



SECURITY LED

GSE 120 (2X2) SERIES (2X4 AVAILABLE)

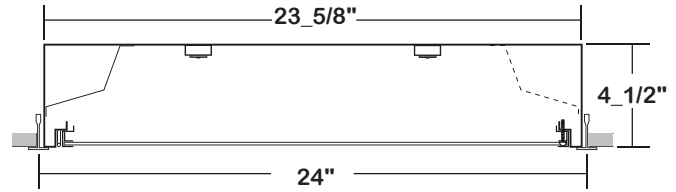
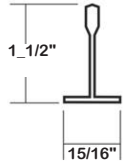
HIGH IMPACT GRID SECURITY LUMINAIRE

| | |
|------|--|
| DATE | |
| JOB | |

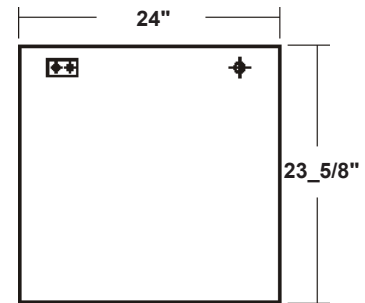
WWW.LALIGHTING.COM
626-454-8300

RECESSED MOUNTED SECURITY LED LUMINAIRE FOR INVERTED T-BAR CEILING

DIMENSIONS



⊕ 7/8" OFFSET K.O.
⊕ ⊕ ACCESS PLATE



APPLICATIONS

- Security, Office, Classroom, Vandal Resistant Areas, Public Areas, Commercial

FEATURES

- 0-10V dimming driver standard (See *DRIVER OPTIONS* for other dimming types)
- Supports California Title 24 compliance

OPTIONS

- Full customization available upon request
- Additional lumen packages and color temperatures available
- Controls and sensors available (See *SENSOR OPTIONS* for controls and sensors)
- Wireless control options available (See *SENSOR OPTIONS* for wireless controls)
- Variety of lenses available (See *OPTICAL OPTIONS* for lenses)
- Emergency battery pack available (See *BATTERY PACK OPTIONS* for battery pack options)

SPECIFICATIONS

CONSTRUCTION

- 20 ga. cold rolled steel welded housing
- 20 ga. cold rolled steel door frame secured by stainless steel piano hinge and 2 captive stainless steel tamper proof screws
- Inner frame lens retainer rail
- One way polyurethane gasket standard (See *GASKET* for gasket options)

FINISH

- Baked white powder coated finish / painted after fabrication / minimum reflectance 90%

OPTICAL

- High impact clear prismatic acrylic lens (nominal 0.187) standard

ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

LISTING

- UL USA and Canada listed / suitable for damp locations

WARRANTY

- 5-year limited warranty



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Revised 01-09-19

WARNING

ORDERING INFORMATION

EXAMPLE: GSE120-6-2L-FSW-DRP8-BPL10-1DRDM-UNV-2/840

| SERIES | LED LUMEN PACKAGE | EFFICACY | NOMINAL LENGTH | DOOR FRAME | OPTICAL | MECHANICAL | ELECTRICAL | DRIVER | VOLTAGE | # OF LED ROW | CRI / CCT |
|--|---|--|----------------------|---|--|---|--|---|--|---|---|
| GSE120 | | | 2L | FSW | | | | 1DRDM | UNV | | |
| GSE120 High Impact Grid Security LED Luminaire | 2 Nom. 2000 Lumens 3 Nom. 3000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens 12 Nom. 12000 Lumens *Additional Lumen Packages Available | (Blank) Standard HE High Efficacy (Only 2000 / 3000 / 4000 / 6000 / 12000 lumens Systems) | 2L 2' x 2' | FSW Flat Steel White Enamel Door Frame See <u>DOOR FRAME for Options</u> | DRP8 High Impact Clear Prismatic Acrylic Nominal 0.187 DRP2 High Impact Clear Prismatic Acrylic Nominal 0.125 PPC2 Clear Prismatic Polycarbonate Nominal 0.125 See <u>OPTICAL OPTIONS for Options</u> | GSKN1 One-Way Neoprene Gasket *Leave Blank if Not Specified See <u>GASKET for Options</u> <u>Additional Mechanical Options</u> | BPL10 Emergency Battery Pack, Constant 10W Nom. 1500 lm See <u>BATTERY PACK OPTIONS for Options</u> MSxx Motion Sensor WLC(LED RU) EnOcean Wireless Control See <u>SENSOR OPTIONS for Options</u> *Leave Blank if Not Specified <u>Additional Electrical Options</u> | 1DRDM 0-10V One Dimming Driver See <u>DRIVER OPTIONS for Options</u> | UNV 120V-277V See <u>DRIVER OPTIONS for Options</u> | 2 Two LED Rows (Only 2000 / 3000 / 4000 / 6000 / 8000 lumens Systems) 4 Four LED Rows (Only 12000 lumens System) | 830 80+CRI / 3000K Color Temp. 835 80+CRI / 3500K Color Temp. 840 80+CRI / 4000K Color Temp. 850 80+CRI / 5000K Color Temp. *Additional Color Temp. Available |

SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

| LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT / HID / CFL EQUIVALENT | IES FILES |
|------------------------|---|------------------|--------------|--------------------|---------------|--|----------------------------|
| 2000 Lumens (Nominal) | GSE120-2-2L-DRP8-1DRDM-UNV-2/840 | 1627 lm | 15.7 W | 103.5 lm/W | -20°C / 35°C | 2-F17T8, 1-F24T5HO, 1-BX40 | * |
| 3000 Lumens (Nominal) | GSE120-3-2L-DRP8-1DRDM-UNV-2/840 | 2386 lm | 24.3 W | 98.1 lm/W | -20°C / 35°C | 3-F17T8, 1-BX55 | * |
| 4000 Lumens (Nominal) | GSE120-4-2L-DRP8-1DRDM-UNV-2/840 | 3108 lm | 33.1 W | 93.9 lm/W | -20°C / 35°C | 4-F17T8, 2-F24T5HO, 100 W (MH), 2-BX40 | LA-T3176-4 |
| 6000 Lumens (Nominal) | GSE120-6-2L-DRP8-1DRDM-UNV-2/840 | 4444 lm | 52.3 W | 84.9 lm/W | -20°C / 35°C | 6-F17T8, 3-F24T5HO, 2-BX55 | * |
| 8000 Lumens (Nominal) | GSE120-8-2L-DRP8-1DRDM-UNV-2/840 | 6001 lm | 53.8 W | 111.6 lm/W | -20°C / 35°C | 4-F24T5HO, 175 W (MH), 4-BX40 | * |
| 12000 Lumens (Nominal) | GSE120-12-2L-DRP8-1DRDM-UNV-4/840 | 9122 lm | 79.3 W | 115.1 lm/W | -20°C / 35°C | 6-F24T5HO, 250 W (MH), 4-BX55 | * |

| LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT / HID / CFL EQUIVALENT | IES FILES |
|------------------------|---|------------------|--------------|--------------------|---------------|--|-----------|
| 2000 Lumens (Nominal) | GSE120-2HE-2L-DRP8-1DRDM-UNV-2/840 | 1544 lm | 12.7 W | 121.6 lm/W | -20°C / 35°C | 2-F17T8, 1-F24T5HO, 1-BX40 | * |
| 3000 Lumens (Nominal) | GSE120-3HE-2L-DRP8-1DRDM-UNV-2/840 | 2314 lm | 19.2 W | 120.2 lm/W | -20°C / 35°C | 3-F17T8, 1-BX55 | * |
| 4000 Lumens (Nominal) | GSE120-4HE-2L-DRP8-1DRDM-UNV-2/840 | 3073 lm | 25.9 W | 118.5 lm/W | -20°C / 35°C | 4-F17T8, 2-F24T5HO, 100 W (MH), 2-BX40 | * |
| 6000 Lumens (Nominal) | GSE120-6HE-2L-DRP8-1DRDM-UNV-2/840 | 4559 lm | 39.6 W | 115.0 lm/W | -20°C / 35°C | 6-F17T8, 3-F24T5HO, 2-BX55 | * |
| 12000 Lumens (Nominal) | GSE120-12HE-2L-DRP8-1DRDM-UNV-4/840 | 8892 lm | 104.6 W | 85.0 lm/W | -20°C / 35°C | 6-F24T5HO, 250 W (MH), 4-BX55 | * |

NOTE:
System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application.

This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.

Additional lumen packages and color temperatures available.

