

DuraLED Round Flat Top Bollards



| | |
|----------------------------|---------------------|
| Project Information | |
| Project Name: _____ | Fixture Type: _____ |
| Complete Catalog #: _____ | Date: _____ |
| Comments: _____ | |

The DuraLED Bollards with choice of optics are designed to replace HID lighting systems up to 70w MH or HPS. These fixtures are ideal for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities.

SPECIFICATIONS AND FEATURES:

HOUSING:

Extruded Aluminum Housing with Flush Mounting Base & Vandal-Resistant Screws, Flat Top, Internal Ballast Tray for Easy Maintenance. Bollards Can Be Cut to Custom Lengths Upon Request.

LISTING & RATINGS:

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750; IP65 Sealed LED Compartment.

FINISH:

Textured Architectural Bronze or Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

STYLE:

Clear Prismatic Borosilicate Glass Refractor, Specially Designed Cone Reflector or Internal Louvers

LENS:

Clear UV-Stabilized Polycarbonate Vandal-Resistant Lens or SoftLED LumaLens UV-Stabilized Polycarbonate Opal Vandal-Resistant Lens

MOUNTING OPTIONS:

Mounting Kit with 8" Zinc-Plated Anchor Bolts, Included.

DURALED LED:

Aluminum Boards

WATTAGE:

Array: 10w, System: 11.3w
 Array: 14.5w, System: 15.9w
 Array: 22w, System: 23.8w

DRIVER:

Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz (15w Only); Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 2kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

CONTROLS:

Fixtures Ordered with Factory-Installed Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with DuraGuard Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

WARRANTY:

5-Year Warranty for -40°C to +40°C Environment.

See Page 4 for Projected Lumen Maintenance Table.



NEW Soft Shine Low Glare White Cone Reflector
 Daytime View Nighttime View
 (Dome Top Shown for Visual Concept)

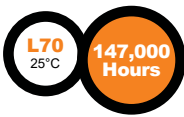


Glass FTRBQ Louvers FTRBAALQ SoftLED LumaLens Opal Array Lens



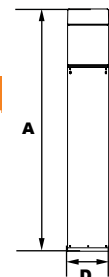
LED Cone Reflector, Shown with Glare Shield DTRBPBCLQ Shown with GFCI Shown with "S3" Sensor

DuraLED TECHNOLOGY



Dimensions

Diameter (D) | 7" (178mm)
Height (A) | 41 1/4" (1,057mm)



Specifications subject to change without notice.

DuraLED Round Flat Top Bollards



Complete Units Ordering Information
 Example: **FTRBPCLQF1X22U5KZ36SF**

| Model | Optics | Wattage | Driver | CCT | Lens | Color | Height | Options | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------|----------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|
| | 1X10 =10w 1X15 =15w 1X22 =22w C =Type III* F =Wide Beam Spread * FTRBPBCWQ , FTRBPBCLQ & FTRBQ Only | | U =120-277V C =347V* *15w Model Only | 3K =3000K 4K =4000K 5K =5000K | | | Z =Bronze B =Black C =Custom (Consult Factory) | (Leave Blank) = 42" Standard Height 36 =36" Height 30 =30" Height | |
| FTRBPBCWQ =Round Flat Top Bollard with Soft Shine Low Glare White Cone Reflector FTRBPBCLQ =Round Flat Top Bollard with LED Cone Reflector FTRBQ =Round Flat Top Bollard with Glass FTRBAALQ =Round Flat Top Bollard with Louvers | | | | | | (Leave Blank) =Clear Lens L =SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens* *Type V White Cone Reflector Only | | | |

SF=Single Fuse*
DF=Double Fuse*
SP=Surge Protection
GF1=GFCI Outlet, 15A, 120V
GSB=180° Glare Shield, Black
GSZ=180° Glare Shield, Bronze
GSC=180° Glare Shield, Custom Color (Consult Factory)
S3=Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17121 Spec. Page for Details.
BU=Battery Backup, 90 Minutes*
BUC=Cold Start Battery Backup, -20°C, 90 Minutes*

*120-277V Models Only.

