



**Gardco GeoForm block small LED wall sconce** features a compact geometric design that will complement a range of architectural styles. GeoForm is available with two light engines: precision plus optics which feature type 2, 3, and 4 distributions, as well as light effects optics which offer wall wash, spot, and pencil beam distributions. GeoForm with light effects may be inverted for a wet location upright option. A diffuse lens is also available for over doorway applications. Emergency battery backup option provides path-of-egress illumination, and multiple control options further enhance energy savings.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Ordering guide

example: GBS-A03-840-T3M-UNV-MG

| Luminaire                     |                       | Configuration<br>(nom. lumens) | Color<br>Temperature  | Distribution          | Voltage         | Dimming Controls <sup>2</sup>                                                             | Electrical                                                       | Emergency                                                                          | Finish                                                                                                 |                                                                                                                                                                           |                                                |
|-------------------------------|-----------------------|--------------------------------|-----------------------|-----------------------|-----------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| GBS                           |                       |                                |                       |                       |                 |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
| GBS    GeoForm<br>Block Small | Precision Plus optics |                                |                       |                       | 120    120V     | none    Leave blank<br>(0-10V<br>dimming<br>driver<br>standard)                           | none    Leave blank<br>(10kV kA surge<br>protection<br>standard) | none    Leave blank<br><br>EM <sup>1,6</sup> Emergency<br>Battery Pack<br>(0-40°C) | Textured<br><br>BK    Black<br>WH    White<br><br>BZ    Bronze<br>DG    Dark Gray<br>MG    Medium Gray |                                                                                                                                                                           |                                                |
|                               | A01 <sup>1</sup>      | 1,500<br>lumens                | 830    80CRI<br>3000K | T2M Type 2            | 208    208V     |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               | A02 <sup>1</sup>      | 2,500<br>lumens                | 840    80CRI<br>4000K | T3M Type 3            | 240    240V     |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               | A03                   | 4,000<br>lumens                | 740    70CRI<br>4000K | T4M Type 4            | 277    277V     |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               | A04                   | 5,000<br>lumens                | 750    70CRI<br>5000K | DFL Diffusing<br>lens | UNV    120-277V |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               | A05                   | 6,000<br>lumens                |                       |                       | 347    347V     | DLEA <sup>2</sup> Dimming<br>Leads<br>Externally<br>Accessible<br>(controls by<br>others) | SP2    Surge<br>Protector<br>20kV/10kA<br>(option)               | FS1    Single Fuse<br>(120, 277, or<br>347VAC)                                     |                                                                                                        |                                                                                                                                                                           |                                                |
|                               |                       |                                |                       |                       | 480    480V     |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               |                       |                                |                       |                       | HVU    347-480V |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               |                       |                                |                       |                       |                 |                                                                                           |                                                                  |                                                                                    | FAWS <sup>2</sup> Field<br>Adjustable<br>Wattage<br>Selector                                           | FS2    Double Fuse<br>(208V, 240V,<br>or 480V)                                                                                                                            | FS2    Double Fuse<br>(208V, 240V,<br>or 480V) |
|                               |                       |                                |                       |                       |                 |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               | Light Effects optics  |                                |                       |                       |                 |                                                                                           |                                                                  |                                                                                    |                                                                                                        | Customer specified<br><br>OC    Specify optional<br>color or RAL,<br>contact factory<br><br>SC    Special Color<br>(must supply color<br>chip, requires<br>factory quote) |                                                |
|                               | B01 <sup>3</sup>      | 700<br>lumens                  | 830    80CRI<br>3000K | WAW Wall Wash         |                 |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               | B02 <sup>3</sup>      | 1,100<br>lumens                | 840    80CRI<br>4000K | SPT Spot              |                 |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
|                               | B03 <sup>3</sup>      | 2,200<br>lumens                |                       | PEN Pencil<br>Beam    |                 |                                                                                           |                                                                  |                                                                                    |                                                                                                        |                                                                                                                                                                           |                                                |
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1. Only available in 120- 277V or UNV.

2. Only one option can be selected from Dimming Controls column.

3. Not available with Emergency battery pack.

4. 120-277V only. Luminaire must be ordered with DLEA option if using WIAP.

