



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) * 0° *

Order Number

13232558

Test Number

13232558.01

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 IV, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B0 U3 G1

Test Conditions

Test Temperature: 24.3 °C
Voltage: 120.0 VAC
Current: 0.1018 A
Power: 12.05 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

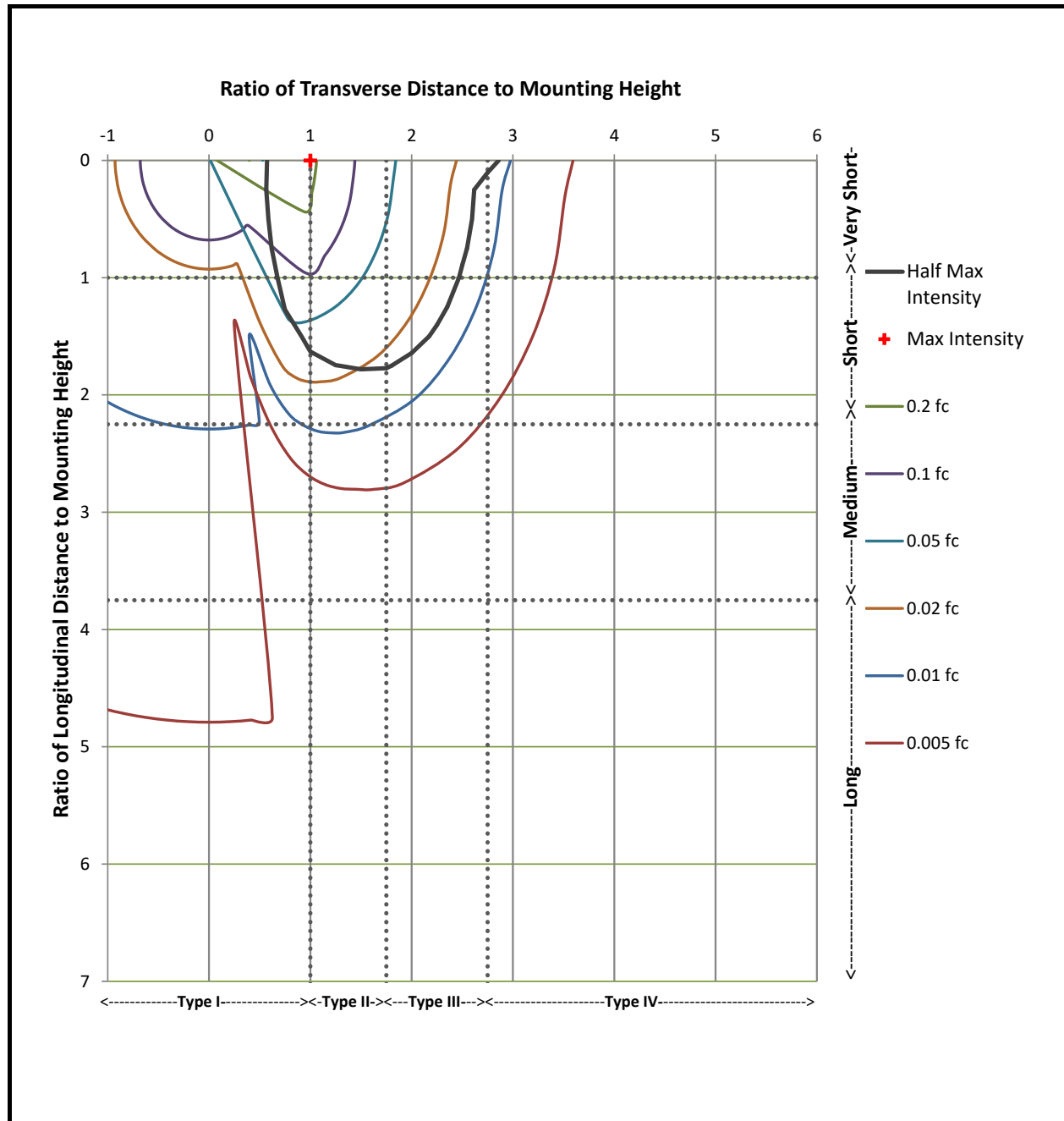
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.0 VAC	0.1018 A	12.05 W	0.987	60 Hz	13.1 %