ACCESSORIES & REPLACEMENT PARTS:

| Mounting Accessories (Order Separately, Field Installed) | |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MK4 | Mounting Kit, Includes Bracket & Three (3) 4" Zinc-Plated Anchor Bolts |
| MK8 | Mounting Kit, Includes Bracket & Three (3) 8" Zinc-Plated Anchor Bolts |
| MK12 | Mounting Kit, Includes Bracket & Three (3) 12" Zinc-Plated Anchor Bolts |
| MK15 | Mounting Kit, Includes Bracket & Three (3) 15" Zinc-Plated Anchor Bolts |
| BREBASE* | Bollard Retrofit Base Kit Adapts New Bollards to Most Existing Bolt Patterns. Fits all DuraGuard Bollards. Die Cast with Powdercoat Finish, Hardware Included. 11½" Dia. x 1½" H |
| *Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory) | |



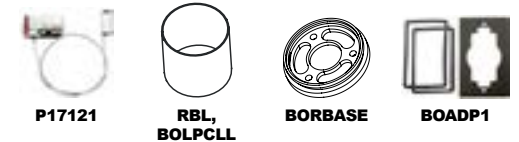
*Shown Mounted

| Accessories (Order Separately, Field Installed) | |
|----------------------------------------------------|------------------------------------|
| P17122 | Remote Programming Tool for P17121 |



P17122

| Replacement Parts (Order Separately, Field Installed) | |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| P17121 | Internal Microwave Sensor with Dimming & Remote Programming, 120-277V Only. See P17121 Spec. Page for Details. |
| RPL | Replacement Round UV-Stabilized Polycarbonate Vandal-Resistant Lens |
| BOLPCLL | Replacement SoftLED LumaLens Opal UV-Stabilized Polycarbonate Array Lens |
| BORBASE* | Die Cast Base Plate with Powdercoat Finish Over a Chromate Conversion Coating. |
| BOADP1 | Adapter Plate with Gaskets for Outlet Boxes. Fits DuraGuard Round Bollards. Die Cast with Bronze Powdercoat Finish. |
| *Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory) | |
| For Replacement Battery Backup, see the DuraGuard LED Battery Backup Specification Sheet. | |



