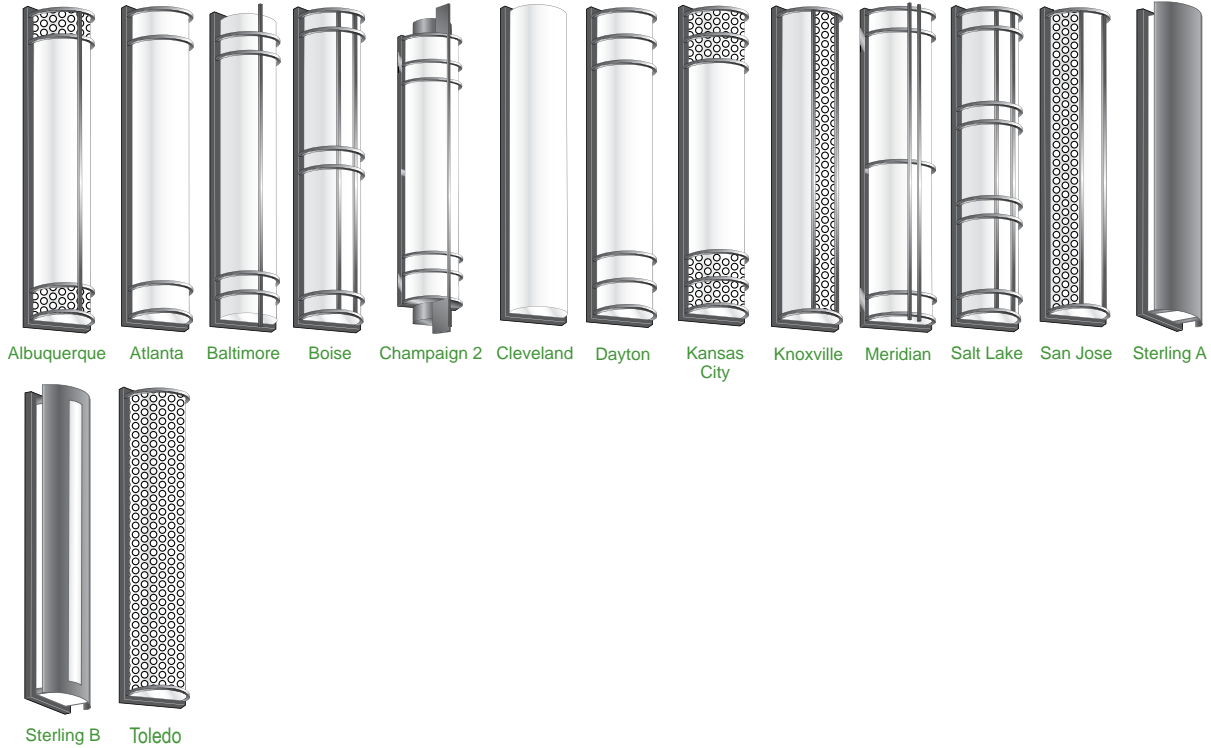
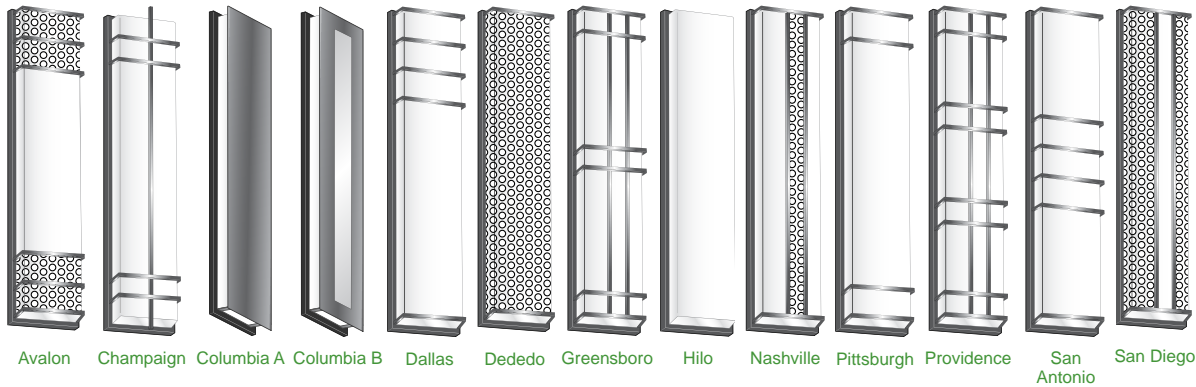


