



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Outdoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014

**Prepared For**  
**B-K LIGHTING INC**

DANIEL CARREJO  
40429 BRICKYARD DR.  
MADERA, CA 93636-9515  
UNITED STATES

**Catalog Number**  
**YK-I-LED-A4080-WHP-SD-60-B1-010-MT-PROTOTYPE(4000K w/ Steps)**

Order Number  
13280094  
Test Number  
13280094.05

Test Date

2020-04-28

Prepared By

Austin Duff, Technician

Approved By

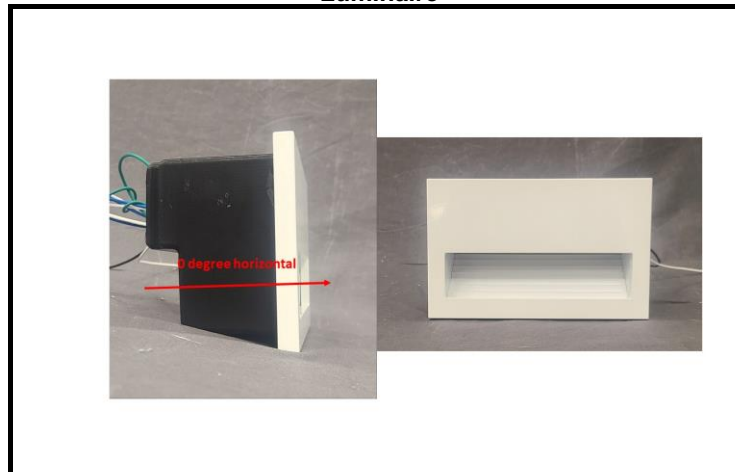
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Black rectangular plastic housing with white metal step reflector, clear glass lens, and diffuse plastic film  
**Lamp:** 24 White LEDs  
**Mounting:** Recessed  
**Ballast/Driver:** ERP ESS015W-0440-25

#### Luminaire



#### Luminaire Characteristics

Luminous Length: 0.00 in.  
6.750

#### Summary of Results

Roadway Classification: Type III, Very Short  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U3 G1

#### Test Conditions

Test Temperature: 24.3 °C  
Voltage: 120.1 VAC  
Current: 0.1008 A  
Power: 11.94 W  
Power Factor: 0.986  
Frequency: 60 Hz  
Current THD: 13.0 %

Tested in 30 planes left side, 30 planes right side, left and right averaged  
Vertical test increments are 2.5 degrees  
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

