



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-V-SD-60-010-MT-PROTOTYPE(Vertical)

Order Number

13280109

Test Number

13280109.12A

Revised Date:

2020-04-27

Test Date

2020-03-23

Prepared By

Khang Nguyen, Technician

Approved By

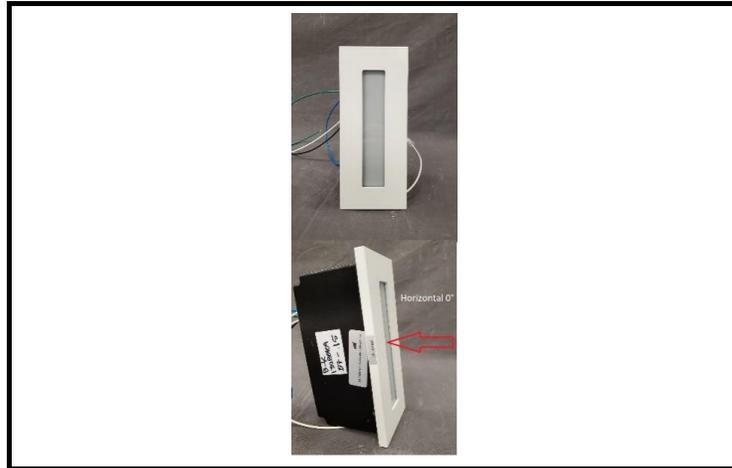
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



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: 24.7 °C
Voltage: 120.0 VAC
Current: 0.08161 A
Power: 9.494 W
Power Factor: 0.969
Frequency: 60 Hz
Current THD: 17.0 %

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

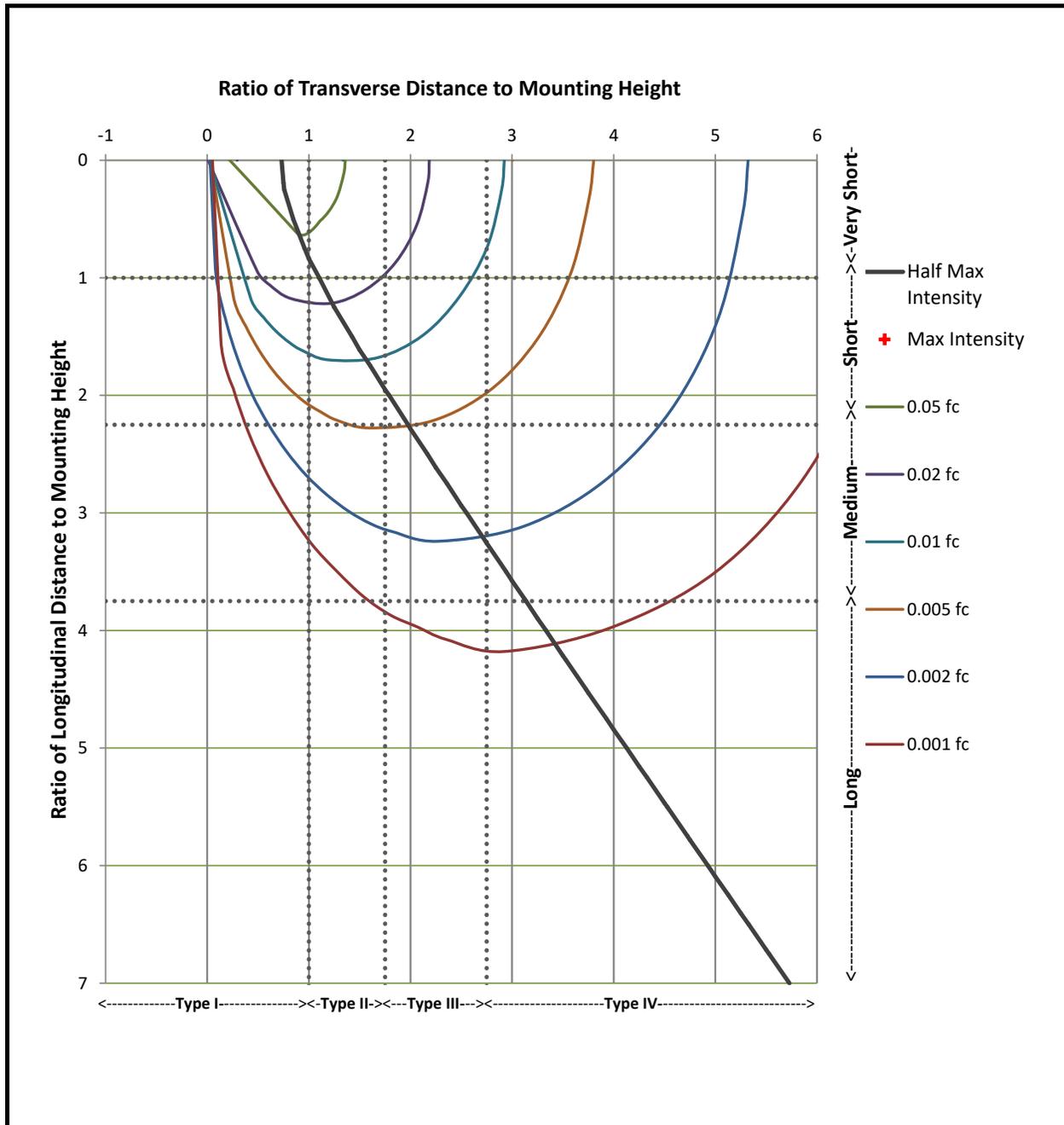
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.08161 A	9.494 W	0.969	60 Hz	17.0 %