ROUND DIFFUSER

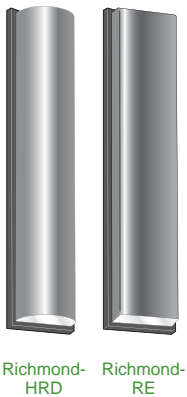


ROUND	
Albuquerque	GO-ALB
Atlanta	GO-AL
Baltimore	GO-BAL
Boise	GO-BOI
Champaign 2	GO-CP2
Cleveland	GO-CD
Dayton	GO-DN
Kansas City	GO-KAN
Knoxville	GO-KNX
Meridian	GO-MER
Salt Lake	GO-SL
San Jose	GO-SNJ
Sterling A	GO-STA
Sterling B	GO-STB
Toledo	GO-TO
SQUARE	
Avalon	GO-AV
Champaign	GO-CP
Columbia A	GO-CLA
Columbia B	GO-CLB
Dallas	GO-DA
Dededo	GO-DDD
Greensboro	GO-GRN
Hilo	GO-HI
Nashville	GO-NSV
Pittsburgh	GO-PIT
Providence	GO-PRO
San Antonio	GO-SNA
San Diego	GO-SND
SHIELD ONLY	
Richmond-HRD	GO-RD-HRD
Richmond-RE	GO-RD-RE

SQUARE DIFFUSER

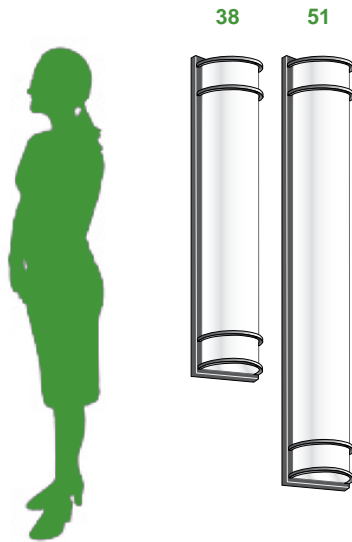


SHIELD ONLY



- Modular design: interchangeable diffusers and cages for rapid installation, relamping and maintenance, as well as the ability to design and build new luminaires to meet the exact needs or specifications.
- Two diffuser shapes: Round or Rectangular
- Custom Color Matching
- Customizable sconces for design flexibility. Timeless and versatile to fulfill all aesthetic and performance needs.
- Standard Energy Efficient LED (Consult factory for Other Lamping)
- Weather and vandal resistant construction — Standard.
- Considerable range in sizes to perfectly match the scale requirements of the exterior and interior setting — ADA Compliant Depth.
- Meets Buy American Act (BAA) Requirements

GOLIATH CLASS SIZES



GOLIATH CLASS				
SIZE	DIMENSIONS	CENTER WATTS ^A	UP/DN WATTS (Round/Square Styles)	UP/DN WATTS (Shield Only Styles)
38	8"W X 38"H x 4"D	15W to 30W (In 5W Increments)	5W/10W UP ^B 5W/10W DN ^B	25W UP ^C 25W DN ^C
51	8"W X 51"H x 4"D	25W to 40W (In 5W Increments)	5W/10W UP ^B 5W/10W DN ^B	25W UP ^C 25W DN ^C

- A** Center LED Wattage NOT Available for Shield Only Styles: Richmond-HRD, Richmond-RE
- B** Conduit Adapter Back Box (CA) Required
- C** 25W Uplight and Downlight ONLY Available for Shield Only Styles: Richmond-HRD, Richmond-RE

Catalog Number	
Project Name & Location	Type



Product Specifications

BACKPLATE: 16 Ga. aluminum (AL).
BACKBOX: 16 Ga. aluminum (AL) with wire access on four sides and back through 7/8" dia. KO flattened water tight (Optional for surface conduit entry or standard with emergency battery).
CAGE: Square extruded aluminum bars permanently secured by hidden means to the frame. Standard configurations shown.
DIFFUSER: White translucent, fully enclosed non-yellowing 100% virgin acrylic, .125 Thick (1/8"). Optional Clear (CTB) top and/or bottom — CTB is Standard with Uplight and/or Downlight. (See Page 3 for More Information)
DRIVER: Universal Volt (120-277v) electronic driver with 0-10VDC dimming is standard.
FASTENERS: Stainless steel tamperproof screws — (2) To secure cage/frame in place.