5. Only available in 120-277, must specify voltage

6. Not Available with "Light Effects" B01, B02, B03.

### Luminaire Accessories (order separately)

**GF-WS-BK** Wall Mounted Box for surface conduit, painted black.

# GBS    GeoForm block small

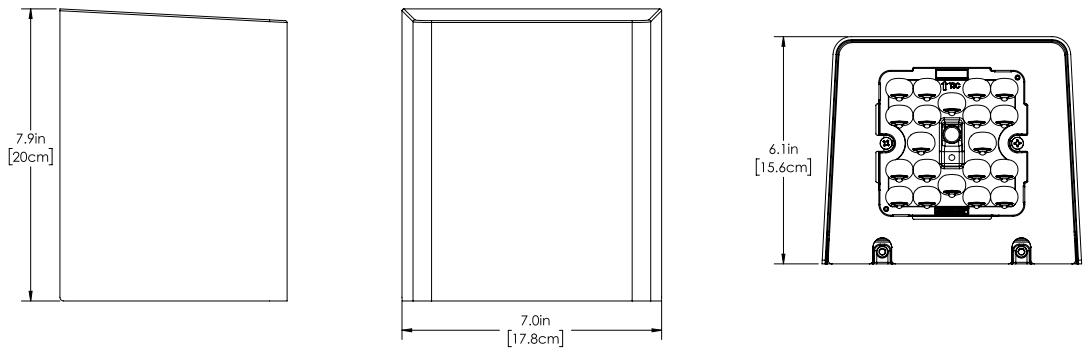
## Wall sconce

### Dimensions

GBS Small Block

Standard

Weight: 6.3 Lbs (2.8kg)

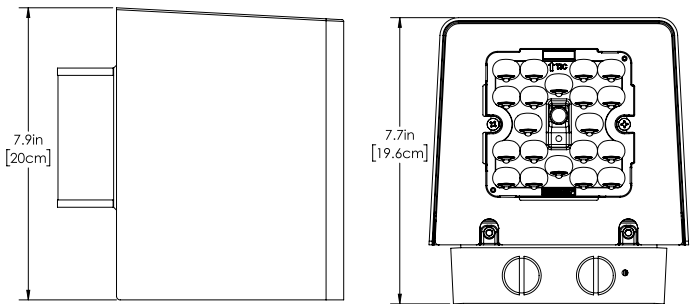


### Accessory details

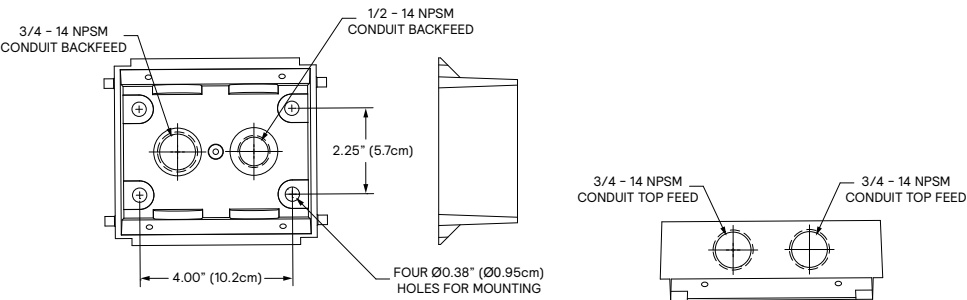
#### Surface mount conduit box (GF-WS-BK)

GBS Block with surface conduit wall mount box

Weight: 6.9 Lbs (3.1kg)



