



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-B1-010-MT-PROTOTYPE(4000K w/ Steps) \* 60° \***

Order Number

13232558

Test Number

13232558.03

Test Date

2020-04-13

Prepared By

Khang Nguyen, 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 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 II, Very Short
Cutoff Classification:	Noncutoff
BUG Rating:	B0 U3 G1

**Test Conditions**

Test Temperature:	24.4 °C
Voltage:	120.0 VAC
Current:	0.1011 A
Power:	11.97 W
Power Factor:	0.987
Frequency:	60 Hz
Current THD:	13.1 %

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

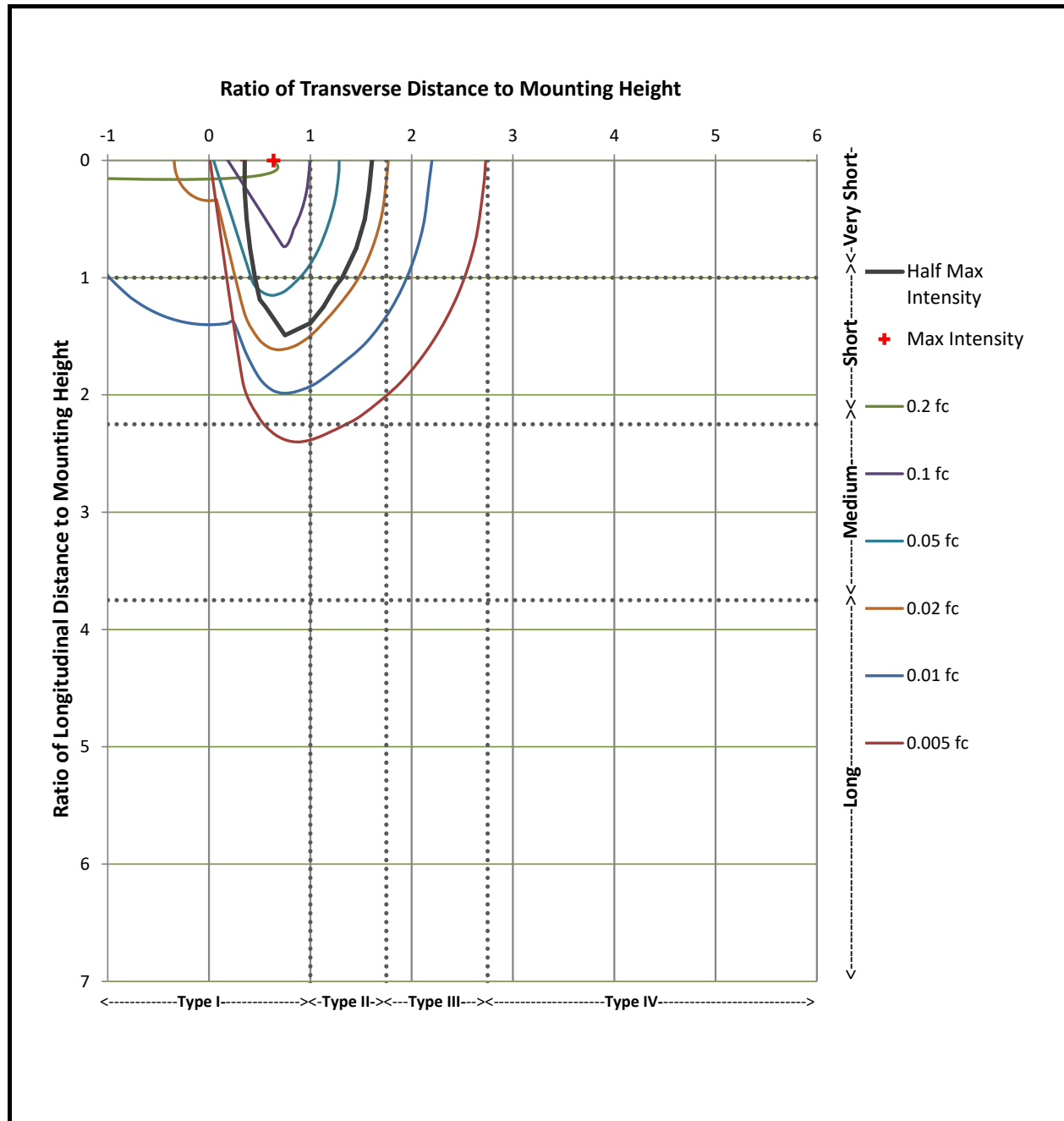
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.0 VAC	0.1011 A	11.97 W	0.987	60 Hz	13.1 %