FINISH: Corrosion and Weather resistant, extremely durable pre-treated oven baked polyester powder.
GASKETING: High Temp., non-aging black EPDM and/or neoprene rubber around the entire lens perimeter & rear wire entrance hole to protect against dust, moisture & outside contaminants.
MOUNTING: Use (4) or (6) 5/16" diameter holes for 1/4" diameter bolts for outdoor or indoor. 7/8" KO in Center for Wire Access.
WALL WASH: CTB is Standard with Uplight or/and Downlight. For wall wash patterns specify: LU (Uplight) or LD (Downlight) or LU/LD (Up and Downlight).
COMPLIANCE: Built to comply with U.S. and Canadian safety standards. Meets Buy American Act (BAA) and American Disability Act (ADA) Requirements. Suitable for wet locations.

ORDER EXAMPLES

EX1: GO-BN-38-LED15-CT4-80CRI-UNV-BK-BLD-REMT
EX2: GO-DN-51-LED25-CT5-80CRI-UNV-BZ-CA51-EM20W

STYLE

Refer to Index Page for Model Name/Code on Page 1
 GO-xx Standard-(xx=Style Code, ex: GO-AL)

SIZE

Select from Sizes: 38 / 51
 Refer to Chart for Dimensions

LED WATTAGE

Refer to Chart for Size/Wattage Compatibility
 See Page 3 for Uplight / Downlight Explanation
LEDxx LED(xx=Wattage, ex: LED30)
 – Center LED NOT Available with Shield Models:
 Richmond-HRD, Richmond-RE

LUxx LED Uplight(xx=Wattage, ex: LU5)
 – Requires Conduit Back Box (CA)

LDxx LED Downlight(xx=Wattage, ex: LD5)
 – Requires Conduit Back Box (CA)

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 Volt
 UNV 120~277 Universal Volt Electronic Driver

STANDARD FINISH

BK Black
 BZ Bronze
 PA Painted Aluminum
 SV Silver Gray
 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

DIFFUSER OPTIONS

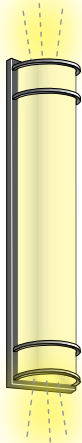
Note: See Page 3 for More Info

CB Clear Bottom
 CT Clear Top
 CTB Clear Top & Bottom (Standard with Up/Down Light)
 OB Open Bottom (Indoor Only)
 OQB Opaque Bottom (No Down Light)
 OQT Opaque Top (No Up Light)
 OQTB Opaque Top & Bottom (No Up/Down Light)

Additional Options on PAGE 2

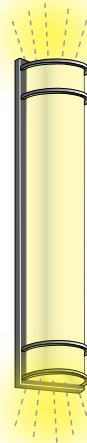
Uplight / Downlight Explained

SCENARIO #1



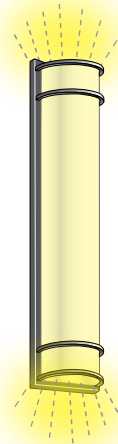
A soft glow is achieved by the natural transmission of light thru the translucent opal diffuser at the top and bottom of fixture (standard).

SCENARIO #2



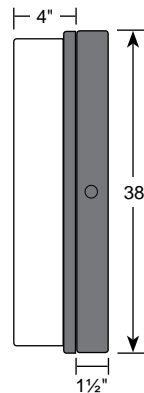
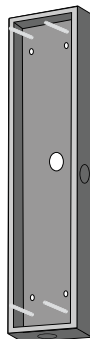
Scenario #1 is enhanced by the addition of a clear top and bottom lens (CTB) to allow more light to spill out both ends of the fixture.

SCENARIO #3



Scenario #2 is further enhanced by the addition of UP/DN light engines to focus even more light out of the top and bottom of the fixture (CTB included).

Why the Back Box?



Backbox shown with Goliath 38 Size.

Back Box Required for:
 Photocell, Emergency Battery, Generator Transfer Device (GN),
 Surface Mounted Conduit Applications and Specific LED Configurations

PHOTOCELL OPTIONS

PHTD Photocell Button (120/277V)
 – Requires Conduit Back Box (CA)

CONTROL OPTIONS (Choose from Manual 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)
 – Requires Conduit Back Box (CA)

OR

SENSOR CONTROL (Sensor Integral to Fixture)
Note: Cannot be used with Manual Controls Above
Note: Motion Sensor Max Mounting Height 18-Feet

OCC Occupancy Sensing / Motion Sensor Integral
 – Microwave / Single Feed / 120/277 Only
 – Stand-by Dimming Level Presets: ON/OFF
 – Requires Conduit Back Box (CA)

BLD Bi-Level Dimming - Motion Sensor Integral
 – Microwave / Single Feed / 120/277 Only
 – Stand-by Dimming Level Presets:
 10% / 20% / 30% / 50%
 – Requires Conduit Back Box (CA)

