BNSK2
ARCHITECTURAL AREA/SITE

FEATURES

• Available in 580nm, 3000K, 4000K and 5000K standard CCT
• High performance optics up to 9,264 delivered lumens
• Type 1, 2, 3, 4W, 5QM distributions
• 0-10V dimming drivers standard
• Sealed optical chamber, IP66 certified

CONTROL TECHNOLOGY

SPECIFICATIONS

CONSTRUCTION

• One piece non die-cast housing, low copper (<0.6% Cu) Aluminum Alloy with integral cooling ribs over the optical chamber and electrical compartment
• All hardware is stainless steel or electro-zinc plated steel
• Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
• One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1” minimum depth around the gasket flange
• Clear 1/8” thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter

OPTICS

• Optical cartridge system consisting of a die cast heat sink, LED engine, TIR optics, gasket and bezel plate

• Molded silicone gasket ensures a weather-proof seal around each individual LED
• Features revolutionary individual LED optical control based on high performance TIR optical designs
• Optional BackLight Control for complete control of unwanted backlight.
• IP66 Optical assembly
• Type 1, 2, 3, 4W, and 5QM standard distributions Custom available
• 3000K, 4000K, 5000K standard CCT. Amber and custom available
• Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level
• Anodized aluminum heat sink modules

INSTALLATION

• Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL

• Dimming range from 10% to 100% through the use of standard 0-10V interface on the programmable driver
• Modular wiring harness in the service area provides user access to the dimming circuitry
• Optional factory programmed dimming profile
• Surge protection: 10kV surge suppression
• SF for 120, 277, 347 Line volts DF for 208, 240, 480 Line volts
• Wiring: 14GA wires rated 150°C

CERTIFICATIONS AND LISTINGS

• Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
• RoHS compliant
• IDA approved, 3000K and warmer CCTs only

WARRANTY

• 5 year warranty

ORDERING GUIDE

| Kit   | Engine | CCT   | Distribution | Voltage | Finish          |
|-------|--------|-------|--------------|---------|-----------------|
| BNSK2 2.0 | 36L-400 | AMB | Amber 595nm Peak | UNV | 120-277V |
|       | 36L-615 | 3K7 | 3000K, 70 CRI | 347 | 347V  |
|       | 36L-800 | 4K7 | 4000K, 70 CRI | 480 | 480V  |
|       |        | 5K7 | 5000K, 70 CRI |       |      |
|       |        |     | Type I       |        | BLS  Black Gloss Smooth |
|       |        |     | Type II      |        | BLT  Black Matte Textured |
|       |        |     | Type III     |        | DBS  Dark Bronze Gloss Smooth |
|       |        |     | Type IV      |        | DBT  Dark Bronze Matte Textured |
|       |        |     | Type IV Wide |        | GTS  Graphite Matte Textured |
|       |        |     | Type V Square|        | LGS  Light Grey Gloss Smooth |
|       |        |     |              |        | LGR  Light Grey Matte Textured |
|       |        |     |              |        | PSS  Platinum Silver Gloss Smooth |
|       |        |     |              |        | VGF  Verde Green Matte Textured |
|       |        |     |              |        | WHS  White Gloss Smooth |
|       |        |     |              |        | WHT  White Matte Textured |
|       |        |     | Color Option |        | CC   Custom Color |

3000K and warmer CCTs only
### DELIVERED LUMENS

**STANDARD CLEAR GLASS LENS**

| LEDs # | Lumens Package | Drive Current (mA) | Nominal Watts |
|--------|----------------|-------------------|--------------|
| 4,000  | 400            | 48                |              |
| 36L    | 6,000          | 615               | 71           |
| 7,500  | 800            | 91                |              |