### GF-WS-BK Details



# GBS    GeoForm block small

## Wall sconce

### GBS Lumen values

#### 3000K, 80CRI

| Ordering Code | CCT  | CRI | Average System Wattage | Type 2M      |            |                | Type 3M      |            |                | Type 4M      |            |                |
|---------------|------|-----|------------------------|--------------|------------|----------------|--------------|------------|----------------|--------------|------------|----------------|
|               |      |     |                        | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) |
| GBS-A01-830   | 3000 | 80  | 10                     | 1483         | B1-U0-G1   | 145            | 1503         | B1-U0-G1   | 147            | 1467         | B0-U0-G1   | 144            |
| GBS-A02-830   | 3000 | 80  | 17                     | 2478         | B1-U0-G1   | 147            | 2511         | B1-U0-G1   | 149            | 2452         | B1-U0-G1   | 145            |
| GBS-A03-830   | 3000 | 80  | 25                     | 3522         | B1-U0-G1   | 143            | 3570         | B1-U0-G1   | 145            | 3485         | B1-U0-G1   | 142            |
| GBS-A04-830   | 3000 | 80  | 34                     | 4601         | B1-U0-G1   | 137            | 4664         | B1-U0-G1   | 139            | 4553         | B1-U0-G1   | 136            |
| GBS-A05-830   | 3000 | 80  | 41                     | 5501         | B2-U0-G2   | 134            | 5575         | B2-U0-G2   | 136            | 5443         | B1-U0-G1   | 132            |

#### 4000K, 80CRI

| Ordering Code | CCT  | CRI | Average System Wattage | Type 2M      |            |                | Type 3M      |            |                | Type 4M      |            |                |
|---------------|------|-----|------------------------|--------------|------------|----------------|--------------|------------|----------------|--------------|------------|----------------|
|               |      |     |                        | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) |
| GBS-A01-840   | 4000 | 80  | 10                     | 1537         | B1-U0-G1   | 151            | 1558         | B1-U0-G1   | 153            | 1521         | B0-U0-G1   | 149            |
| GBS-A02-840   | 4000 | 80  | 17                     | 2569         | B1-U0-G1   | 152            | 2604         | B1-U0-G1   | 154            | 2542         | B1-U0-G1   | 151            |
| GBS-A03-840   | 4000 | 80  | 25                     | 3652         | B1-U0-G1   | 148            | 3701         | B1-U0-G1   | 150            | 3613         | B1-U0-G1   | 147            |
| GBS-A04-840   | 4000 | 80  | 34                     | 4771         | B1-U0-G1   | 142            | 4835         | B2-U0-G2   | 144            | 4721         | B1-U0-G1   | 141            |
| GBS-A05-840   | 4000 | 80  | 41                     | 5703         | B2-U0-G2   | 139            | 5780         | B2-U0-G2   | 141            | 5643         | B1-U0-G2   | 137            |

#### 4000K, 70CRI

| Ordering Code | CCT  | CRI | Average System Wattage | Type 2M      |            |                | Type 3M      |            |                | Type 4M      |            |                |
|---------------|------|-----|------------------------|--------------|------------|----------------|--------------|------------|----------------|--------------|------------|----------------|
|               |      |     |                        | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) |
| GBS-A01-740   | 4000 | 70  | 10                     | 1732         | B1-U0-G1   | 170            | 1756         | B1-U0-G1   | 172            | 1714         | B1-U0-G1   | 168            |
| GBS-A02-740   | 4000 | 70  | 17                     | 2895         | B1-U0-G1   | 171            | 2934         | B1-U0-G1   | 174            | 2865         | B1-U0-G1   | 170            |
| GBS-A03-740   | 4000 | 70  | 25                     | 4115         | B1-U0-G1   | 167            | 4171         | B1-U0-G1   | 170            | 4072         | B1-U0-G1   | 166            |
| GBS-A04-740   | 4000 | 70  | 34                     | 5376         | B2-U0-G2   | 160            | 5449         | B2-U0-G2   | 163            | 5320         | B1-U0-G1   | 159            |
| GBS-A05-740   | 4000 | 70  | 41                     | 6427         | B2-U0-G2   | 156            | 6514         | B2-U0-G2   | 158            | 6359         | B1-U0-G2   | 155            |