CONDUIT ADAPTER BACK BOX OPTIONS

Note: For Surface Conduit

CA38 38" x 1.5" Backbox

CA38D 38" x 2.25" Backbox

CA51 51" x 1.5" Backbox

CA51D 51" x 2.25" Backbox

MISC OPTIONS

FUS Fuse and Fuseholder

EMERGENCY BATTERY OPTIONS

- Emergency Battery are for Center Light Only
- Meets California Energy Commission Title 20 [CEC-400-2014-009-CMF] (Cold Weather is NON-CEC)
- Cold Weather Emergency Batteries Temp Range: -20°C thru 50°C
- Max Whip Length for REM is 8ft
- Integral Emergency Battery Options **Requires Conduit Adapter (CA Option)**

EM4W Integral 4 Watt LED

EM8W Integral 8 Watt LED

EM10W Integral 10 Watt LED

EM16W Integral 16 Watt LED

EM10W- Integral 10 Watt LED - Cold Weather
 CW

REM4W Remote 4 Watt LED

REM8W Remote 8 Watt LED

REM10W Remote 10 Watt LED

REM16W Remote 16 Watt LED

REM10W- Remote 10 Watt LED - Cold Weather
 CW

ACCESSORY OPTIONS (Order as a Separate Line)

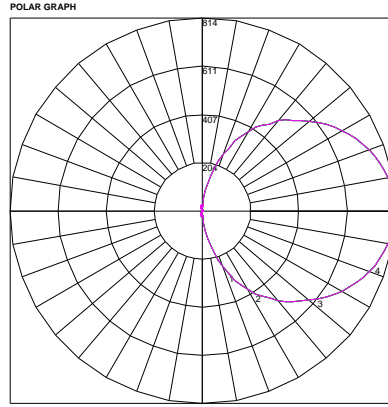
REMT Remote Controller for Sensor Options

TPD Tamperproof Screwdriver

Photometric Data

Summary of Results GO-ALB-38-LED30-CT4-80CRI-UNV-CTB					
Lumen Output	Efficacy	Input Power	CCT	Distribution	BUG Rating
3246.4 Lumens	104.1 Lm/W	31.2W	4000K	Type IV	B0-U5-G3

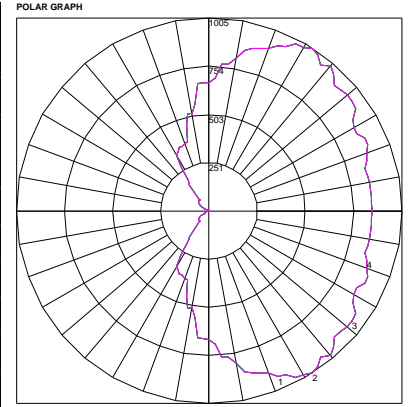
LCS Summary	
Zone	Lumens
Forward Low (0-30)	74.7
Forward Medium (30-60)	468.0
Forward High (60-80)	567.0
Forward Very High (80-90)	324.4
Back Low (0-30)	16.3
Back Medium (30-60)	63.3
Back High (60-80)	69.7
Back Very High (80-90)	39.8
Up Low (90-100)	364.1
Up High (100-180)	1259.1



Maximum Candela = 814.2 Located At Horizontal Angle = 0, Vertical Angle = 90
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Vertical Plane Through Horizontal Angles (0 - 180)
 # 3 - Vertical Plane Through Horizontal Angles (0 - 180)
 # 4 - Vertical Plane Through Horizontal Angles (0 - 180)

Summary of Results GO-ALB-38-LED30-UP10/DN10-CT4-80CRI-UNV-CTB					
Lumen Output	Efficacy	Input Power	CCT	Distribution	BUG Rating
5769.2 Lumens	93.2 Lm/W	61.9W	4000K	Type IV	B1-U5-G3

LCS Summary	
Zone	Lumens
Forward Low (0-30)	347.1
Forward Medium (30-60)	901.7
Forward High (60-80)	653.2
Forward Very High (80-90)	340.5
Back Low (0-30)	216.1
Back Medium (30-60)	286.5
Back High (60-80)	97.2
Back Very High (80-90)	42.3
Up Low (90-100)	382.8
Up High (100-180)	2501.8



Maximum Candela = 1005.3 Located At Horizontal Angle = 0, Vertical Angle = 32.5
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Vertical Plane Through Horizontal Angles (0 - 180)
 # 3 - Vertical Plane Through Horizontal Angles (0 - 180)
 # 4 - Vertical Plane Through Horizontal Angles (0 - 180)