### Summary of Results

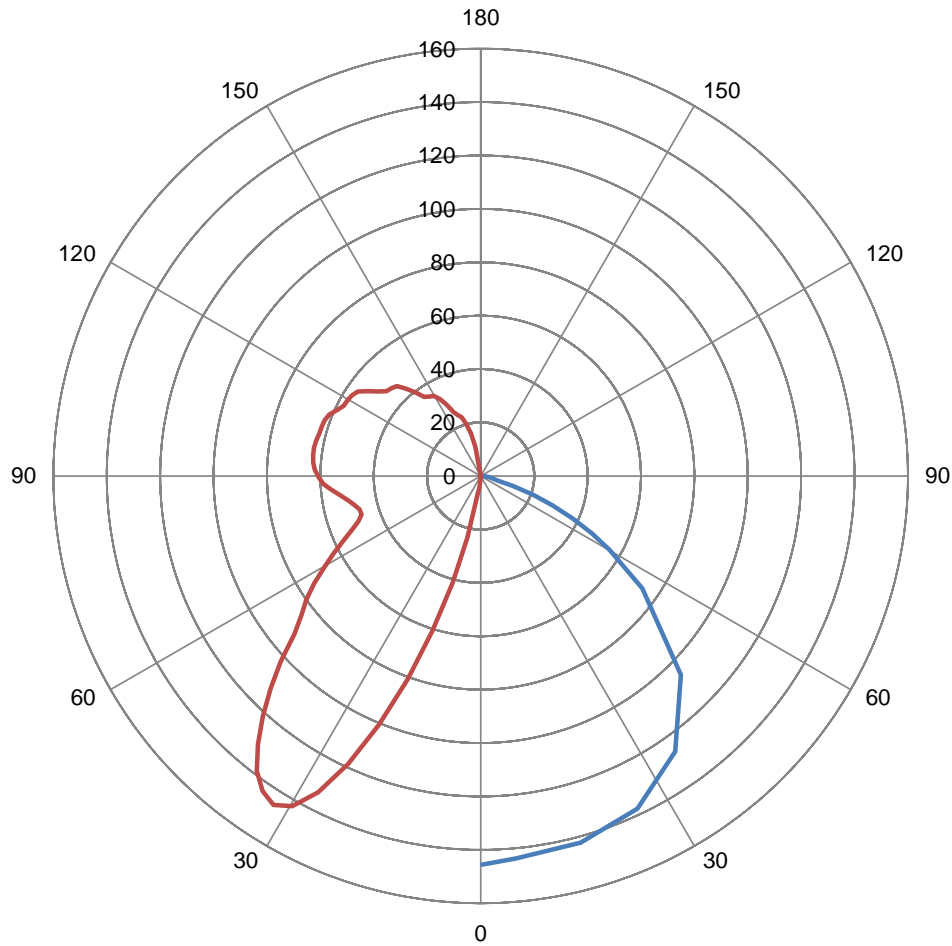
IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	274 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	22.9 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	146 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

32.5 ° Vertical

Maximum Intensity (Candlepower):

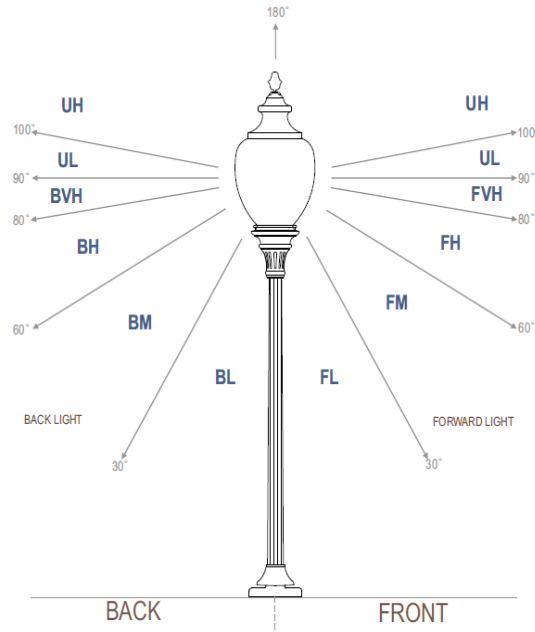
146 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	13.0	4.8%	120-125	8.3	3.0%
5-10	0.1	0.1%	65-70	11.0	4.0%	125-130	7.3	2.7%
10-15	0.8	0.3%	70-75	9.4	3.4%	130-135	6.3	2.3%
15-20	2.5	0.9%	75-80	8.7	3.2%	135-140	5.4	2.0%
20-25	5.5	2.0%	80-85	9.1	3.3%	140-145	4.3	1.6%
25-30	9.1	3.3%	85-90	10.0	3.7%	145-150	3.5	1.3%
30-35	12.6	4.6%	90-95	10.6	3.9%	150-155	2.7	1.0%
35-40	15.2	5.6%	95-100	10.8	3.9%	155-160	1.9	0.7%
40-45	16.5	6.0%	100-105	10.6	3.9%	160-165	1.2	0.4%
45-50	16.7	6.1%	105-110	10.3	3.8%	165-170	0.5	0.2%
50-55	16.0	5.8%	110-115	9.7	3.5%	170-175	0.1	0.0%
55-60	14.8	5.4%	115-120	9.0	3.3%	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)	18.0	6.6%
FM	(30-60)	91.7	33.5%
FH	(60-80)	42.1	15.4%
FVH	(80-90)	19.1	7.0%
BL	(0-30)	0.1	0.0%
BM	(30-60)	0.1	0.0%
BH	(60-80)	0.1	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	21.4	7.8%
UH	(100-180)	81.1	29.6%
Total		273.6	100.0%
<b>BUG Rating</b>	<b>B0 U3 G1</b>		