



16" Mid/High Bay 4850 Lm

Surface Mounted



PRSUR16GV

APPLICATION

Lumen Max GV series surface mount low ceiling application for mid and high-bay applications. Prismatic refractor provides horizontal and vertical distribution.

FEATURES

Shallow surface low bay (SUR) series for store fronts and lower ceiling high-bays. 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. A wide variety of standard and custom finishes are available. All exposed materials are chromate pretreated to resist corrosion.

ELECTRONICS

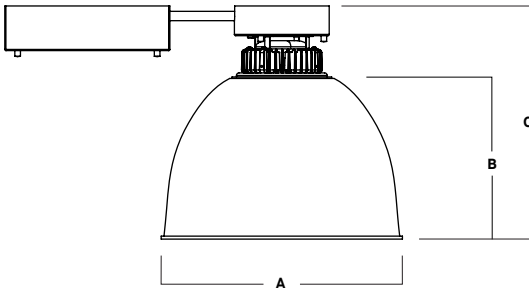
GV LED system features high brightness white Samsung LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80/90. Custom LED configurations are available, consult factory. Variety of electronic 120V/277V and dimming drivers.

CONSTRUCTION

Extruded and machined 6063-T5 aluminum housing. Die-cast aluminum heat sink. 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 | 10.9 | 15.7 |
| 411.5 mm | 276.9 mm | 398.8 mm |

| LUMENS / WATTAGE DATA | | | |
|-----------------------|-------------------------------|--------------|-----|
| PART NUMBER | DELIVERED LUMENS ¹ | SYSTEM WATTS | LPW |
| PRSUR16GV15L | 1281 | 10 | 128 |
| PRSUR16GV27L | 2237 | 18 | 124 |
| PRSUR16GV37L | 3281 | 26 | 126 |
| PRSUR16GV55L | 4832 | 39 | 124 |

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

| SERIES | LUMENS ¹ | CCT | DRIVER / DIMMING ² | SAFETY OPTIONS ³ | MOUNTING ⁴ | REFRACTOR | DIFFUSER OPTIONS | OPTIONS | FINISH ⁷ | |
|-----------|---------------------|--|---------------------------------|-----------------------------|-----------------------|---|---|--|------------------------------------|--|
| PRSUR16GV | 15L 1300 Lm | 80 CRI | EX Electronic Driver, 120V/277V | FS Fusing | SM Surface Mount | DF16 16" Diffuse PR16 16" Clear OP16 16" Opal | ACCESSORIES DR16D ⁶ 16" Spun Door BC16 16" Band Clamp RS16 ⁶ 16" Refractor Shroud DR16DWAG ⁶ 16" Door with Wire Guard WAG16 ⁶ 16" Wire Guard | LENS CNFR Conical Frosted Lens CN Conical Lens DL Drop Lens FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate None | SC2 Safety Cable Reflector to door | MW ⁸ Matte White MB ⁸ Matte Black PT ⁸ Platinum Silver CC Custom Color |
| | 27L 2250 Lm | 27K 2700K | | | | | | | | |
| | 37L 3300 Lm | 90 CRI | | | | | | | | |
| | 55L 4850 Lm | 27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K | | | | | | | | |

EXAMPLE: PRSUR16GV55L35KEX/SM/PR16/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 Same Finish as Housing
 6 No Color 7 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 8 Standard Finishes



PROJECT: _____
 QUANTITY: _____ TYPE: _____



16" PRISMATIC

SUR SERIES / FIXTURE OPTIONS



STANDARD FINISHES

MW
MATTE WHITE



MB
MATTE BLACK

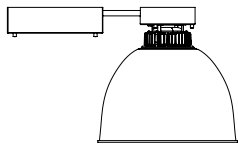


PT
PLATINUM SILVER



MOUNTING TYPES

SM
SURFACE MOUNT



ADDITIONS

FS - FUSING

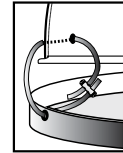
Slow blow type fuse protects fixture against voltage surges. Factory installed.



SAFETY CABLE OPTIONS

SC2 - SAFETY CABLE

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



16" PRISMATIC

SUR SERIES / FIXTURE OPTIONS



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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------------------------------------|-----------------|--|--|--|---|-----------------|-------|--|-------|--|------|-----------|------|-----------|-----|-------|----|------|----|------|-----|--------|----|------|----|------|-----|---------|----|------|----|------|-------------------------------------|--|----------------------|--|----------------------|--|
| | 0.00° | 0° - 10° | 380 | 8% | <table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 1</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>17'</td> <td>12" *</td> <td>38</td> <td>0.29</td> <td>26</td> <td>0.24</td> </tr> <tr> <td>21'</td> <td>14" **</td> <td>25</td> <td>0.20</td> <td>25</td> <td>0.23</td> </tr> <tr> <td>25'</td> <td>16" ***</td> <td>19</td> <td>0.15</td> <td>16</td> <td>0.15</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">128 FC per W/Sq. Ft.</td> <td colspan="2">107 FC per W/Sq. Ft.</td> </tr> </tbody> </table> <p>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 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 15% ** Exceeds spacing criteria by -1% *** Exceeds spacing criteria by -10%</p> | Ceiling Height | Fixture Spacing | RCR 1 | | RCR 3 | | FC * | W/Sq. Ft. | FC * | W/Sq. Ft. | 17' | 12" * | 38 | 0.29 | 26 | 0.24 | 21' | 14" ** | 25 | 0.20 | 25 | 0.23 | 25' | 16" *** | 19 | 0.15 | 16 | 0.15 | Delivered Illuminance Rating: (DIR) | | 128 FC per W/Sq. Ft. | | 107 FC per W/Sq. Ft. | |
| | Ceiling Height | Fixture Spacing | RCR 1 | | | | | RCR 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | FC * | W/Sq. Ft. | | FC * | W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17' | 12" * | 38 | 0.29 | | 26 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21' | 14" ** | 25 | 0.20 | | 25 | 0.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 25' | 16" *** | 19 | 0.15 | | 16 | 0.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 4.236 | 0° - 20° | 1,325 | 27% | | <p>CP at 0deg (Nadir): 4,236 CRI: 80+</p> <p>Beam Angle: 64.1 Spacing Ratio: 0.91</p> <p>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</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4.044 | 0° - 30° | 2,602 | 54% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.694 | 0° - 40° | 3,555 | 74% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.361 | 0° - 60° | 4,252 | 88% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.023 | 0° - 80° | 4,622 | 96% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.461 | 0° - 90° | 4,709 | 98% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 741 | Total | 4,827 | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 399 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 275 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 181 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 FC, 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.: $\text{W/ Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$ |