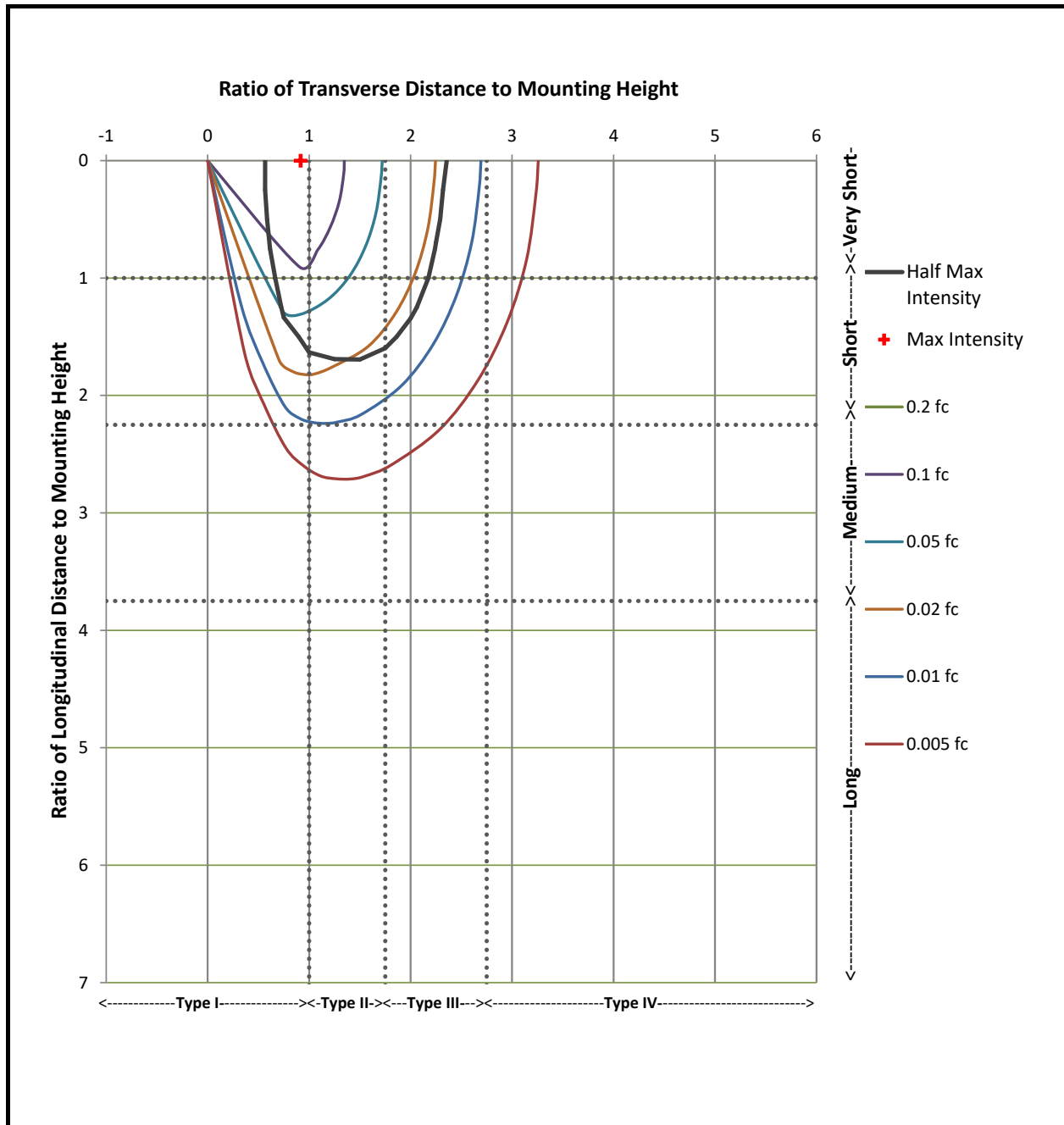
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.1 VAC	0.1008 A	11.94 W	0.986	60 Hz	13.0 %

### Summary of Results

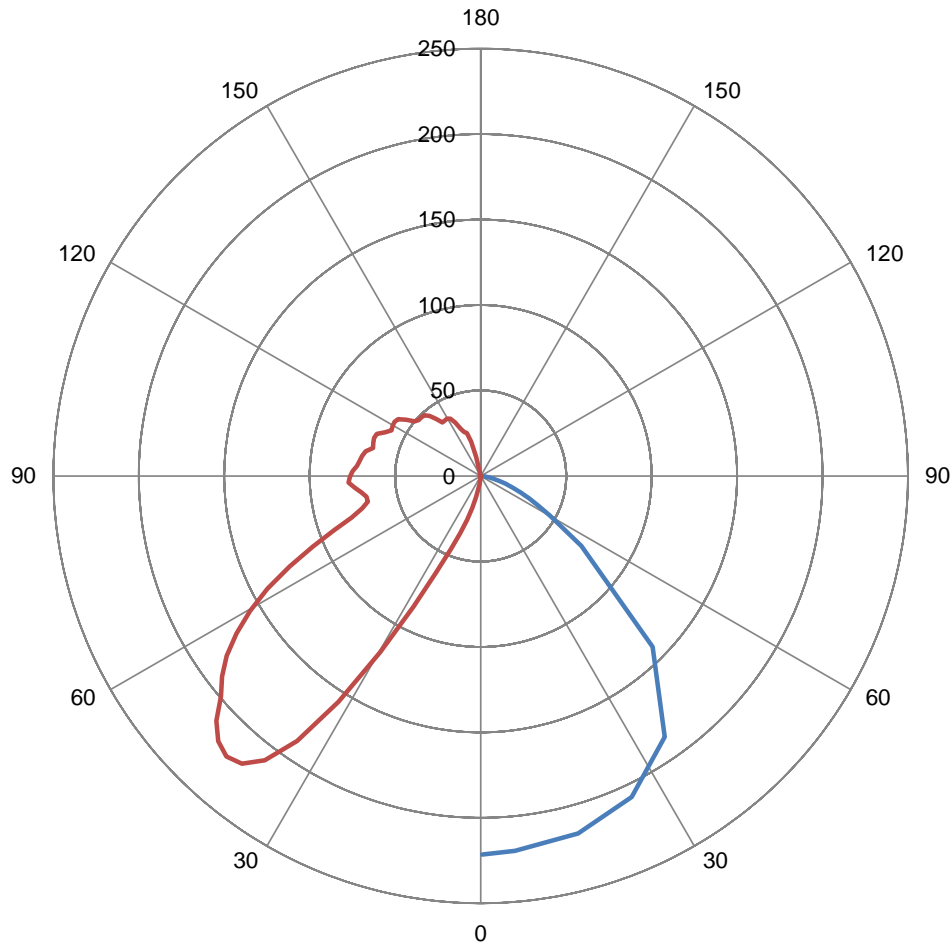
IES Roadway Classification:	Type III, Very Short	Total Lumen Output:	348 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	29.2 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	221 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