P17121

RBL,
BOLPCLL

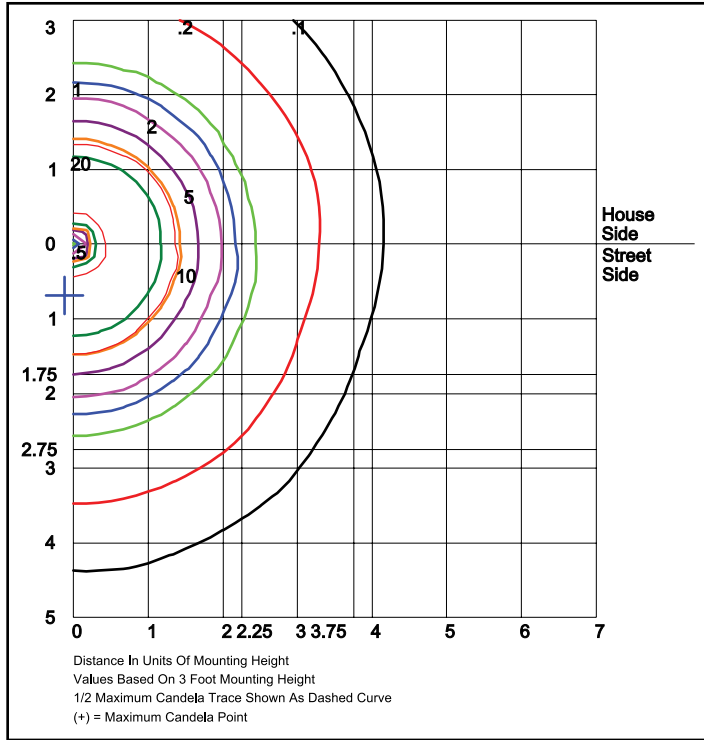
BORBASE

BOADP1

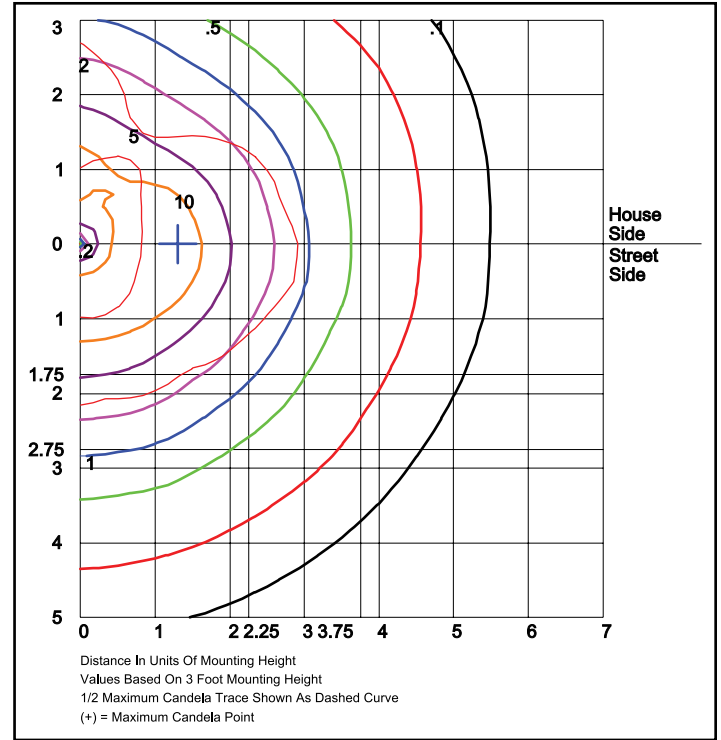
DuraLED Round Flat Top Bollards



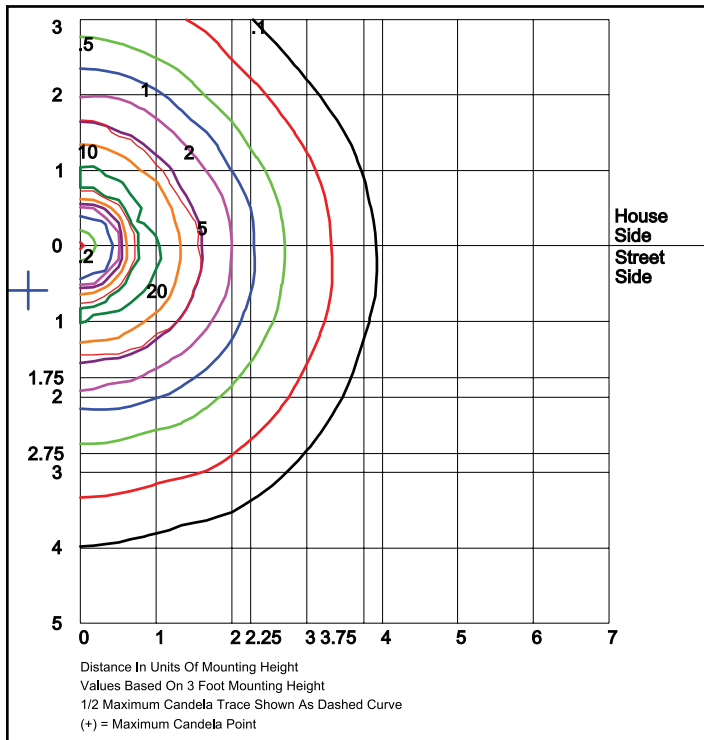
PHOTOMETRIC DATA



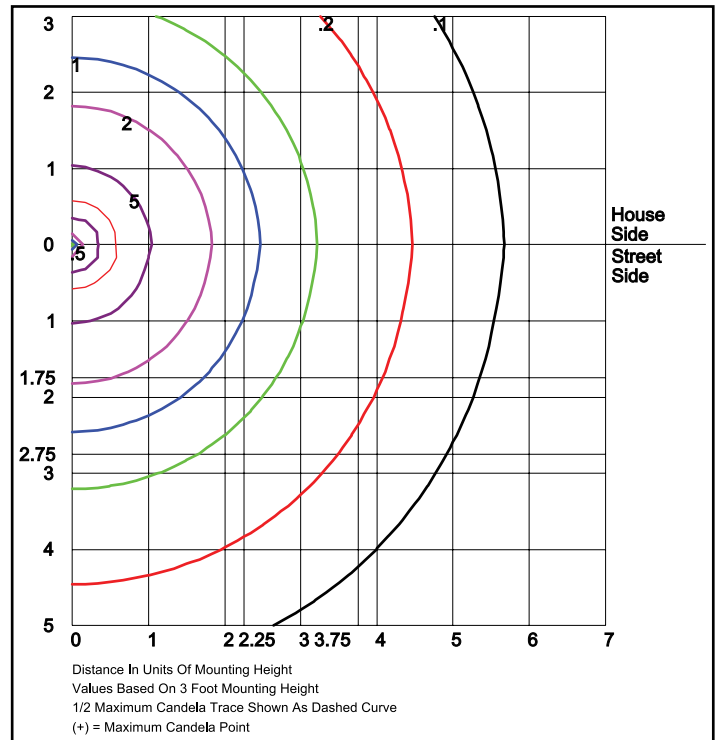
FTRBPBCWQF1X22U5K & FTRBPBCLQF1X22U5K
Type V
 Grid in feet, Mounting Height = 3 ft.



