

# BNSK2

ARCHITECTURAL AREA/SITE

## FEATURES

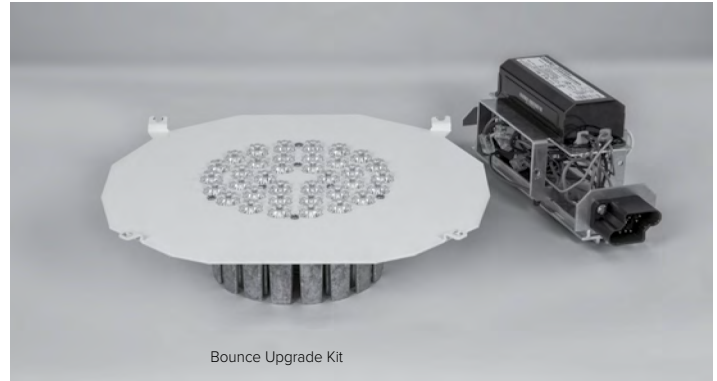
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- High performance optics up to 9,264 delivered lumens
- Type 1, 2, 3, 4W, 5QM distributions
- 0-10V dimming drivers standard
- Sealed optical chamber, IP66 certified



3000K and warmer CCTs only

See Certification Specifications

# Bounce®



Bounce Upgrade Kit

## CONTROL TECHNOLOGY

## RELATED PRODUCTS

Bounce Bollard

Bounce

BNM

## 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 perimete

- 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

### 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

### OPTICS

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

### 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

### WARRANTY

- 5 year warranty

## ORDERING GUIDE

Kit	Engine	CCT	Distribution	Voltage	Finish
BNSK2 Bounce 2.0	36L-400 400mA, 4,000 lm 36L-615 615mA, 6,000 lm 36L-800 800mA, 7,500 lm	AMB Amber 595nm Peak	1 Type I	UNV 120-277V	BLS Black Gloss Smooth
		3K7 3000K, 70 CRI	2 Type II	347 347V	BLT Black Matte Textured
		4K7 4000K, 70 CRI	3 Type III	480 480V	DBS Dark Bronze Gloss Smooth
		5K7 5000K, 70 CRI	4 Type IV		DBT Dark Bronze Matte Textured
			4W Type IV Wide		GTT Graphite Matte Textured
	5QM Type V Square		LGS Light Grey Gloss Smooth		
				LGT Light Grey Matte Textured	
				PSS Platinum Silver Gloss Smooth	
				VGT Verde Green Matte Textured	
				WHS White Gloss Smooth	
				WHT White Matte Textured	
				<b>Color Option</b>	
				CC Custom Color	

**BNSK2**

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**DELIVERED LUMENS**

**STANDARD CLEAR GLASS LENS**

LEDs #	Lumens Package	Drive Current (mA)	Nominal Watts	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
36L	4,000	400	48	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
				4W	4352	1	0	1	91.3	4440	1	0	1	93.1	4449	1	0	1	93.3
				4W-HS	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
	6,000	615	71	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
				4W	6004	1	0	2	85.0	6125	1	0	2	86.7	6137	1	0	2	86.9
				4W-HS	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
	7,500	800	91	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	35.6	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	1	80.3
				3-HS	3192	0	0	0	35.0	3256	0	0	0	35.7	3263	0	0	0	35.9
				4W	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

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**DELIVERED LUMENS (CONTINUED)**

**CP (CLEAR POLYCARBONATE)**

LEDs #	Lumens Package	Drive Current (mA)	Nominal Watts	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
36L	4,000	400	48	1	5153	1	3	0	108.1	5256	1	3	0	110.3	5267	1	3	0	110.5
				1-HS	2527	0	2	0	53.0	2578	0	2	0	54.1	2583	0	2	0	54.2
				2	4898	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			
	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**

