



# 16" Low/Mid/High Bay 4850 Lm

## Extruded Industrial Housing



### PREXT16GV & ALEXT16GV

#### APPLICATION

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

#### FEATURES

Extruded Fixture Housing (EXT) features a clean and modern design. Single-stage optical system for smooth light distribution. LED module and driver designed for ease of maintenance and replacement. Optional safety cable. Variety of optical lenses 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

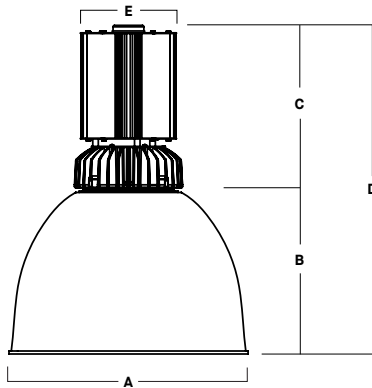
GV LED system features high brightness white Samsung LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80/90. Custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers.

#### CONSTRUCTION

Extruded and machined 6063-T5 aluminum housing. Graphite gasket for optimal thermal management. Die-cast aluminum heat sink. Refractor made of cast UV stabilized acrylic. Reflector made of spun .060" aluminum.

#### 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.



Dimensioned with **PRISMATIC**

SHADES	A	B	C	D	E
<b>PRISMATIC</b>	16.2 411.5 mm	11.2 284.5 mm	10.7 271.8 mm	21.9 556.3 mm	6.5 165.1 mm
<b>ALUMINUM</b>	16.0 406.4 mm	10.4 264.2 mm	10.6 269.2 mm	21.0 533.4 mm	6.5 165.1 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
PREXT16GV15L	1281	10	128
PREXT16GV27L	2237	18	124
PREXT16GV37L	3281	26	126
PREXT16GV55L	4832	39	124

<sup>1</sup> Nominal Delivered Lumens at 35K with PR16, No Lens

SERIES	LUMENS <sup>1</sup>	CCT	DRIVER / DIMMING <sup>2</sup>	SAFETY OPTIONS <sup>3</sup>	MOUNTING <sup>4</sup>	SHADE	ENCLOSURE OPTIONS	OPTIONS	FINISH <sup>15</sup>	MOUNTING OPTION <sup>15</sup>	
PRISMATIC <b>PREXT16GV</b>	15L 1300 Lm 27L 2250 Lm 37L 3300 Lm 55L 4850 Lm	80 CRI	EX Electronic Driver, 120V/277V DS10X 10%, 0-10V, 120V/277V DO10X 1%, 0-10V, 120V/277V	FS Fusing SC1 Safety Cable	HM <sup>14</sup> Hang Straight PM <sup>14</sup> Rigid Pendant CD <sup>14</sup> Cord / Cable Mount HC <sup>14</sup> Hook & Cord NM2 <sup>14</sup> 1/2" NPT Hub NM3 <sup>14</sup> 3/8" NPT Hub	PRISMATIC PR16 16" Clear DF16 16" Diffuse OP16 16" Opal	ACCESSORIES DR16D <sup>10</sup> 16" Spun Door BC16 16" Band Clamp RS16 <sup>10</sup> 16" Refractor Shroud	LENS CNFR Conical Frosted Lens CN Conical Lens DL Drop Lens FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate	SC2 Safety Cable Reflector to door	MW <sup>14</sup> Matte White MB <sup>14</sup> Matte Black PT <sup>14</sup> Platinum Silver CC Custom Color	FCHMA Field Mounting Kit for Hang Mount Fixtures
ALUMINUM <b>ALEXT16GV</b>		90 CRI	27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K		EM. BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	ALUMINUM AL16/MWI <sup>10</sup> Matte White Inside AL16/FCI <sup>10</sup> Fixture Color Inside	DR16DWAG <sup>10/12</sup> 16" Door with Wire Guard WAG16 <sup>10</sup> 16" Wire Guard	FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate None			

**EXAMPLE:** PREXT16GV15L27KEX/HM36/PR16/DR16DCN/MW

**NOTES:**  
 1 Nominal Delivered Lumens at 35K with PR16, No Lens 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 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



