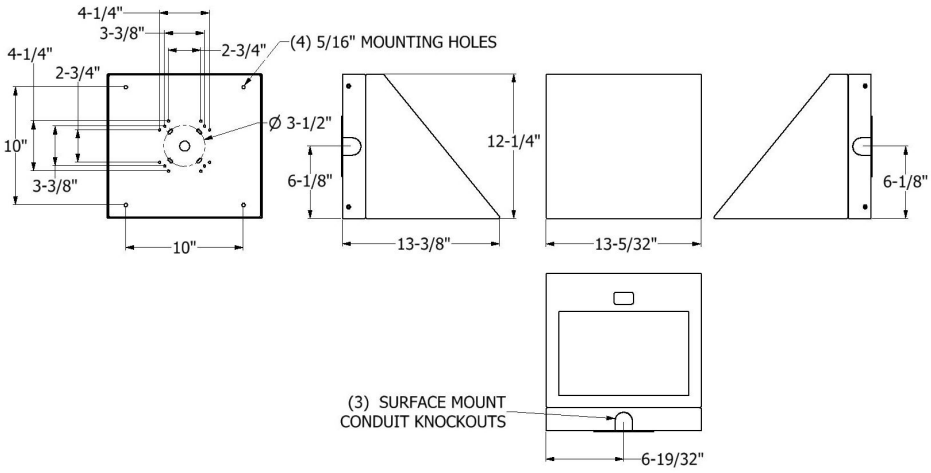
# The Dark Sky Collection
# WEDGE 2
## Indoor/Outdoor — LED

The **Bluetooth**® word mark and logos are registered trademarks owned by **Bluetooth**® SIG, Inc.

## DIMENSIONS




| Catalog Number | |
|---|---|
| Project Name & Location | Type |

## Product Specifications

**HOUSING:** All aluminum 14-gauge construction, seam welded and ground smooth for watertight seal. Housing sealed at factory and does not require opening for installation. Finished in textured bronze oven baked polyester powder coat as standard.

**MOUNTING PLATE:** Die formed 14-gauge aluminum wall mount plate. Mounts to all standard junction boxes. Can also be four-point surface mounted for when surface conduit is required.

**LED MOUNTING PLATE:** 14-gauge aluminum, designed to thermally manage LED light engines for long life and performance. Finished sky white polyester powder coat.

**LENS:** 1/8" Clear Polycarbonate (F) is standard. Optional: 1/8" K12 Prismatic Polycarbonate (C), 5/32" K12 Prismatic Polycarbonate (D), or 1/8" Frosted Polycarbonate Lens (CFP).

**LENS FASTENERS:** 14-gauge die formed aluminum. Secures lens with a watertight seal into housing.

**GASKETING:** High temperature, non-aging black EPDM or neoprene rubber applied around the entire lens perimeter and housing plate to provide a watertight seal and protect from environmental contaminants.

**DRIVER:** Universal Voltage 120/277V Electronic Driver with 0-10V dimming. Optional: 347V driver

**LIGHT ENGINE:** High efficacy, long life LED light engines offered in 3000K, 4000K and 5000K.

**EMERGENCY BACKUP:** Integral Emergency Battery. Cold Weather Available.

**COMPLIANCE:** Built to comply with U.S. and Canadian safety standards. Suitable for Wet Locations. **Buy American Act, Build America/Buy America Act, and Dark Sky compliant.**

## order example:

**WG2-DN-FT-LED30-CT4-80CRI-UNV-BZ-BLD**

**SERIES**

| | |
|---|---|
| WG2 | Wedge 2 Series |

**STYLE**

| | |
|---|---|
| UP | Uplight (Indirect - Indoor Only) |
| DN | Downlight (Direct - Dark Sky Compliant) |

**DISTRIBUTION TYPE**

| | |
|---|---|
| FT | Forward Throw Distribution |
| WS | Wide Spread Distribution |

**LED WATTAGE**

| | |
|---|---|
| LED15 | 15 Watt LED (2015 Lumens) |
| LED20 | 20 Watt LED (2750 Lumens) |
| LED25 | 25 Watt LED (3325 Lumens) |
| LED30 | 30 Watt LED (3850 Lumens) |
| LED40 | 40 Watt LED (4275 Lumens) |