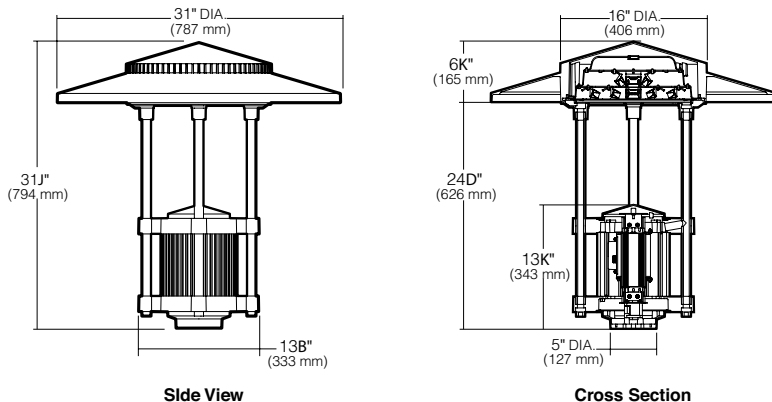
ARCHITECTURAL AREA/SITE

**DELIVERED LUMENS (CONTINUED)**

**SAG LENS (CGL)**

LEDs #	Lumens Package	Drive Current (mA)	Nominal Watts	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
36L	4,000	400	48	1	5364	1	3	1	112.5	5472	1	3	1	114.8	5483	1	3	1	115.0
				1-HS	2631	0	2	0	55.2	2684	0	2	0	56.3	2689	0	2	0	56.4
				2	5099	1	3	1	107.0	5201	1	3	1	109.1	5212	1	3	1	109.3
				2-HS	2122	0	2	0	44.5	2165	0	2	0	45.4	2169	0	2	0	45.5
				3	4682	1	3	1	98.2	4776	1	3	1	100.2	4786	1	3	1	100.4
				3-HS	2087	0	2	0	43.8	2129	0	2	0	44.7	2133	0	2	0	44.7
				4W	4785	1	3	1	100.4	4881	1	3	1	102.4	4891	1	3	1	102.6
				4W-HS	1956	0	2	0	41.0	1995	0	2	0	41.8	1999	0	2	0	41.9
				5Q	5320	2	3	0	111.6	5427	2	3	0	113.8	5438	2	3	0	114.1
	6,000	615	71	1	7400	1	3	1	104.7	7548	1	3	1	106.8	7564	1	3	1	107.1
				1-HS	3629	0	3	0	51.4	3702	0	3	0	52.4	3710	0	3	0	52.5
				2	7034	1	3	1	99.6	7175	1	3	1	101.6	7190	1	3	1	101.8
				2-HS	2928	0	2	0	41.4	2987	0	2	0	42.3	2993	0	2	0	42.4
				3	6459	1	3	1	91.4	6589	1	3	1	93.3	6603	1	3	1	93.5
				3-HS	2879	0	2	0	40.7	2937	0	2	0	41.6	2943	0	2	0	41.7
				4W	6601	1	3	2	93.4	6734	1	3	2	95.3	6748	1	3	2	95.5
				4W-HS	2698	0	2	0	38.2	2752	0	2	0	39.0	2758	0	2	0	39.0
				5Q	7339	3	3	1	103.9	7487	3	3	1	106.0	7502	1	0	2	106.2
	7,500	800	91	1	9063	1	3	1	99.3	9245	1	3	1	101.3	9264	1	3	1	101.5
				1-HS	4445	0	3	0	48.7	4534	0	3	0	49.7	4544	0	3	0	49.8
				2	8615	2	3	1	94.4	8788	2	3	1	96.3	8806	2	3	1	96.5
				2-HS	3586	0	3	0	39.3	3658	0	3	0	40.1	3666	0	3	0	40.2
				3	7911	1	3	2	86.7	8070	1	3	2	88.5	8087	1	3	2	88.5
				3-HS	3526	0	2	0	38.6	3597	0	2	0	39.4	3604	0	2	0	39.5
				4W	8085	1	3	2	88.6	8248	1	3	2	90.4	8265	1	3	2	90.6
				4W-HS	3304	0	2	1	36.2	3371	0	2	1	36.9	3378	0	2	1	37.0
				5Q	8989	3	3	1	98.5	9169	3	3	1	100.5	9188	3	3	1	100.7

**DIMENSIONS**



# BNSK2

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## PHOTOMETRY

### BNS2-36L-800-4K7-1

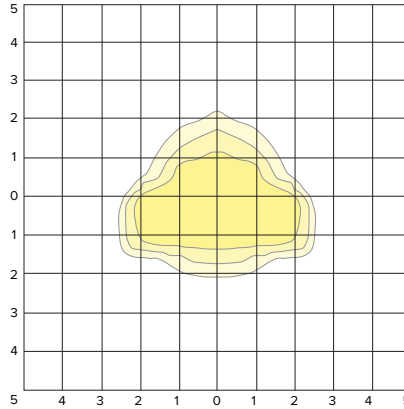
#### LUMINAIRE DATA

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	% Luminaire
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