| Distribution | 3000K 70CRI | 4000K 70CRI | 5000K 70CRI |
|--------------|-------------|-------------|-------------|
|              | Lumen       | BUG Rating  | Im/w        | Lumen       | BUG Rating  | Im/w        | Lumen       | BUG Rating  | Im/w        |
|              | B U G       | B U G       |             | B U G       | B U G       |             | B U G       | B U G       |             |
| 1            | 4837        | 1 0 0       | 101.5       | 4935        | 1 0 0       | 103.5       | 4945        | 1 0 0       | 103.7       |
| 1-HS         | 2383        | 0 0 0       | 50.0        | 2431        | 0 0 0       | 51.0        | 2436        | 0 0 0       | 51.1        |
| 2            | 4619        | 1 0 1       | 96.9        | 4712        | 1 0 1       | 98.8        | 4722        | 1 0 1       | 99.0        |
| 2-HS         | 1923        | 0 0 0       | 40.3        | 1962        | 0 0 0       | 41.2        | 1966        | 0 0 0       | 41.2        |
| 3            | 4240        | 1 0 1       | 88.9        | 4325        | 1 0 1       | 90.7        | 4334        | 1 0 1       | 90.9        |
| 3-HS         | 1889        | 0 0 0       | 39.6        | 1927        | 0 0 0       | 40.4        | 1931        | 0 0 0       | 40.5        |
| 4            | 4352        | 1 0 1       | 91.3        | 4440        | 1 0 1       | 93.1        | 4449        | 1 0 1       | 93.3        |
| 5            | 1780        | 0 0 0       | 37.3        | 1816        | 0 0 0       | 38.1        | 1820        | 0 0 0       | 38.2        |
| 5Q           | 4844        | 2 0 0       | 101.6       | 4941        | 2 0 0       | 103.7       | 4951        | 2 0 0       | 103.9       |

|              | 1            | 6673        | 1 0 1       | 94.5        | 6808        | 1 0 1       | 96.4        | 6822        | 1 0 1       | 96.6        |
|              | 1-HS         | 3288        | 0 0 0       | 46.5        | 3354        | 0 0 0       | 47.5        | 3361        | 0 0 0       | 47.6        |
|              | 2            | 6372        | 1 0 1       | 90.2        | 6500        | 1 0 1       | 92.0        | 6514        | 1 0 1       | 92.2        |
|              | 2-HS         | 2653        | 0 0 0       | 37.6        | 2707        | 0 0 0       | 38.3        | 2712        | 0 0 0       | 38.4        |
|              | 3            | 5849        | 1 0 1       | 82.8        | 5967        | 1 0 1       | 84.5        | 5979        | 1 0 1       | 84.6        |
|              | 3-HS         | 2606        | 0 0 0       | 36.9        | 2659        | 0 0 0       | 37.6        | 2664        | 0 0 0       | 37.7        |
|              | 4            | 6004        | 1 0 2       | 85.0        | 6125        | 1 0 2       | 86.7        | 6137        | 1 0 2       | 86.9        |
|              | 4W           | 2456        | 0 0 0       | 34.8        | 2505        | 0 0 0       | 35.5        | 2511        | 0 0 0       | 35.5        |
|              | 5Q           | 6682        | 3 0 0       | 94.6        | 6817        | 3 0 0       | 96.5        | 6831        | 3 0 0       | 96.7        |

|              | 1            | 8174        | 1 0 1       | 89.6        | 8338        | 1 0 1       | 91.4        | 8355        | 1 0 1       | 91.2        |
|              | 1-HS         | 4027        | 0 0 0       | 44.1        | 4108        | 0 0 0       | 45.0        | 4116        | 0 0 0       | 45.1        |
|              | 2            | 7805        | 1 0 1       | 85.5        | 7962        | 2 0 1       | 87.3        | 7978        | 2 0 1       | 87.0        |
|              | 2-HS         | 3250        | 0 0 0       | 33.6        | 3315        | 0 0 0       | 36.3        | 3322        | 0 0 0       | 36.5        |
|              | 3            | 7164        | 1 0 2       | 78.6        | 7308        | 1 0 2       | 80.5        | 7323        | 1 0 2       | 80.3        |
|              | 3-HS         | 3192        | 0 0 0       | 35.0        | 3256        | 0 0 0       | 35.7        | 3263        | 0 0 0       | 35.9        |
|              | 4            | 7354        | 1 0 2       | 80.6        | 7502        | 1 0 2       | 82.2        | 7517        | 1 0 2       | 82.1        |
|              | 4W-HS        | 3008        | 0 0 1       | 33.0        | 3069        | 0 0 1       | 33.6        | 3075        | 0 0 1       | 33.8        |
|              | 5Q           | 8184        | 3 0 1       | 89.7        | 8349        | 3 0 1       | 91.5        | 8366        | 3 0 1       | 91.2        |
### BNSK2
ARCHITECTURAL AREA/SITE

