

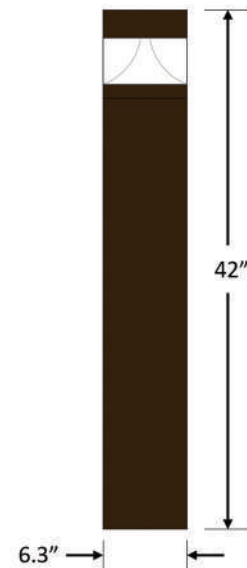


FEATURES

- Field selectable 3000k (warm white), 4000k (neutral white), and 5000k (cool white) color temperatures.*
- Long-life LEDs provide at least 70% of initial lumen output (L70) for $\geq 163,000$ hours of operation, and at least 90% of initial lumen output (L90) for $\geq 50,000$ hours of operation.**
- LED chromaticity based on ≤ 5 -step ANSI quadrangles.
- LED color maintenance ≤ 0.003 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Provides a range of 1,702 to 3,296 nominal lumens and 125 to 148 nominal lumens per watt (lm/W).
- 0-10vdc dimming drivers, are standard.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90 .
- Total harmonic distortion $< 20\%$.
- Color rendering index (Ra) > 80 .
- Cast aluminum housing with dark bronze, powder coat finish.
- High-impact, polycarbonate lens.
- Easy installation in new construction or retrofit applications.

WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -40°C to 55°C (-40°F to 131°F).
- IP65 rated for ingress protection.
- DLC premium approved.
- Complies with FCC Part 15, class A.
- Surge protection = 4kV.
- 5-year warranty of all electronics and housing.



BOL-R = 15 lbs.
BOL-S = 12 lbs.

NOTE: Dimensions for BOL-S and BOL-R are the same. BOL-S is shown.

ORDERING INFORMATION

Example: AL-BLR-3L-LKFS

| Series | Style | | Nominal Lumen Output | | Select | Required Mounting Means Order Separately | |
|--------|-------|--------|----------------------|----------|--------|---|--------------------------------|
| | R | S | 3L | 3,000 lm | | AL-BLR-MTGKIT | AL-BLS-MTGKIT |
| | R | Round | 3L | 3,000 lm | LKFS | AL-BLR-MTGKIT | Anchor bolt for round bollard |
| | S | Square | | | | AL-BLS-MTGKIT | Anchor bolt for square bollard |

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ELECTRICAL DATA

| Series | Measurements | Low Lumens | | | Mid Lumens | | | High Lumens | | |
|----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 3000K | 4000K | 5000K | 3000K | 4000K | 5000K | 3000K | 4000K | 5000K |
| AL-BLR-3L-LKFS | Lumens | 1827 | 1974 | 1942 | 2507 | 2686 | 2665 | 3090 | 3244 | 3296 |
| | Watts | 13 | 14 | 13 | 18 | 19 | 18 | 23 | 22 | 23 |
| | Efficacy | 139 | 144 | 148 | 138 | 145 | 146 | 134 | 145 | 144 |
| | Input Current (A) | 120V = 0.11A | 120V = 0.12A | 120V = 0.11A | 120V = 0.15A | 120V = 0.16A | 120V = 0.15A | 120V = 0.19A | 120V = 0.18A | 120V = 0.19A |
| 240V = 0.05A | | 240V = 0.06A | 240V = 0.05A | 240V = 0.08A | 240V = 0.08A | 240V = 0.08A | 240V = 0.10A | 240V = 0.09A | 240V = 0.10A | |
| 277V = 0.05A | | 277V = 0.05A | 277V = 0.05A | 277V = 0.06A | 277V = 0.07A | 277V = 0.06A | 277V = 0.08A | 277V = 0.08A | 277V = 0.08A | |

| Series | Measurements | Low Lumens | | | Mid Lumens | | | High Lumens | | |
|----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 3000K | 4000K | 5000K | 3000K | 4000K | 5000K | 3000K | 4000K | 5000K |
| AL-BLS-3L-LKFS | Lumens | 1702 | 1790 | 1805 | 2303 | 2450 | 2459 | 2887 | 3047 | 3041 |
| | Watts | 13 | 14 | 13 | 18 | 18 | 19 | 23 | 23 | 23 |
| | Efficacy | 128 | 132 | 135 | 125 | 134 | 133 | 125 | 135 | 131 |
| | Input Current (A) | 120V = 0.11A | 120V = 0.12A | 120V = 0.11A | 120V = 0.15A | 120V = 0.15A | 120V = 0.16A | 120V = 0.19A | 120V = 0.19A | 120V = 0.19A |
| 240V = 0.05A | | 240V = 0.06A | 240V = 0.05A | 240V = 0.08A | 240V = 0.08A | 240V = 0.08A | 240V = 0.10A | 240V = 0.10A | 240V = 0.10A | |
| 277V = 0.05A | | 277V = 0.05A | 277V = 0.05A | 277V = 0.06A | 277V = 0.06A | 277V = 0.07A | 277V = 0.08A | 277V = 0.08A | 277V = 0.08A | |