42.5 ° Vertical

Maximum Intensity (Candlepower):

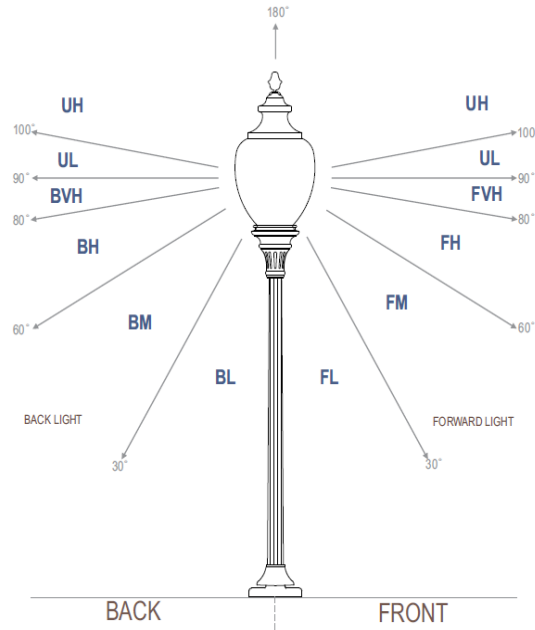
221 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	24.9	7.2%	120-125	8.7	2.5%
5-10	0.1	0.0%	65-70	20.9	6.0%	125-130	7.6	2.2%
10-15	0.4	0.1%	70-75	16.2	4.6%	130-135	6.7	1.9%
15-20	1.2	0.3%	75-80	12.8	3.7%	135-140	5.8	1.7%
20-25	2.6	0.7%	80-85	12.0	3.4%	140-145	4.7	1.3%
25-30	5.3	1.5%	85-90	12.7	3.7%	145-150	3.8	1.1%
30-35	10.4	3.0%	90-95	12.5	3.6%	150-155	2.9	0.8%
35-40	16.8	4.8%	95-100	11.9	3.4%	155-160	1.9	0.5%
40-45	22.2	6.4%	100-105	11.3	3.2%	160-165	1.0	0.3%
45-50	25.8	7.4%	105-110	10.8	3.1%	165-170	0.3	0.1%
50-55	27.4	7.9%	110-115	10.1	2.9%	170-175	0.0	0.0%
55-60	27.2	7.8%	115-120	9.4	2.7%	175-180	0.0	0.0%



**IES "BUG" Rating**  
(Back Light, Uplight, Glare)  
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	9.7	2.8%
FM	(30-60)	129.7	37.3%
FH	(60-80)	74.8	21.5%
FVH	(80-90)	24.7	7.1%
BL	(0-30)	0.0	0.0%
BM	(30-60)	0.0	0.0%
BH	(60-80)	0.0	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	24.4	7.0%
UH	(100-180)	84.9	24.4%
Total		348.0	100.0%
<b>BUG Rating</b>	<b>B0 U3 G1</b>		