



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-D-LED-A4080-WHP-H-SD-010-MT-PROTOTYPE(Vertical)**

Order Number  
13280109  
Test Number  
13280109.16

Test Date

2020-04-09

Prepared By

Austin Duff, Technician

Approved By

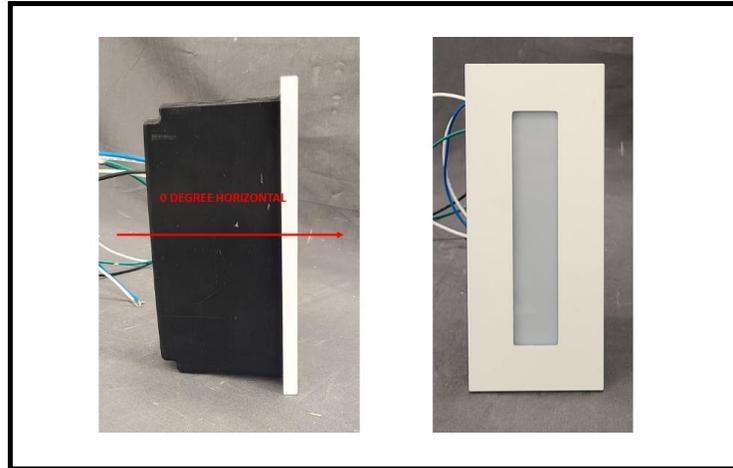
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Black plastic rectangular housing and white metal faceplate with clear glass lens  
**Lamp:** 24 White LEDs with diffuse plastic film  
**Mounting:** Recessed  
**Ballast/Driver:** ESS015W-0350-42

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 0.00 in.  
1.000

**Summary of Results**

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

**Test Conditions**

Test Temperature: 25.0 °C  
 Voltage: 120.2 VAC  
 Current: 0.08159 A  
 Power: 9.496 W  
 Power Factor: 0.969  
 Frequency: 60 Hz  
 Current THD: 17.1 %

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

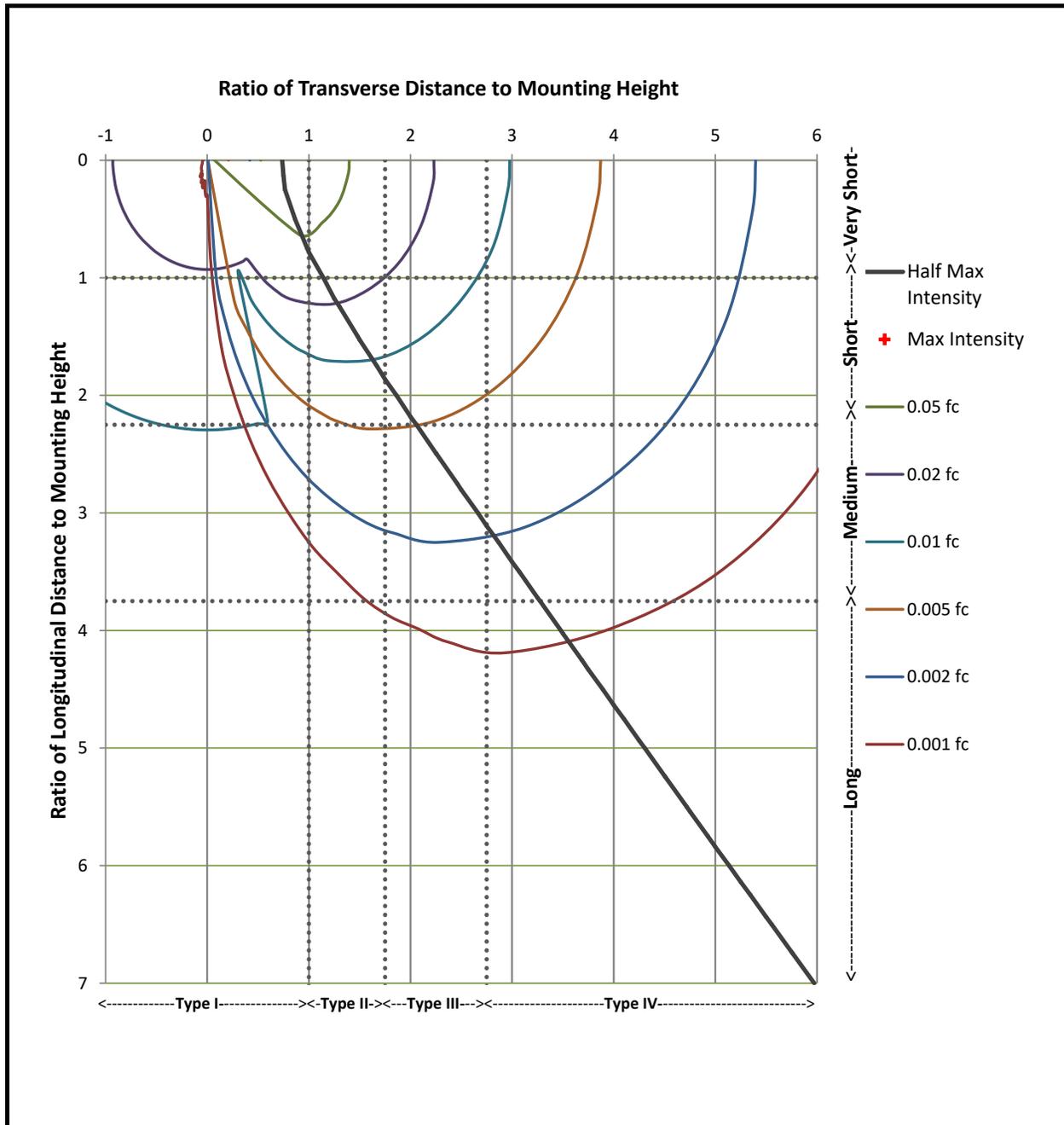
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.2 VAC	0.08159 A	9.496 W	0.969	60 Hz	17.1 %