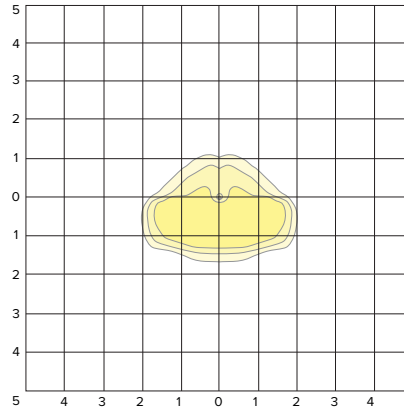
#### LUMINAIRE DATA

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	% Luminaire
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

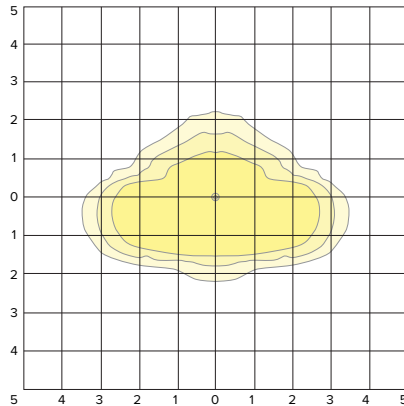
#### LUMINAIRE DATA

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	% Luminaire
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

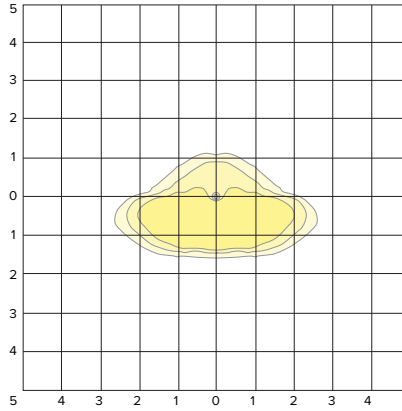
## PHOTOMETRY

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

#### LUMINAIRE DATA

Description	<b>4000K, 70CRI</b>
Delivered Lumens	<b>3315</b>
Watts	<b>91.24</b>
Efficacy	<b>36.3</b>
IES Type	<b>II</b>
BUG Rating	<b>B0-U0-G0</b>
Mounting Height	<b>15 ft</b>
Grid Scale	<b>15 ft</b>

#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

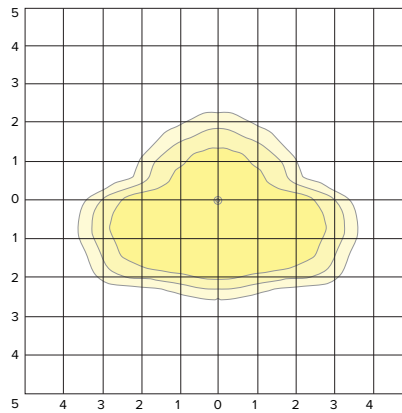
Zone	Lumens	% Luminaire
Downward Street Side	3054	92.0%
Downward House Side	261	7.9%
Downward Total	3315	99.9%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3315	100%

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

#### LUMINAIRE DATA

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

#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

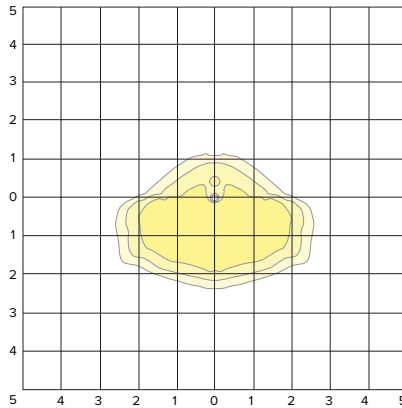
Zone	Lumens	% Luminaire
Downward Street Side	5838	79.9%
Downward House Side	1470	20.1%
Downward Total	7308	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	7308	100%