**LED COLOR TEMPERATURE (CCT)**

| | |
|---|---|
| CT3 | ±3000K LED Color Temp |
| CT35 | ±3500K LED Color Temp |
| CT4 | ±4000K LED Color Temp |
| CT5 | ±5000K LED Color Temp |

**COLOR RENDERING INDEX (CRI)**

| | |
|---|---|
| 80CRI | 80 Color Rendering Index (STANDARD) |
| 90CRI | 90 Color Rendering Index (Not Available for 5K) |

**VOLTAGE**

| | |
|---|---|
| 347 | 347 Volts |
| UNV | 120~277 Universal Volt Electronic Driver |

**STANDARD FINISH**

| | |
|---|---|
| BK | Black |
| BZ | Bronze |
| PA | Painted Aluminum |
| WHT | White |

**PREMIUM UPCHARGE FINISH**

| | |
|---|---|
| CC | Custom Color (Visit www.ralcolor.com) *– Provide RAL# or Make-to-Match Color Chip* |

**INHIBITOR FINISH**

| | |
|---|---|
| +NAT | Epoxy Coating for Natatorium |
| +OFC | Epoxy Coating for Ocean Front Environments |

**LENS OPTIONS**

| | |
|---|---|
| C | K12 Prismatic Polycarbonate Lens .125" thick |
| D | K12 Prismatic Polycarbonate Lens .156" thick |
| F | Clear Polycarbonate Lens .125" thick - STANDARD |
| CFP | Clear Frosted Polycarbonate Lens Filter for LED |

**MISC OPTIONS**

| | |
|---|---|
| FUS | Single Fusing |
| FUS2 | Double Fusing |
| TPS | Tamperproof Screws |

**PHOTOCELL OPTION**

| | |
|---|---|
| PHTD | Photocell Button (120/277V) |

**Additional Options on PAGE 2**

CGF design Inc | PO Box 911 | Morton Grove, IL 60053 | p: 847.815.5079 | f: 847.470.9828 | http://www.cgfdesigninc.com | sales@cgfdesigninc.com

## PHOTOMETRIC PERFORMANCE DATA

| Model Number | Lumens | LPW | Wattage | BUG Rating |
|---|---|---|---|---|
| **WG2-DN-WS-LED15-CT3-80CRI-UNV-F** | 2,514.6 Lumens | 165.4 LPW | 15.2W | B1-U1-G1 |
| **WG2-DN-FT-LED20-CT3-80CRI-UNV-F** | 1,539.1 Lumens | 74.0 LPW | 20.8W | B1-U0-G0 |
| **WG2-DN-FT-LED20-CT35-80CRI-UNV-F** | 1,606.2 Lumens | 77.2 LPW | 20.8W | B1-U0-G0 |
| **WG2-DN-FT-LED20-CT4-80CRI-UNV-F** | 1,672.0 Lumens | 80.4 LPW | 20.8W | B1-U0-G0 |
| **WG2-DN-FT-LED20-CT5-80CRI-UNV-F** | 1,664.1 Lumens | 80.0 LPW | 20.8W | B1-U0-G0 |
| **WG2-DN-WS-LED25-CT3-80CRI-UNV-F** | 3,052.6 Lumens | 122.1 LPW | 25.0W | B1-U1-G1 |
| **WG2-DN-FT-LED25-CT3-80CRI-UNV-F** | 2,084.2 Lumens | 82.7 LPW | 25.2W | B1-U0-G0 |
| **WG2-DN-FT-LED25-CT35-80CRI-UNV-F** | 2,174.2 Lumens | 86.3 LPW | 25.2W | B1-U0-G0 |
| **WG2-DN-FT-LED25-CT4-80CRI-UNV-F** | 2,264.2 Lumens | 89.8 LPW | 25.2W | B1-U0-G0 |
| **WG2-DN-FT-LED25-CT5-80CRI-UNV-F** | 2,253.1 Lumens | 89.4 LPW | 25.2W | B1-U0-G0 |
| **WG2-DN-FT-LED30-CT3-80CRI-UNV-F** | 2,629.2 Lumens | 85.9 LPW | 30.6W | B1-U0-G0 |
| **WG2-DN-FT-LED30-CT35-80CRI-UNV-F** | 2,743.3 Lumens | 89.7 LPW | 30.6W | B1-U0-G1 |
| **WG2-DN-FT-LED30-CT4-80CRI-UNV-F** | 2,857.4 Lumens | 93.4 LPW | 30.6W | B1-U0-G1 |
| **WG2-DN-FT-LED30-CT5-80CRI-UNV-F** | 2,843.2 Lumens | 92.9 LPW | 30.6W | B1-U0-G1 |
| **WG2-DN-WS-LED40-CT3-80CRI-UNV-F** | 4,276.0 Lumens | 109.4 LPW | 39.1W | B2-U1-G1 |
| **WG2-DN-FT-LED40-CT3-80CRI-UNV-F** | 3,205.3 Lumens | 85.7 LPW | 37.4W | B1-U0-G1 |
| **WG2-DN-FT-LED40-CT35-80CRI-UNV-F** | 3,344.4 Lumens | 89.4 LPW | 37.4W | B1-U0-G1 |
| **WG2-DN-FT-LED40-CT4-80CRI-UNV-F** | 3,483.6 Lumens | 93.1 LPW | 37.4W | B2-U3-G2 |
| **WG2-DN-FT-LED40-5K-80CRI-UNV-83** | 3,466.2 Lumens | 92.7 LPW | 37.4W | B2-U0-G1 |

