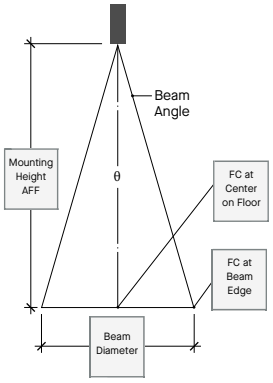
2' Suspension Length
Square rooms used for multiple units:
- RCR 2: Length & Width = Ceiling Ht. -4.5' x 5.00
- RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50

\+ Average Footcandles at 2.5' Above Floor
* Exceeds spacing criteria by 45%
** Exceeds spacing criteria by -16%
*** Exceeds spacing criteria by -34%

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.

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

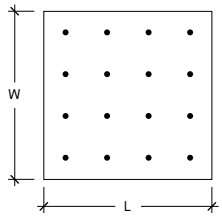
Beam Diam. = ½ Beam Angle (Tan) x 2D

- 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 Spacing² ÷ Different Spacing² x Chart FC
- To estimate Sq. Ft. per fixture for a specific target FC:
  Sq. Ft. / Fixture = Chart FC x Chart Spacing² ÷ 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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