Summary of Results

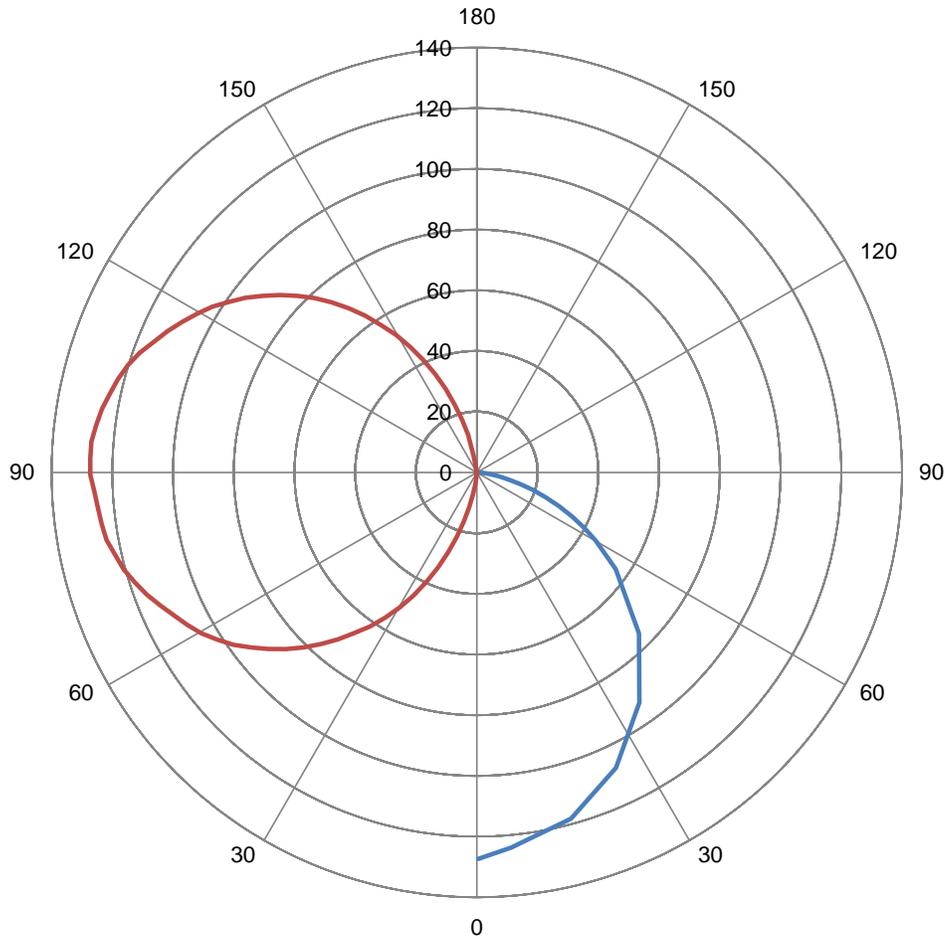
IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	324 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	34.1 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	127 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

92.5 ° Vertical

Maximum Intensity (Candlepower):

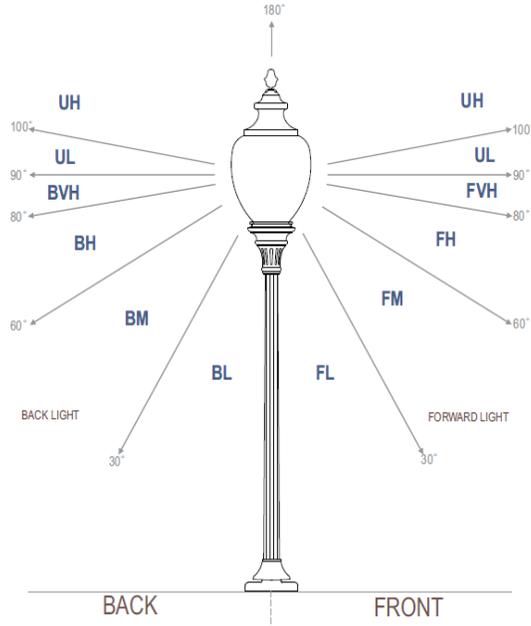
127 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	14.5	4.5%	120-125	12.9	4.0%
5-10	0.1	0.0%	65-70	15.9	4.9%	125-130	11.3	3.5%
10-15	0.4	0.1%	70-75	17.0	5.3%	130-135	9.6	3.0%
15-20	1.0	0.3%	75-80	18.0	5.6%	135-140	7.9	2.4%
20-25	1.9	0.6%	80-85	18.6	5.7%	140-145	6.1	1.9%
25-30	3.1	1.0%	85-90	18.9	5.8%	145-150	4.5	1.4%
30-35	4.5	1.4%	90-95	19.0	5.9%	150-155	3.1	1.0%
35-40	6.1	1.9%	95-100	18.8	5.8%	155-160	1.9	0.6%
40-45	7.8	2.4%	100-105	18.1	5.6%	160-165	1.0	0.3%
45-50	9.6	3.0%	105-110	17.1	5.3%	165-170	0.4	0.1%
50-55	11.3	3.5%	110-115	15.9	4.9%	170-175	0.0	0.0%
55-60	13.0	4.0%	115-120	14.4	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)	6.5	2.0%
FM	(30-60)	52.2	16.1%
FH	(60-80)	65.4	20.2%
FVH	(80-90)	37.5	11.6%
BL	(0-30)	0.0	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)	37.8	11.7%
UH	(100-180)	124.1	38.3%
Total		323.7	100.0%
BUG Rating	B0 U3 G1		