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

#### LUMINAIRE DATA

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

#### ISOFOOT CANDLE PLOT



#### 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%

# BNSK2

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

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

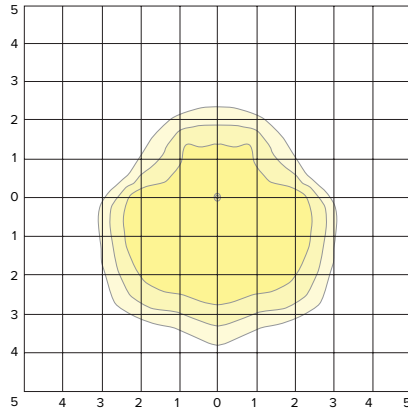
#### LUMINAIRE DATA

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%

#### ISOFOOT CANDLE PLOT



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

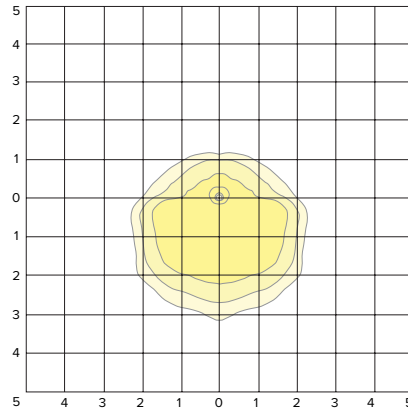
#### LUMINAIRE DATA

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%

#### ISOFOOT CANDLE PLOT



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

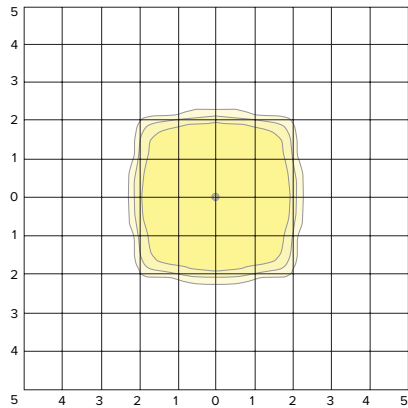
#### LUMINAIRE DATA

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%

#### ISOFOOT CANDLE PLOT

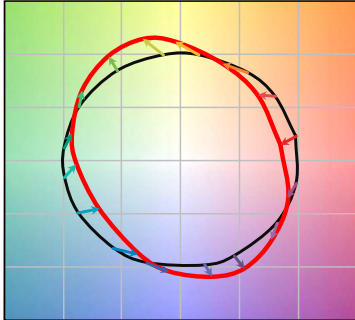


# BNSK2

ARCHITECTURAL AREA/SITE

## TM-30 DATA

### COLOR VECTOR GRAPHIC

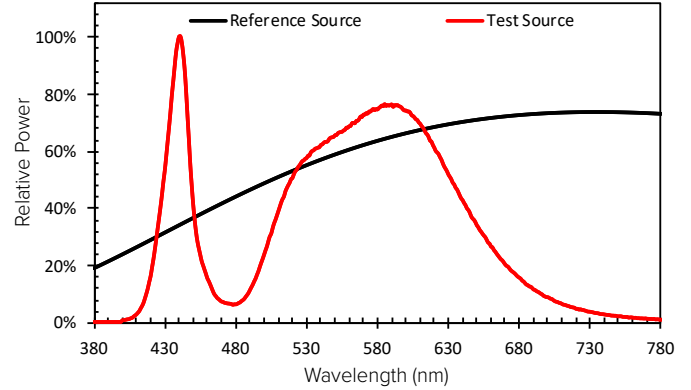


— Reference Illuminant — Test Source

### TEST SOURCE

R <sub>f</sub>	68
R <sub>a</sub>	99
CCT(K)	3947
D <sub>uv</sub>	0.0004
x	0.3831
y	0.3793
CIE R <sub>a</sub>	72

### SPECTRAL POWER DISTRIBUTION COMPARISON



## ELECTRICAL DATA

Electrical Characteristics											Dimming						
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 (+)	
			VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max
400	36L	47.67	120-480	50/60	0.40	0.23	0.20	0.17	0.14	0.10	>0.9	20	10% to 100%	0mA	1mA	0V	10V
615		70.65			0.59	0.34	0.29	0.26	0.20	0.15							
800		91.24			0.76	0.44	0.38	0.33	0.26	0.19							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)						
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	80 CRI
3000K	0.9119
4000K	0.8941

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