PERFORMANCE DATA

[VIEW PHOTOMETRICS](#)



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SENSOR OPTIONS

HIGH FREQUENCY - INTERNALLY MOUNTED BEHIND FIXTURE LENS

MSHPC - Motion Sensor High Frequency (Microwave) with Photocell Option

- Super high frequency motion sensor (also known as microwave sensor) which detects movement when installed behind low density fixture materials, such as polycarbonate, acrylic and glass diffusers
- Holds lights OFF when sufficient daylight is present regardless of motion detection
- Selectable sensitivity and detection area
- Universal Voltage (120V-277V)
- Photocell is disabled by default

MSH - Motion Sensor High Frequency (Microwave)

- Super high frequency motion sensor (also known as microwave sensor) which detects movement when installed behind low density fixture materials, such as polycarbonate, acrylic and glass diffusers
- Turns light ON/OFF based on motion detection
- Universal Voltage (120V-277V)

MSHPCD - Motion Sensor High Frequency (Microwave) with Photocell Dimming Option

- Super high frequency motion sensor (also known as microwave sensor) which detects movement when installed behind low density fixture materials, such as polycarbonate, acrylic and glass diffusers
- Holds lights OFF when sufficient daylight is present regardless of motion detection
- Variably dims output to desired preset level and stand-by period when unoccupied (full on with motion)
- Selectable sensitivity and detection area
- Universal Voltage (120V-277V)
- Photocell dimming is disabled by default



CONTROLS AND SENSORS

WLC(LED RU) - EnOcean® LED Relay Zone Controller

- Supports a single LED fixture or multiple daisy chained LED fixtures
- Module installed inside lighting fixture

ESRPU-W-EO - EnOcean® Rocker Switch – Single – Surface Mount

- Wireless single rocker switch with mounting plate
- No batteries needed

EDRPU-W-EO - EnOcean® Rocker Switch – Double – Surface Mount

- Wireless double rocker switch with mounting plate
- No batteries needed

S3054-N300 - EnOcean® Navigan NWC 300U – Commissioning Tool

- Navigan Wireless Commissioner is used to configure EnOcean controllers & sensors
- It can be used to define link tables, change parameters/settings, and to edit & store projects
- Configuration settings can be saved and cloned to enable quick configuration
- Connectivity is through the NWC 300U USB Stick

EOSWU-W-EO - EnOcean® Occupancy Sensor – Wall Mount

- Wireless wall mounted occupancy sensor
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- PIR motion sensor with both wide angle (50') and long range (100') options
- Mounting height: 6-8 feet

EOSCU-W-EO - EnOcean® Occupancy Sensor – Ceiling Mount

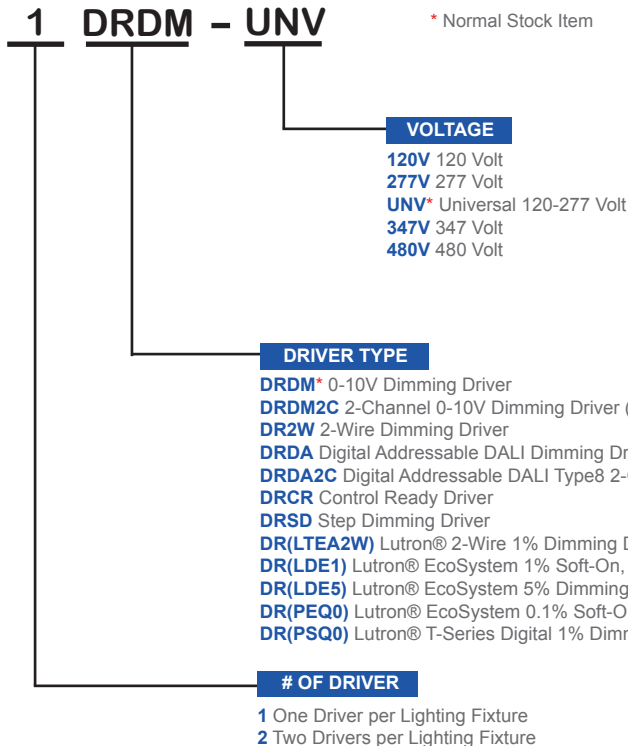
- Wireless ceiling mounted occupancy sensor
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- PIR motion sensor with 360 degree viewing angle lens (34' diameter)
- Mounting height: 7-10 feet

ELLSU-W-EO - EnOcean® Light Level Sensor – Ceiling Mount

- Light Level sensor that measures and reports the level of available natural light
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- Enables implementation of daylight harvesting control systems
- Mounting position: At the ceiling, close to ambient light source