#### DELIVERED LUMENS (CONTINUED)

**CP (CLEAR POLYCARBONATE)**

| LEDs # | Lumens Package | Drive Current (mA) | Nominal Watts | Distribution | 3000K 70CRI | 4000K 70CRI | 5000K 70CRI |
|--------|----------------|-------------------|--------------|--------------|--------------|--------------|--------------|
|        |                |                   |              |              | BUG Rating   | Lumen | BUG Rating | Lumen | BUG Rating | Lumen | Im/w | Im/w | Im/w |
|        |                |                   |              |              | Lumen       | Im/w | Lumen       | Im/w | Lumen       | Im/w | Lumen | Im/w | Lumen |
| 4,000  | 400           | 48                |              |              | 1            | 5153 | 1 3 0 1018 | 5256 | 1 3 0 1103 | 5267 | 1 3 0 1105 |
|        |                |                   |              |              | 1-HS         | 2527 | 0 2 0 53.0 | 2578 | 0 2 0 54.1 | 2583 | 0 2 0 54.2 |
|        |                |                   |              |              | 2            | 4998 | 1 3 1 102.7 | 4997 | 1 3 1 104.8 | 5007 | 1 3 1 105.0 |
|        |                |                   |              |              | 2-HS         | 2039 | 0 2 0 42.8 | 2080 | 0 2 0 43.6 | 2084 | 0 2 0 43.7 |
|        |                |                   |              |              | 3            | 4498 | 1 3 1 94.4 | 4589 | 1 3 1 96.3 | 4598 | 1 3 1 96.5 |
|        |                |                   |              |              | 3-HS         | 2005 | 0 2 0 42.1 | 2045 | 0 2 0 42.9 | 2049 | 0 2 0 43.0 |
|        |                |                   |              |              | 4W           | 4597 | 1 3 1 96.4 | 4689 | 1 3 1 98.4 | 4699 | 1 3 1 98.6 |
|        |                |                   |              |              | 4W-HS        | 1879 | 0 2 0 39.4 | 1916 | 0 2 0 40.2 | 1920 | 0 2 0 40.3 |
|        |                |                   |              |              | 5Q           | 5111 | 2 3 0 107.2 | 5213 | 2 3 0 109.4 | 5224 | 2 3 0 109.6 |
| 36L    | 6,000         | 615               | 71           |              | 1            | 7109 | 1 3 1 100.6 | 7252 | 1 3 1 102.6 | 7266 | 1 3 1 102.9 |
|        |                |                   |              |              | 1-HS         | 3487 | 0 3 0 49.4 | 3557 | 0 3 0 50.3 | 3564 | 0 3 0 50.4 |
|        |                |                   |              |              | 2            | 6757 | 1 3 1 95.6 | 6893 | 1 3 1 97.6 | 6907 | 1 3 1 97.8 |
|        |                |                   |              |              | 2-HS         | 2813 | 0 2 0 39.8 | 2869 | 0 2 0 40.6 | 2875 | 0 2 0 40.7 |
|        |                |                   |              |              | 3            | 6205 | 1 3 1 87.8 | 6330 | 1 3 1 89.6 | 6343 | 1 3 2 89.8 |
|        |                |                   |              |              | 3-HS         | 2766 | 0 2 0 39.1 | 2821 | 0 2 0 39.9 | 2827 | 0 2 0 40.0 |
|        |                |                   |              |              | 4W           | 6342 | 1 3 2 89.8 | 6469 | 1 3 2 91.6 | 6482 | 1 3 2 91.8 |
|        |                |                   |              |              | 4W-HS        | 2592 | 0 2 0 36.7 | 2644 | 0 2 0 37.4 | 2649 | 0 2 0 37.5 |
|        |                |                   |              |              | 5Q           | 7050 | 3 3 1 99.8 | 7192 | 3 3 1 101.8 | 7207 | 3 3 1 102.0 |
| 7,500  | 800           | 91                |              |              | 1            | 8707 | 1 3 1 95.4 | 8882 | 1 3 1 97.3 | 8900 | 1 3 1 97.5 |
|        |                |                   |              |              | 1-HS         | 4270 | 0 3 0 46.8 | 4356 | 0 3 0 47.7 | 4365 | 0 3 0 47.8 |
|        |                |                   |              |              | 2            | 8276 | 2 3 1 90.7 | 8442 | 2 3 1 92.5 | 8460 | 2 3 1 92.7 |
|        |                |                   |              |              | 2-HS         | 3445 | 0 3 0 37.8 | 3514 | 0 3 0 38.5 | 3521 | 0 3 0 38.6 |
|        |                |                   |              |              | 3            | 7600 | 1 3 1 83.3 | 7753 | 1 3 2 85.0 | 7769 | 1 3 2 85.0 |
|        |                |                   |              |              | 3-HS         | 3387 | 0 2 0 37.1 | 3455 | 0 2 0 37.9 | 3462 | 0 2 0 37.9 |
|        |                |                   |              |              | 4W           | 7767 | 1 3 2 85.1 | 7923 | 1 3 2 86.8 | 7940 | 1 3 2 87.0 |
|        |                |                   |              |              | 4W-HS        | 3174 | 0 2 1 34.8 | 3238 | 0 2 1 35.5 | 3245 | 0 2 1 35.6 |
|        |                |                   |              |              | 5Q           | 8635 | 3 3 1 94.6 | 8809 | 3 3 1 96.5 | 8827 | 3 3 1 96.7 |
**BNSK2**