FTRBQC1X22U5K
Type III
 Grid in feet, Mounting Height = 3 ft.



FTRBAALQF1X22U5K
Type V
 Grid in feet, Mounting Height = 3 ft.



FTRBPBCWQF1X22U5KL, LumaLens
Type V
 Grid in feet, Mounting Height = 3 ft.

DuraLED Round Flat Top Bollards

DuraGuard
PRODUCTS INC.
A QSSI Company



PHOTOMETRIC PERFORMANCE

| Optic | Wattage (Catalog Logic) | 10W (1X22) | 15W (1X15) | 20W (1X22) |
|--------------------------------------------------------------------------|----------------------------|------------------|---------------|---------------|
| | Input Watts | 11.3W | 15.9W | 23.8W |
| | CCT | Delivered Lumens | | |
| FTRBPBCWQ & FTRBPBCLQ Cone Reflector C=Type III Optic | 3000K | 738 | 1,033 | 1,549 |
| | 4000K | 800 | 1,120 | 1,680 |
| | 5000K | 834 | 1,167 | 1,750 |
| | BUG Rating | B0-U2-G1 | B1-U3-G1 | B1-U3-G1 |
| FTRBPBCWQ & FTRBPBCLQ Cone Reflector F=Type V Optic | 3000K | 1,037 | 1,452 | 2,178 |
| | 4000K | 1,125 | 1,575 | 2,362 |
| | 5000K | 1,172 | 1,641 | 2,461 |
| | BUG Rating | B1-U3-G1 | B1-U3-G1 | B1-U3-G1 |
| FTRBQ Glass C=Type III Optic | 3000K | 787 | 1,101 | 1,652 |
| | 4000K | 853 | 1,195 | 1,792 |
| | 5000K | 889 | 1,245 | 1,867 |
| | BUG Rating | B1-U3-G1 | B1-U3-G1 | B1-U3-G1 |
| FTRBQ Glass F=Type V Optic | 3000K | 768 | 1,076 | 1,613 |
| | 4000K | 833 | 1,167 | 1,750 |
| | 5000K | 868 | 1,215 | 1,823 |
| | BUG Rating | B1-U3-G1 | B1-U3-G1 | B1-U3-G1 |
| FTRBAALQ Louvers F=Type V Optic Only | 3000K | 531 | 744 | 1,116 |
| | 4000K | 576 | 807 | 1,211 |
| | 5000K | 600 | 841 | 1,261 |
| | BUG Rating | B0-U2-G0 | B1-U2-G1 | B1-U3-G1 |

PROJECTED LUMEN MAINTENANCE

| Data shown for 5000 CCT | | Compare to MH | | | | |
|---------------------------------------------|--------------------------------------|---------------|------------|------------|-------------|---------------------|
| TM-21-11 | Input Watts | Initial | 25,000 Hrs | 50,000 Hrs | 100,000 Hrs | Calculated LED Life |
| L70 Lumen Maintenance @ 25°C / 77°F | All wattages up to and including 24w | 1.00 | 0.95 | 0.90 | 0.80 | 147,000 |
| L70 Lumen Maintenance @ 50°C / 122°F | | 1.00 | 0.89 | 0.78 | 0.55 | 67,000 |
| L80 Lumen Maintenance @ 40°C / 104°F | | 1.00 | 0.92 | 0.85 | 0.70 | 66,000 |

NOTES:

- Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 116mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
- Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.