#### 5000K, 70CRI

| Ordering Code | CCT  | CRI | Average System Wattage | Type 2M      |            |                | Type 3M      |            |                | Type 4M      |            |                |
|---------------|------|-----|------------------------|--------------|------------|----------------|--------------|------------|----------------|--------------|------------|----------------|
|               |      |     |                        | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) | Lumen Output | BUG Rating | Efficacy (LPW) |
| GBS-A01-750   | 5000 | 70  | 10                     | 1663         | B1-U0-G1   | 163            | 1686         | B1-U0-G1   | 165            | 1646         | B1-U0-G1   | 161            |
| GBS-A02-750   | 5000 | 70  | 17                     | 2780         | B1-U0-G1   | 165            | 2818         | B1-U0-G1   | 167            | 2751         | B1-U0-G1   | 163            |
| GBS-A03-750   | 5000 | 70  | 25                     | 3952         | B1-U0-G1   | 161            | 4005         | B1-U0-G1   | 163            | 3910         | B1-U0-G1   | 159            |
| GBS-A04-750   | 5000 | 70  | 34                     | 5163         | B2-U0-G2   | 154            | 5233         | B2-U0-G2   | 156            | 5109         | B1-U0-G1   | 153            |
| GBS-A05-750   | 5000 | 70  | 41                     | 6172         | B2-U0-G2   | 150            | 6255         | B2-U0-G2   | 152            | 6107         | B1-U0-G2   | 149            |

### Light Effects Optics 3000K, 80 CRI

| Ordering Code | CCT  | CRI | Average System Wattage | Wall Wash (WAW) |                | Spot (SPT)   |                | Pencil Beam (PEN) |                |
|---------------|------|-----|------------------------|-----------------|----------------|--------------|----------------|-------------------|----------------|
|               |      |     |                        | Lumen Output    | Efficacy (LPW) | Lumen Output | Efficacy (LPW) | Lumen Output      | Efficacy (LPW) |
| GBS-B01-830   | 3000 | 80  | 8                      | 699             | 88             | 767          | 97             | 66                | 8              |
| GBS-B02-830   | 3000 | 80  | 18                     | 1397            | 78             | 1534         | 86             | 133               | 7              |
| GBS-B03-830   | 3000 | 80  | 30                     | 2446            | 82             | 2685         | 90             | 232               | 8              |

### Light Effects Optics 4000K, 80 CRI

| Ordering Code | CCT  | CRI | Average System Wattage | Wall Wash (WAW) |                | Spot (SPT)   |                | Pencil Beam (PEN) |                |
|---------------|------|-----|------------------------|-----------------|----------------|--------------|----------------|-------------------|----------------|
|               |      |     |                        | Lumen Output    | Efficacy (LPW) | Lumen Output | Efficacy (LPW) | Lumen Output      | Efficacy (LPW) |
| GBS-B01-840   | 4000 | 80  | 8                      | 734             | 92             | 805          | 101            | 70                | 9              |
| GBS-B02-840   | 4000 | 80  | 18                     | 1467            | 82             | 1611         | 90             | 139               | 8              |
| GBS-B03-840   | 4000 | 80  | 30                     | 2568            | 86             | 2819         | 94             | 244               | 8              |

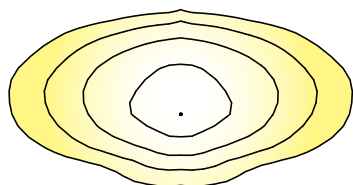
# GBS GeoForm block small

## Wall sconce

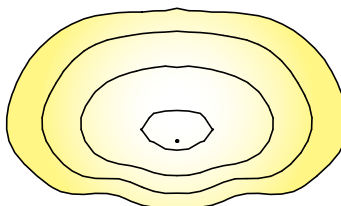
### LED Wattage and Lumen Values (Emergency Mode)