ARCHITECTURAL AREA/SITE

DELIVERED LUMENS (CONTINUED)

SAG LENS (CGL)

| LEDs # | Lumens Package | Drive Current (mA) | Nominal Watts | Distribution | 3000K 70CRI | 4000K 70CRI | 5000K 70CRI |
|--------|----------------|-------------------|---------------|-------------|-------------|-------------|-------------|
|        |                |                   |               |             | BUG Rating  | BUG Rating  | BUG Rating  |
|        |                |                   |               |             | B U G Im/w  | B U G Im/w  | B U G Im/w  |
|        |                |                   |               |             |             |             |             |
| 4,000  | 400            | 48                |               |             | 5364 1 3 1 112.5 5472 1 3 1 114.8 5483 1 3 1 115.0 | 2631 0 2 0 55.2 2684 0 2 0 56.3 2689 0 2 0 56.4 | 5099 1 3 1 1070 5201 1 3 1 1091 5212 1 3 1 109.3 |
|        |                |                   |               |             | 2122 0 2 0 44.5 2165 0 2 0 45.4 2169 0 2 0 45.5 | 4682 1 3 1 98.2 4776 1 3 1 100.2 4786 1 3 1 100.4 | 2087 0 2 0 43.8 2129 0 2 0 44.7 2133 0 2 0 44.7 |
|        |                |                   |               |             | 4785 1 3 1 100.4 4881 1 3 1 102.4 4891 1 3 1 102.6 | 1956 0 2 0 41.0 1995 0 2 0 41.8 1999 0 2 0 41.9 | 36L 6,000 615 71 | 7034 1 3 1 99.6 7175 1 3 1 101.6 7190 1 3 1 101.8 |
|        |                |                   |               |             | 2928 0 2 0 41.4 2987 0 2 0 42.3 2993 0 2 0 42.4 | 6459 1 3 1 91.4 6589 1 3 1 93.3 6603 1 3 1 93.5 | 2879 0 2 0 40.7 2937 0 2 0 41.6 2943 0 2 0 41.7 |
|        |                |                   |               |             | 6601 1 3 2 93.4 6734 1 3 2 95.3 6748 1 3 2 95.5 | 2698 0 2 0 38.2 2752 0 2 0 39.0 2758 0 2 0 39.0 | 36L 6,000 615 71 | 7339 3 3 1 103.9 7487 3 3 1 106.0 7502 1 0 2 106.2 |
|        |                |                   |               |             | 2928 0 2 0 41.4 2987 0 2 0 42.3 2993 0 2 0 42.4 | 6459 1 3 1 91.4 6589 1 3 1 93.3 6603 1 3 1 93.5 | 2879 0 2 0 40.7 2937 0 2 0 41.6 2943 0 2 0 41.7 |
|        |                |                   |               |             | 6601 1 3 2 93.4 6734 1 3 2 95.3 6748 1 3 2 95.5 | 2698 0 2 0 38.2 2752 0 2 0 39.0 2758 0 2 0 39.0 | 36L 6,000 615 71 | 7339 3 3 1 103.9 7487 3 3 1 106.0 7502 1 0 2 106.2 |
|        |                |                   |               |             | 7034 1 3 1 99.6 7175 1 3 1 101.6 7190 1 3 1 101.8 | 2928 0 2 0 41.4 2987 0 2 0 42.3 2993 0 2 0 42.4 | 36L 6,000 615 71 | 7034 1 3 1 99.6 7175 1 3 1 101.6 7190 1 3 1 101.8 |
|        |                |                   |               |             | 9063 1 3 1 99.3 9245 1 3 1 101.3 9264 1 3 1 101.5 | 4445 0 3 0 48.7 4534 0 3 0 49.7 4544 0 3 0 49.8 | 7500 800 91 | 8615 2 3 1 94.4 8788 2 3 1 96.3 8806 2 3 1 96.5 |
|        |                |                   |               |             | 3586 0 3 0 39.3 3658 0 3 0 40.1 3666 0 3 0 40.2 | 7911 1 3 2 86.7 8070 1 3 2 88.5 8087 1 3 2 88.5 | 3586 0 3 0 39.3 3658 0 3 0 40.1 3666 0 3 0 40.2 |
|        |                |                   |               |             | 3526 0 2 0 38.6 3597 0 2 0 39.4 3604 0 2 0 39.5 | 8085 1 3 2 88.6 8248 1 3 2 90.4 8265 1 3 2 90.6 | 3586 0 3 0 39.3 3658 0 3 0 40.1 3666 0 3 0 40.2 |
|        |                |                   |               |             | 8989 3 3 1 98.5 9169 3 3 1 100.5 9188 3 3 1 100.7 | 3304 0 2 1 36.2 3371 0 2 1 36.9 3378 0 2 1 37.0 | 3586 0 3 0 39.3 3658 0 3 0 40.1 3666 0 3 0 40.2 |