### Summary of Results

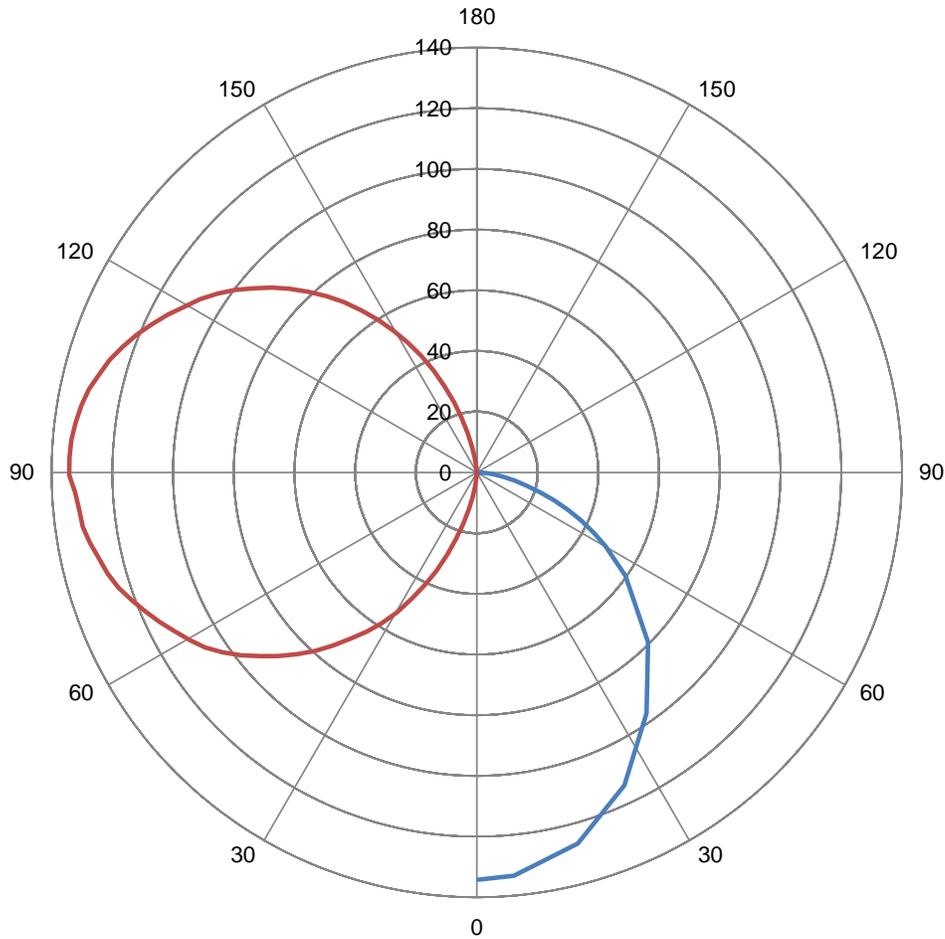
<b>IES Roadway Classification:</b>	Type II, Very Short	<b>Total Lumen Output:</b>	334 Lumens
<b>Cutoff Classification</b>	Noncutoff	<b>Luminaire Efficacy:</b>	35.2 lm/w
<b>BUG Rating:</b>	B0 U3 G1	<b>Maximum Candela:</b>	134 Candela

### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

90 ° Vertical

**Maximum Intensity (Candlepower):**

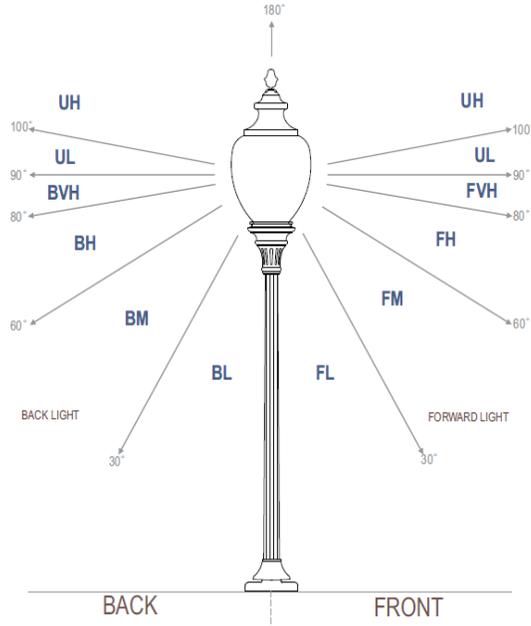
134 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	15.0	4.5%	120-125	13.3	4.0%
5-10	0.1	0.0%	65-70	16.4	4.9%	125-130	11.6	3.5%
10-15	0.5	0.1%	70-75	17.5	5.3%	130-135	9.8	2.9%
15-20	1.1	0.3%	75-80	18.5	5.5%	135-140	8.1	2.4%
20-25	2.0	0.6%	80-85	19.2	5.7%	140-145	6.3	1.9%
25-30	3.2	1.0%	85-90	19.5	5.8%	145-150	4.6	1.4%
30-35	4.7	1.4%	90-95	19.6	5.9%	150-155	3.2	1.0%
35-40	6.3	1.9%	95-100	19.4	5.8%	155-160	2.0	0.6%
40-45	8.0	2.4%	100-105	18.7	5.6%	160-165	1.0	0.3%
45-50	9.8	2.9%	105-110	17.6	5.3%	165-170	0.4	0.1%
50-55	11.7	3.5%	110-115	16.4	4.9%	170-175	0.1	0.0%
55-60	13.4	4.0%	115-120	14.9	4.5%	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)	6.8	2.0%
FM	(30-60)	53.7	16.1%
FH	(60-80)	67.3	20.1%
FVH	(80-90)	38.6	11.6%
BL	(0-30)	0.1	0.0%
BM	(30-60)	0.2	0.1%
BH	(60-80)	0.1	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	39.0	11.7%
UH	(100-180)	128.1	38.4%
Total		333.9	100.0%
<b>BUG Rating</b>	<b>B0 U3 G1</b>		