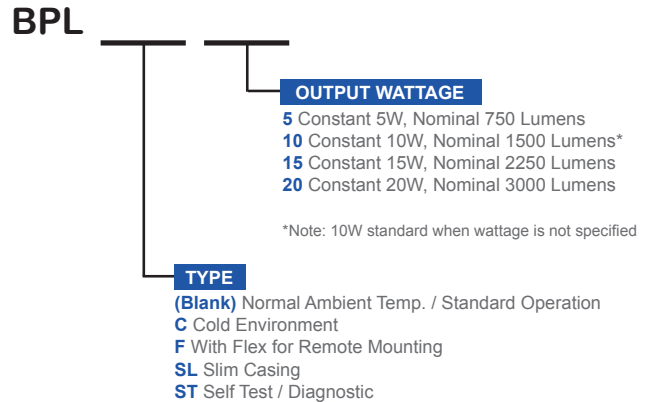
DRIVER OPTIONS

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED DRIVER OPTION WORKS WITH THIS FIXTURE.



BATTERY PACK OPTIONS

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OPTICAL OPTIONS

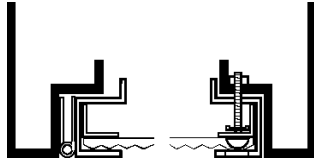
STANDARD LENSES FOR GSE120

| | |
|-------------|--|
| DRP8 | High Impact Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base |
| DRP2 | High Impact Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base |
| PPC2 | Clear Prismatic Polycarbonate, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base |

[CLICK HERE FOR FULL OPTICAL OPTIONS LIST](#)

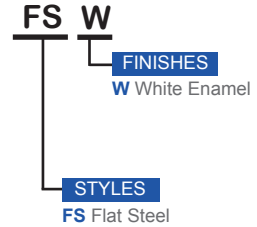
DOOR FRAME

CROSS SECTION

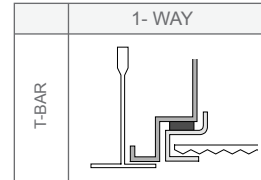
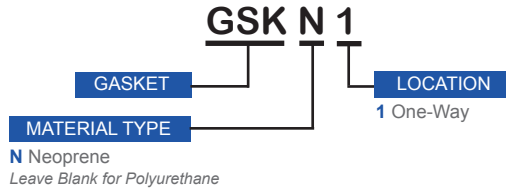


FEATURES

- Full Length Piano Hinge
- Two Captive Tamper Proof Screws (Hex Socket with Post)
- Inner Frame Lens Retainer Rail



GASKET



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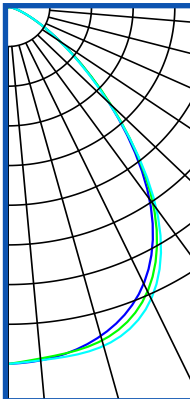
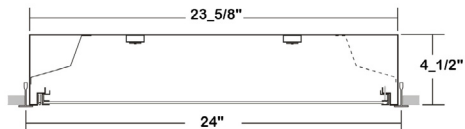
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PHOTOMETRIC DATA - GSE120 SERIES

GSE120-4-2L-DRP8-1DRDM-UNV-2/840

TEST NO.=LA-T3176-4
 LED TYPE=48 LED MODULE
 NO. OF MODULE=2
 SYSTEM WATT (W)=33.1
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



CANDLEPOWER

| ANGLE | END | 45 | CROSS |
|-------|------|------|-------|
| 0 | 1797 | 1797 | 1797 |
| 5 | 1787 | 1777 | 1786 |
| 15 | 1715 | 1738 | 1767 |
| 25 | 1537 | 1581 | 1622 |
| 35 | 1181 | 1211 | 1237 |
| 45 | 686 | 695 | 683 |
| 55 | 307 | 304 | 301 |
| 65 | 109 | 110 | 110 |
| 75 | 31 | 30 | 31 |
| 85 | 4 | 4 | 4 |
| 90 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 |

ZONAL LUMEN SUMMARY

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30 | 1395 | 32.5 | 44.8 |
| 0-40 | 2155 | 50.3 | 69.3 |
| 0-60 | 2963 | 69.1 | 95.3 |
| 0-90 | 3108 | 72.5 | 100.0 |
| 90-120 | .03 | 0.0 | 0.0 |
| 90-150 | .03 | 0.0 | 0.0 |
| 90-180 | .03 | 0.0 | 0.0 |
| 0-180 | 3108 | 72.5 | 100.00 |

Luminaire Output= 3108 lumens
 Luminaire Efficacy = 93.9 lm/W

SPACING CRITERION

| ALONG | ACROSS |
|-------|--------|
| 1.13 | 1.18 |