DIMENSIONS

![Side View](image1)

![Cross Section](image2)
BNSK2
ARCHITECTURAL AREA/SITE
PHOTOMETRY

BNS2-36L-800-4K7-1
LUMINAIRE DATA

| Description | 4000K, 70CRI |
|------------|--------------|
| Delivered Lumens | 8338 |
| Watts | 91.24 |
| Efficacy | 91.4 |
| IES Type | I |
| BUG Rating | B1-U0-G1 |
| Mounting Height | 15 ft |
| Grid Scale | 15 ft |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminare |
|------|--------|------------|
| Downward Street Side | 7162 | 85.9% |
| Downward House Side | 1176 | 14.0% |
| Downward Total | 8338 | 100.0% |
| Upward Street Side | 0 | 0.0% |
| Upward House Side | 0 | 0.0% |
| Upward Total | 0 | 0.0% |
| Total Flux | 8338 | 100% |

ISOFOOT CANDLE PLOT

BNS2-36L-800-4K7-1-BC
LUMINAIRE DATA

| Description | 4000K, 70CRI |
|------------|--------------|
| Delivered Lumens | 4107 |
| Watts | 91.24 |
| Efficacy | 45.0 |
| IES Type | I |
| BUG Rating | B0-U0-G0 |
| Mounting Height | 15 ft |
| Grid Scale | 15 ft |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminare |
|------|--------|------------|
| Downward Street Side | 3875 | 94.3% |
| Downward House Side | 232 | 5.7% |
| Downward Total | 4107 | 100.0% |
| Upward Street Side | 0 | 0.0% |
| Upward House Side | 0 | 0.0% |
| Upward Total | 0 | 0.0% |
| Total Flux | 4107 | 100% |