PROJECT: \_\_\_\_\_  
 QUANTITY: \_\_\_\_\_ TYPE: \_\_\_\_\_



# 16" PRISMATIC & ALUMINUM

## EXT SERIES / FIXTURE OPTIONS



### SERIES TYPE



### PRISMATIC



### STANDARD FINISHES

**MW**  
MATTE WHITE



PREXT16GV HM MATTE WHITE

**MB**  
MATTE BLACK



PREXT16GV HM MATTE BLACK

**PT**  
PLATINUM SILVER



PREXT16GV HM PLATINUM SILVER

### MOUNTING TYPES

**HM / PM**  
HANG STRAIGHT / PENDANT



PREXT16GV SHOWN WITH PM

**CD**  
CORD / CABLE MOUNT



PREXT16GV SHOWN WITH CD

**HC**  
HOOK CORD



PREXT16GV SHOWN WITH HC

**NM**  
NO MOUNT



PREXT16GV 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

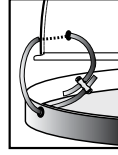
### SC1 - Safety Cable

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.



### SC2 - Safety Cable, Refractor to Door

1/16" Stainless steel cable holds door to fixture



## OPTIONS

### DOOR

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

### LENSES

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



DR16D SHOWN WITH CN

### DOOR & GUARD

**DR16DWAG**-16" Door with Wire Guard

### LENSES

**FO**-White Optical Acrylic  
**PP**-Prismatic Polycarbonate  
**PC**-Clear Polycarbonate



DR16DWAG SHOWN WITH FO

### GUARD OPTION

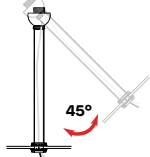
**WAG16**-16" Wire Guard



## MOUNTING TYPES

### HM\* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

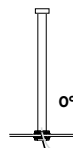


ORDER: **HM** (Length)  
 SPECIFY LENGTH:  
**HM3** - 3"    **HM24** - 24"  
**HM6** - 6"    **HM36** - 36"  
**HM12** - 12"    **HM48** - 48"  
**HM18** - 18"    **HM72** - 72"  
**HMLC(XX)**  
 Custom Length  
 (Specify in Inches)

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)

### CD - Cord / Cable Mount

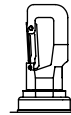
SJ CORD WITH 1/16 SS CABLE



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  
**NMXLC(XX)**  
 Custom Length  
 (Specify in Inches)

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

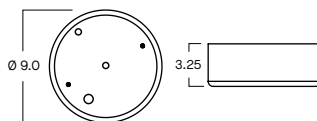
## MOUNTING OPTION

**FCHMA** - Field Cuttable Mounting Kit For Hang Mount Fixtures



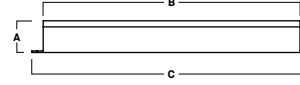
## EMERGENCY BATTERY OPTIONS

**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



# 16" PRISMATIC

## EXT SERIES / PHOTOMETRIC DATA



PRxxx16LEDGV-55L-35K-EX-PR16

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 1		RCR 3					
	0.00°	4,236	0° - 10°	380	8%	8.0'	66 fc	10.1'	33 fc	17'	12'	38	0.29	26	0.24	
	5.00°	4,044	0° - 20°	1,325	27%	10.0'	42 fc	12.6'	21 fc	21'	14'	25	0.20	25	0.23	
	10.00°	3,694	0° - 30°	2,602	54%	10.0'	42 fc	12.6'	21 fc	25'	16'	19	0.15	16	0.15	
	15.00°	3,361	0° - 40°	3,555	74%	12.0'	29 fc	15.1'	14 fc	Delivered Illuminance Rating: (DIR)			128 FC per W/Sq. Ft.		107 FC per W/Sq. Ft.	
	20.00°	3,023	0° - 60°	4,252	88%	14.0'	22 fc	17.6'	11 fc	3' Suspension Length Square rooms used for multiple units: - RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 - RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33						
	30.00°	2,461	0° - 80°	4,622	96%	16.0'	17 fc	20.2'	8 fc	* Average Footcandles at 2.5' Above Floor						
	40.00°	741	0° - 90°	4,709	98%	20.0'	11 fc	25.2'	5 fc	** Exceeds spacing criteria by 15%						
	50.00°	399	Total	4,827	100%	24.0'	7 fc	30.2'	4 fc	*** Exceeds spacing criteria by -10%						
	60.00°	275				28.0'	5 fc	35.3'	3 fc	Lamp Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68						
	70.00°	181								CCT Multiplier: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971						
	80.00°	105														
	90.00°	62														