**CONTROL OPTIONS (Choose Dimming or Sensor)**

**MANUAL CONTROL** (Wall Switch or Control System)
**Note: Cannot be used with Sensor Controls Below**
**Note: 0-10V (100-30%) Dimming is Standard**

- 0-10D1 — 0-10VDC LED Dimming Driver (100-10%)
- 0-10D2 — 0-10VDC LED Dimming Driver (100-1%)
- BLS — Bi-Level Switching (Includes Two Drivers)

**OR**

**SENSOR CONTROL** (Sensor Integral to Fixture)
**Note: Cannot be used with Manual Controls Above**
**Note: Motion Sensor Max Mounting Height 18-Feet**
**Note: See Accessory Options for Required Remote**

- OCC — Occupancy Sensing | Motion Sensor Integral
  - *– Microwave / Single Feed / 120/277 Only*
  - *– Stand-by Dim Level Presets: On/Off (0%/100%)*
- BLD — Bi-Level Dimming | Motion Sensor Integral
  - *– Microwave / Single Feed / 120/277 Only*
  - *– Stand-by DimLevel Presets:*
    10% / 20% / 30% (Standard) / 50%
- BLDA — Bi-Level Dimming | Motion Sensor Integral
  - *– Ambient Light Sensing Feature (AMB)*
  - *– Microwave / Single Feed / 120/277 Only*
  - *– Stand-by Dim Level Presets:*
    10% / 20% / 30% (Standard) / 50%
  - *– Bi-Level Control Initiated at AMB Light Level Preset*

**TELLELIGHT WIRELESS CONTROL SYSTEM**
**Certified Bluetooth® Mesh Components & Topology**
**Standard Fixture Options: (Questions? Consult Factory)**

- TSC3 — Internal Fixture Controller
  - — McWong Model No.: PSC-WCM-50-BLE-SR
  - — External Antennae Cover
  - — TSC3 Requires Sensor
- TSS14 — Internal PIR low Bay Sensor w/External Lens
  - — McWong Model No.: PSC-BL-I-FM-DC0-BLE-SR

**EMERGENCY BATTERY OPTIONS**

- **Emergency Battery Options Meet California Energy Commission Title 20 [CEC-400-2014-009-CMF] Efficiency Standands (Cold Weather is NON-CEC)**
- **Cold Weather Emergency Batteries Temp Range: -20°C thru 50°C**
- **Max Whip Length for REM is 8ft**

- EM8W — Integral 8 Watt LED
- EM10W — Integral 10 Watt LED
- EM16W — Integral 16 Watt LED
- EM10W-CW — Integral 10 Watt LED - Cold Weather
- REM8W — Remote 8 Watt LED
- REM10W — Remote 10 Watt LED
- REM16W — Remote 16 Watt LED
- REM10W-CW — Remote 10 Watt LED - Cold Weather