ISOFOOT CANDLE PLOT

BNS2-36L-800-4K7-2
LUMINAIRE DATA

| Description | 4000K, 70CRI |
|------------|--------------|
| Delivered Lumens | 7962 |
| Watts | 91.24 |
| Efficacy | 87.3 |
| IES Type | II |
| BUG Rating | B2-U0-G1 |
| Mounting Height | 15 ft |
| Grid Scale | 15 ft |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminare |
|------|--------|------------|
| Downward Street Side | 6239 | 78.4% |
| Downward House Side | 1724 | 21.6% |
| Downward Total | 7963 | 100.0% |
| Upward Street Side | 0 | 0.0% |
| Upward House Side | 0 | 0.0% |
| Upward Total | 0 | 0.0% |
| Total Flux | 7963 | 100% |

ISOFOOT CANDLE PLOT
## BNSK2

**ARCHITECTURAL AREA/SITE**

### PHOTOMETRY

**BNS2-36L-800-4K7-2-BC**

| LUMINAIRE DATA |
|----------------|
| Description    | 4000K, 70CRI |
| Delivered Lumens | 3315 |
| Watts           | 91.24 |
| Efficacy        | 36.3 |
| IES Type        | III |
| BUG Rating      | B0-U0-G0 |
| Mounting Height | 15 ft |
| Grid Scale      | 15 ft |

| ZONAL LUMEN SUMMARY |
|----------------------|
| Zone                          | Lumens | % Luminaire |
| Downward Street Side         | 3054   | 92.0%       |
| Downward House Side          | 261    | 7.9%        |
| Downward Total               | 3315   | 99.9%       |
| Upward Street Side           | 0      | 0.0%        |
| Upward House Side            | 0      | 0.0%        |
| Upward Total                 | 0      | 0.0%        |
| Total Flux                   | 3315   | 100%        |

**ISOFOOT CANDLE PLOT**

![ISOFOOT CANDLE PLOT](image1)

**BNS2-36L-800-4K7-3**

| LUMINAIRE DATA |
|----------------|
| Description    | 4000K, 70CRI |
| Delivered Lumens | 7308 |
| Watts           | 91.24 |
| Efficacy        | 80.1 |
| IES Type        | III |
| BUG Rating      | B1-U0-G1 |
| Mounting Height | 15 ft |
| Grid Scale      | 15 ft |

| ZONAL LUMEN SUMMARY |
|----------------------|
| Zone                          | Lumens | % Luminaire |
| Downward Street Side         | 5838   | 79.9%       |
| Downward House Side          | 1470   | 20.1%       |
| Downward Total               | 7308   | 100.0%      |
| Upward Street Side           | 0      | 0.0%        |
| Upward House Side            | 0      | 0.0%        |
| Upward Total                 | 0      | 0.0%        |
| Total Flux                   | 7308   | 100%        |

**ISOFOOT CANDLE PLOT**

![ISOFOOT CANDLE PLOT](image2)

**BNS2-36L-800-4K7-3-BC**

| LUMINAIRE DATA |
|----------------|
| Description    | 4000K, 70CRI |
| Delivered Lumens | 3257 |
| Watts           | 91.24 |
| Efficacy        | 35.7 |
| IES Type        | III |
| BUG Rating      | B3-U0-G2 |
| Mounting Height | 15 ft |
| Grid Scale      | 15 ft |

| ZONAL LUMEN SUMMARY |
|----------------------|
| Zone                          | Lumens | % Luminaire |
| Downward Street Side         | 2974   | 91.3%       |
| Downward House Side          | 283    | 8.7%        |
| Downward Total               | 3257   | 100.0%      |
| Upward Street Side           | 0      | 0.0%        |
| Upward House Side            | 0      | 0.0%        |
| Upward Total                 | 0      | 0.0%        |
| Total Flux                   | 3257   | 100%        |

**ISOFOOT CANDLE PLOT**

![ISOFOOT CANDLE PLOT](image3)
BNSK2
ARCHITECTURAL AREA/SITE

PHOTOMETRY

BNS2-36L-800-4K7-4W

LUMINAIRE DATA

| Description       | 4000K, 70CRI |
|-------------------|-------------|
| Delivered Lumens  | 7502        |
| Watts             | 91.24       |
| Efficacy          | 82.2        |
| IES Type          | IV          |
| BUG Rating        | B1-U0-G2    |
| Mounting Height   | 15 ft       |
| Grid Scale        | 15 ft       |