| Ordering Code            | CCT  | CRI | Avg. System Wattage (W) | Type 2       |            | Type 3       |            | Type 4       |            | DFL          |            |
|--------------------------|------|-----|-------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
|                          |      |     |                         | Lumen Output | BUG Rating | Lumen Output | BUG Rating | Lumen Output | BUG Rating | Lumen Output | BUG Rating |
| GBS-A01/2/3/4/5-830-x-EM | 3000 | 80  | 6                       | 856          | B0-U0-G0   | 868          | B0-U0-G0   | 847          | B0-U0-G1   | 717          | B1-U0-G0   |
| GBS-A01/2/3/4/5-840-x-EM | 4000 | 80  | 6                       | 887          | B0-U0-G0   | 899          | B0-U0-G0   | 878          | B0-U0-G1   | 743          | B1-U0-G0   |
| GBS-A01/2/3/4/5-740-x-EM | 4000 | 70  | 6                       | 1000         | B0-U0-G0   | 1014         | B0-U0-G0   | 990          | B0-U0-G1   | 838          | B1-U0-G0   |
| GBS-A01/2/3/4/5-750-x-EM | 5000 | 70  | 6                       | 960          | B0-U0-G0   | 973          | B0-U0-G0   | 950          | B0-U0-G1   | 804          | B1-U0-G0   |

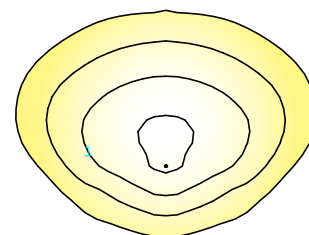
### Optical Distributions



Type 2



Type 3



Type 4

### Specifications

#### Construction

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Removable die cast backplate to allow access to driver or other electronic components for servicing. The housing acts as the main heat sinking component, optimized for maximum thermal dissipation. Giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

**IK Rating** IK08 high impact resistance rating for both the housing and optics

**IP Rating** IP65 rated luminaire with IP66 rated light engine

#### Light engine

Electrical components are RoHS compliant, IP66 sealed light engine equipped LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

#### LED Module

Precision Plus LED printed circuit board assembly made of 20 LEDs populated on aluminum metal clad board for optimal thermal dissipation ensuring long LED life. Light Effects feature single COB LED array.

#### Optical System

Precision Plus optics composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution for optimized spacing, target lumens and a superior lighting uniformity. Performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. 0% uplight and U0 per IESNA TM-15.

Light effects optics composed of low iron tempered clear glass with molded gasket attached to lens without tools or RTV. Lenses provide narrow spot, pencil beam, and wall wash optical distributions.

#### Mounting

Mounting is achieved through integral back plate that features a hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire body. Luminaire ships fully assembled, ready to install.

#### Installation

GeoForm features an integral hook on its mounting plate which allows a single installer to perform wiring without assistance. See installation instructions for complete details.

#### Control options

**0-10V dimming (DLEA):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

| FAWS Position | Percent of Typical Lumen Output |
|---------------|---------------------------------|
| 1             | 25%                             |
| 2             | 50%                             |
| 3             | 55%                             |
| 4             | 65%                             |
| 5             | 75%                             |
| 6             | 80%                             |
| 7             | 85%                             |
| 8             | 90%                             |
| 9             | 95%                             |
| 10            | 100%                            |

**Note:** Typical value accuracy +/- 5%

# GBS    GeoForm block small

## Wall sconce

### Specifications (cont'd)

**Emergency Battery Backup (EM):** Emergency battery packs included integral to the luminaire, allowing for a consistent look between emergency and non-emergency luminaires. Emergency is suitable for use in ambient temperature conditions from 0°C (32°F) to 40°C (104°F) designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120-277V, or 'UNV' only.

#### Electrical

**Driver:** Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. 0-10V dimming driver down to 10% standard. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

#### Listings

**UL/cUL** listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. GeoForm with Precision Plus optics listed for damp locations when inverted. GeoForm with light effects optics listed for wet location in up or down orientation. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). GeoForm configurations with Precision Plus optics are qualified under Design Lights Consortium® Premium category. Consult DLC Qualified Products List on Specific Classifications and for more details. CCTs 3000K and warmer are IDA Dark Sky Approved. FCC Compliant.

### Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L<sub>70</sub> hours limited to 6 times actual LED test hours

| Ambient Temperature °C | Drive current | L <sub>70</sub> per TM-21 | Lumen Maintenance % at 60,000 hrs |
|------------------------|---------------|---------------------------|-----------------------------------|
| 25°C                   | up to 1200 mA | >102,000 hours            | >91%                              |

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) textured polyester powder coat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

#### Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: [signify.com](http://signify.com)

#### Warranty

GeoForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.