Delivered Lumens: 4,827  
Luminaire Watts: 39  
LER: 123.77

CP at 0deg (Nadir): 4,236  
CRI: 80+

Beam Angle: 64.1  
Spacing Ratio: 0.91

Lamp Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971



# 16" ALUMINUM

## EXT SERIES / PHOTOMETRIC DATA



ALxxx16LEDGV-55L-35K-EX-AL16

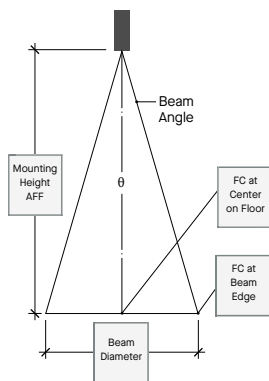
CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE		MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Ceiling Height	Fixture Spacing	RCR 1		RCR 3	
	0.00°		0° - 10°	287	6%	Mounting Height AFF FC at Center on Floor 8.0'      48 fc 10.0'      31 fc 12.0'      21 fc 14.0'      16 fc 16.0'      12 fc 20.0'      8 fc 24.0'      5 fc 28.0'      4 fc	Ceiling Height Fixture Spacing 17'    12' * 21'    14' ** 25'    16' ***	FC * W/Sq. Ft. 35      0.29 24      0.20 18      0.15	FC * W/Sq. Ft. 23      0.23 15      0.15	Delivered Illuminance Rating: (DIR) 120 FC per W/Sq. Ft.      98 FC per W/Sq. Ft.
	0.00°	3,056	0° - 20°	1,043	23%					
	20.00°	2,505	0° - 30°	2,127	47%					
	40.00°	790	0° - 40°	3,131	70%					
	60.00°	367	0° - 60°	3,961	88%					
	80.00°	105	0° - 80°	4,431	99%					
	90.00°	11	0° - 90°	4,490	100%					
			Total	4,490	100%					
	Delivered Lumens: 4,490 Luminaire Watts: 39 LER: 115.13	CP at 0deg (Nadir): 3,056 CRI: 85+	Lamp Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68 CCT Multiplier: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971							

ALxxx16LEDGV-55L-35K-EX-AL16-xx16-F090

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 1	
	0.00°		0° - 10°	256	6%	Mounting Height AFF FC at Center on Floor Beam Diameter FC at Beam Edge 8.0'    41 fc    11.0'    20 fc 10.0'    26 fc    13.7'    13 fc 12.0'    18 fc    16.5'    9 fc 14.0'    13 fc    19.2'    7 fc 16.0'    10 fc    21.9'    5 fc 20.0'    7 fc    27.4'    3 fc 24.0'    5 fc    32.9'    2 fc 28.0'    3 fc    38.4'    2 fc	Ceiling Height Fixture Spacing 17'    12' * 21'    14' ** 25'    16' ***	FC * W/Sq. Ft. 31      0.29 21      0.20 16      0.15	FC * W/Sq. Ft. 21      0.23 13      0.15	Delivered Illuminance Rating: (DIR) 107 FC per W/Sq. Ft.      88 FC per W/Sq. Ft.
	0.00°	2,638	0° - 20°	974	25%					
	5.00°	2,649	0° - 30°	1,932	49%					
	10.00°	2,651	0° - 40°	2,736	69%					
	15.00°	2,563	0° - 60°	3,631	92%					
	20.00°	2,394	0° - 80°	3,941	99%					
	30.00°	1,711	0° - 90°	3,966	100%					
	40.00°	891	Total	3,966	100%					
	50.00°	520								
	60.00°	314								
70.00°	141									
80.00°	43									
90.00°	6									
Delivered Lumens: 3,966 Luminaire Watts: 39 LER: 101.69	CP at 0deg (Nadir): 2,638 CRI: 80+	Beam Angle: 68.81 Spacing Ratio: 1.04	Lamp Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68 CCT Multiplier: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971							

### 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.

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

$$\text{Beam Diam.} = \frac{1}{2} \text{Beam Angle (Tan)} \times 2D$$

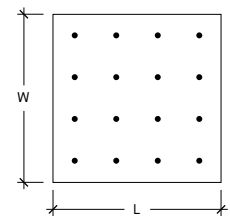
- CP Candela at 0° (Nadir)
- Cos θ Cosine of θ Angle
- D Distance (Mounting Height AFF)
- FC<sub>H</sub> Footcandles, Horizontal
- Beam Angle Cone of light to 50% max. CP
- Beam Diam. Pattern of light at Beam Angle

#### 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.