ZONAL LUMEN SUMMARY

| Zone                        | Lumens | % Luminaire |
|-----------------------------|--------|-------------|
| Downward Street Side        | 6115   | 81.5%       |
| Downward House Side         | 1387   | 18.5%       |
| Downward Total              | 7502   | 100.0%      |
| Upward Street Side          | 0      | 0.0%        |
| Upward House Side           | 0      | 0.0%        |
| Upward Total                | 0      | 0.0%        |
| Total Flux                  | 7502   | 100%        |

BNS2-36L-800-4K7-4-BC

LUMINAIRE DATA

| Description       | 4000K, 70CRI |
|-------------------|-------------|
| Delivered Lumens  | 3069        |
| Watts             | 91.24       |
| Efficacy          | 33.6        |
| IES Type          | IV          |
| BUG Rating        | B0-U0-G1    |
| Mounting Height   | 15 ft       |
| Grid Scale        | 15 ft       |

ZONAL LUMEN SUMMARY

| Zone                        | Lumens | % Luminaire |
|-----------------------------|--------|-------------|
| Downward Street Side        | 2752   | 89.6%       |
| Downward House Side         | 317    | 10.4%       |
| Downward Total              | 3069   | 100.0%      |
| Upward Street Side          | 0      | 0.0%        |
| Upward House Side           | 0      | 0.0%        |
| Upward Total                | 0      | 0.0%        |
| Total Flux                  | 3069   | 100%        |

BNS2-36L-800-4K7-5Q

LUMINAIRE DATA

| Description       | 4000K, 70CRI |
|-------------------|-------------|
| Delivered Lumens  | 8349        |
| Watts             | 91.24       |
| Efficacy          | 91.5        |
| IES Type          | V           |
| BUG Rating        | B3-U0-G1    |
| Mounting Height   | 15 ft       |
| Grid Scale        | 15 ft       |

ZONAL LUMEN SUMMARY

| Zone                        | Lumens | % Luminaire |
|-----------------------------|--------|-------------|
| Downward Street Side        | 4175   | 50.0%       |
| Downward House Side         | 4175   | 50.0%       |
| Downward Total              | 8349   | 100.0%      |
| Upward Street Side          | 0      | 0.0%        |
| Upward House Side           | 0      | 0.0%        |
| Upward Total                | 0      | 0.0%        |
| Total Flux                  | 8349   | 100%        |
BNSK2
ARCHITECTURAL AREA/SITE

TM-30 DATA

COLOR VECTOR GRAPHIC

TEST SOURCE

| Wavelength (nm) | Relative Power |
|-----------------|----------------|
| 380             | 100%           |
| 430             | 80%            |
| 480             | 60%            |
| 530             | 40%            |
| 580             | 20%            |
| 630             | 10%            |
| 680             |                 |
| 730             |                 |
| 780             |                 |

SPECTRAL POWER DISTRIBUTION COMPARISON

ELECTRICAL DATA

| Drive Current (mA) | LED Count | System Watts | Line Voltage | Amps AC | Min. Power Factor | Max THD (%) | Dimming Range | Source current out of 0-10V | Absolute voltage range on 0-10V (+) |
|--------------------|-----------|--------------|--------------|---------|------------------|-------------|----------------|-----------------------------|----------------------------------------|
| 400                | 36L       | 4767         | 120-480      | 0.40    | 0.23             | 0.17        | 0.10           | 0mA                         | 1mA                                    |
| 615                |           | 70.65        | 120-480      | 0.59    | 0.34             | 0.26        | 0.20           | 1mA                         | 10% to 100%                           |
| 800                |           | 91.24        | 90.25        | 0.76    | 0.44             | 0.33        | 0.26           | 1mA                         | 0V                                    |

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°F)

| Ambient Temp. | 0     | 25,000 | 36,000 | 50,000 | 100,000 | Reported L70 |
|---------------|-------|--------|--------|--------|---------|--------------|
| 25°C / 77°F   | 100%  | 96.83% | 95.24% | 93.24% | 86.46%  | >60khrs      |

CRI Lumen Multiplier

| CCT | CRI | Multiplier |
|-----|-----|------------|
| 3000K | 0.919 |             |
| 4000K | 0.8941 |     |

* Multiple drivers used for this output, drive current listed is per driver

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