**ACCESSORY OPTIONS**
**Order As A Separate Line**

- REMT0019 — Remote Controller for Sensor Options

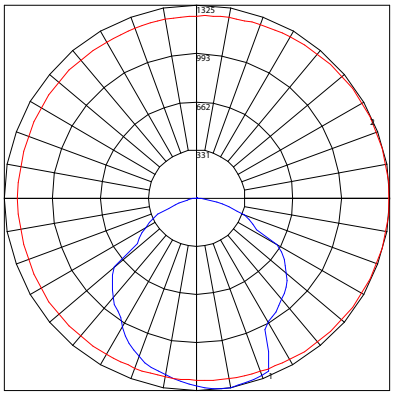
CGF design Inc | PO Box 911 | Morton Grove, IL 60053 | p: 847.815.5079 | f: 847.470.9828 | http://www.cgfdesigninc.com | sales@cgfdesigninc.com

## PHOTOMETRIC GRAPH DATA

| Summary of Results \| WG2-DN-FT-LED40-CT3-80CRI-UNV-F | | | | | |
|---|---|---|---|---|---|
| Lumen Output | Efficacy | Input Power | CCT | Distribution | BUG Rating |
| 3,205.3 Lumens | 85.7 Lm/W | 37.4W | 3000K | Forward Throw | B1-U0-G1 |

| LCS Summary | |
|---|---|
| Zone | Lumens |
| Forward Low (0-30) | 509.9 |
| Forward Medium (30-60) | 891.0 |
| Forward High (60-80) | 282.0 |
| Forward Very High (80-90) | 11.9 |
| Back Low (0-30) | 477.2 |
| Back Medium (30-60) | 819.5 |
| Back High (60-80) | 206.7 |
| Back Very High (80-90) | 7.1 |
| Up Low (90-100) | 0.0 |
| Up High (100-180) | 0.0 |

POLAR GRAPH

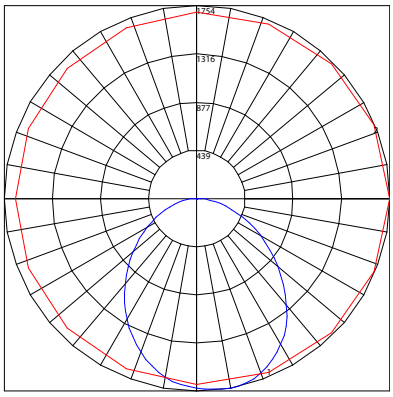



Maximum Candela = 1324.562 Located At Horizontal Angle = 5, Vertical Angle = 10
# 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

| Summary of Results \| WG2-DN-WS-LED40-CT3-80CRI-UNV-F | | | | | |
|---|---|---|---|---|---|
| Lumen Output | Efficacy | Input Power | CCT | Distribution | BUG Rating |
| 4,276.0 Lumens | 109.4 Lm/W | 39.1W | 3000K | Widespread | B2-U1-G1 |

| LCS Summary | |
|---|---|
| Zone | Lumens |
| Forward Low (0-30) | 679.0 |
| Forward Medium (30-60) | 1148.9 |
| Forward High (60-80) | 369.7 |
| Forward Very High (80-90) | 36.2 |
| Back Low (0-30) | 636.5 |
| Back Medium (30-60) | 1028.0 |
| Back High (60-80) | 337.5 |
| Back Very High (80-90) | 39.4 |
| Up Low (90-100) | 0.0 |
| Up High (100-180) | 0.0 |

POLAR GRAPH




Maximum Candela = 1754.161 Located At Horizontal Angle = 360, Vertical Angle = 10
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

## REPORTED LUMEN MAINTENANCE

Data references the extrapolated/reported projections for the Liverpool 2 in a 40°C ambient, based on 17,000 hours of LED testing (tested per IESNA LM-80-08 and projected IESNA TM-21-11). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, LM80 or TM-21 reports, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 75,000 | 100,000 |
|---|---|---|---|---|---|
| Lumen Maintenance Factor | 1 | 0.95 | 0.90 | 0.86 | 0.81 |

CGF design Inc | PO Box 911 | Morton Grove, IL 60053 | p: 847.815.5079 | f: 847.470.9828 | http://www.cgfdesigninc.com | sales@cgfdesigninc.com