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PHOTOMETRIC DATA

AL-BLR-3L-LKFS

Luminaire Data

| | |
|-----------------------------|---------------------------------|
| Description | BOLLARD (ROUND) 3L 5K - LKFS |
| Total Lumens | 3,296 |
| Input Wattage | 23 |
| Efficacy (lm/W) | 144 |
| Max. Cd. | 815.81 (67.5H, 53V) |
| IES Classification | Type VS |
| Longitudinal Classification | Short |

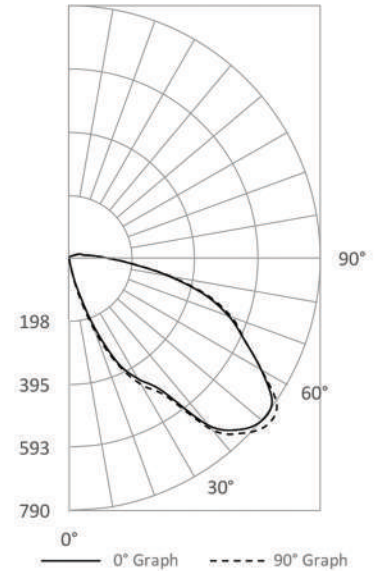
Zonal Lumen Summary

| Zone | Lumens | %Fixt |
|----------|--------|--------|
| 0-30° | 201 | 6.1% |
| 0-60° | 1,823 | 55.3% |
| 0-80° | 2,890 | 87.7% |
| 80-90° | 225 | 6.8% |
| 0-90° | 3,115 | 94.5% |
| 90-110° | 134 | 4.1% |
| 110-180° | 0 | 0.0% |
| 0-180° | 3,296 | 100.0% |

Luminaire Classification Systems (LCS)

| LCS Zone | | Lumens | %Lum |
|--------------|---------|--------------|---------------|
| FL | 0-30 | 99 | 3.0% |
| FM | 30-60 | 813 | 24.7% |
| FH | 60-80 | 540 | 16.4% |
| FVH | 80-90 | 116 | 3.5% |
| BL | 0-30 | 101 | 3.1% |
| BM | 30-60 | 809 | 24.5% |
| BH | 60-80 | 527 | 16.0% |
| BVH | 80-90 | 109 | 3.3% |
| UL | 90-100 | 89 | 2.7% |
| UH | 100-180 | 93 | 2.8% |
| Total | | 3,296 | 100.0% |
| BUG Rating | | B2-U3-G2 | |

180° Polar Graph



AL-BLS-3L-LKFS

Luminaire Data

| | |
|-----------------------------|----------------------------------|
| Description | BOLLARD (SQUARE) 3L 5K - LKFS |
| Total Lumens | 3,041 |
| Input Wattage | 23 |
| Efficacy (lm/W) | 132 |
| Max. Cd. | 843.54 (270H, 53V) |
| IES Classification | Type VS |
| Longitudinal Classification | Short |

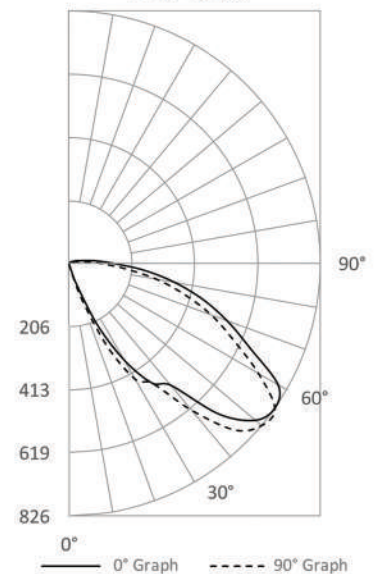
Zonal Lumen Summary

| Zone | Lumens | %Fixt |
|----------|--------|--------|
| 0-30° | 114 | 3.8% |
| 0-60° | 1,611 | 53.0% |
| 0-80° | 2,646 | 87.0% |
| 80-90° | 230 | 7.6% |
| 0-90° | 2,876 | 94.6% |
| 90-110° | 126 | 4.1% |
| 110-180° | 0 | 0.0% |
| 0-180° | 3,041 | 100.0% |

Luminaire Classification Systems (LCS)

| LCS Zone | | Lumens | %Lum |
|--------------|---------|--------------|--------------|
| FL | 0-30 | 47 | 1.6% |
| FM | 30-60 | 738 | 24.3% |
| FH | 60-80 | 552 | 18.2% |
| FVH | 80-90 | 132 | 4.3% |
| BL | 0-30 | 67 | 2.2% |
| BM | 30-60 | 760 | 25.0% |
| BH | 60-80 | 482 | 15.9% |
| BVH | 80-90 | 98 | 3.2% |
| UL | 90-100 | 89 | 2.9% |
| UH | 100-180 | 76 | 2.5% |
| Total | | 3,041 | 99.9% |
| BUG Rating | | B1-U3-G2 | |

180° Polar Graph



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