Summary of Results

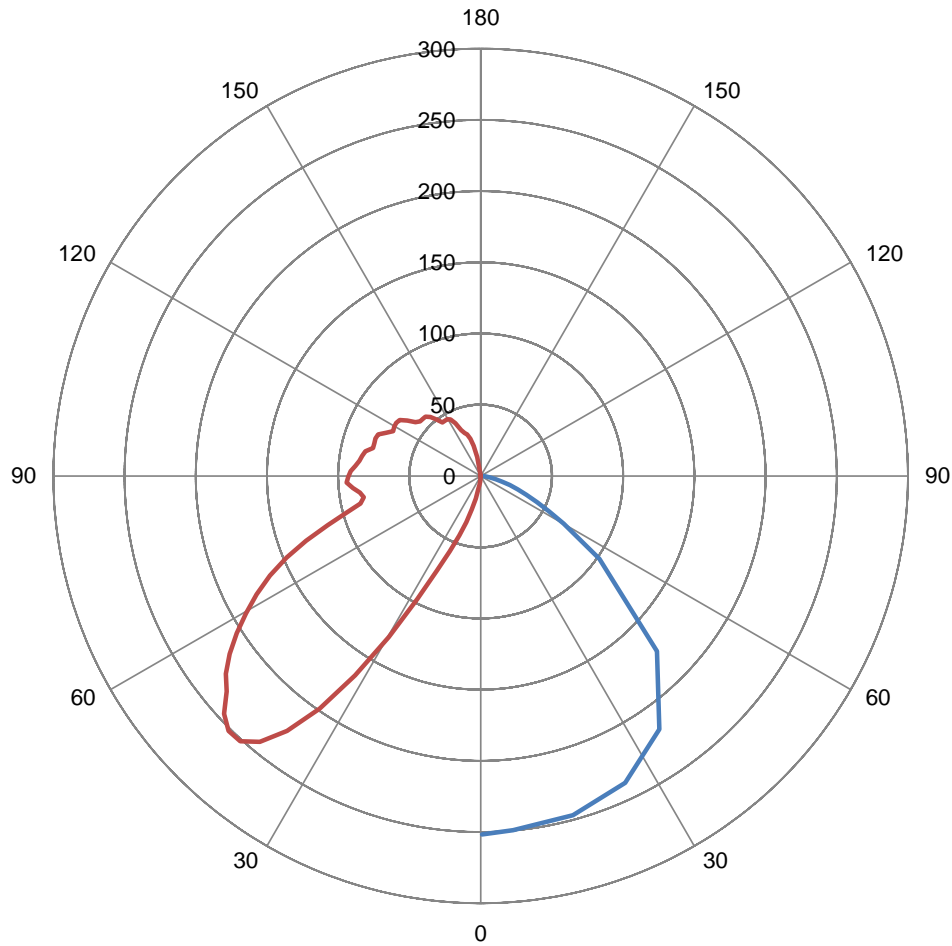
IES Roadway Classification:	Type IV, Very Short	Total Lumen Output:	414 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	34.3 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	252 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

45 ° Vertical

Maximum Intensity (Candlepower):

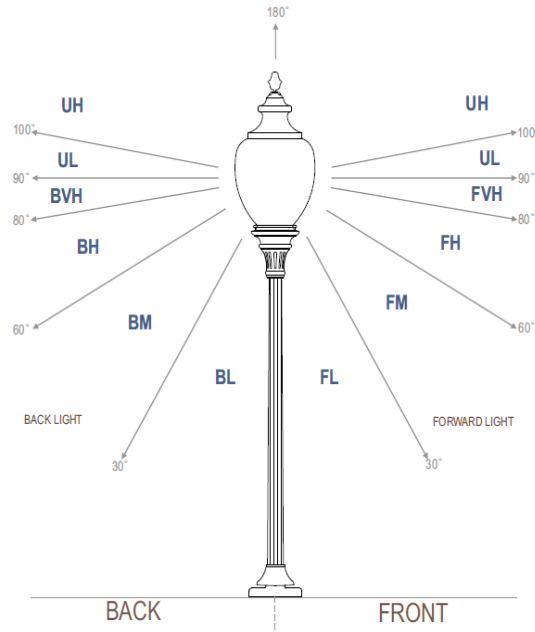
252 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	29.8	7.2%	120-125	10.2	2.5%
5-10	0.2	0.0%	65-70	25.8	6.2%	125-130	9.0	2.2%
10-15	0.6	0.1%	70-75	20.6	5.0%	130-135	7.9	1.9%
15-20	1.5	0.4%	75-80	16.1	3.9%	135-140	6.9	1.7%
20-25	3.2	0.8%	80-85	14.7	3.5%	140-145	5.6	1.4%
25-30	6.3	1.5%	85-90	15.4	3.7%	145-150	4.7	1.1%
30-35	11.7	2.8%	90-95	15.1	3.7%	150-155	3.6	0.9%
35-40	18.7	4.5%	95-100	14.2	3.4%	155-160	2.4	0.6%
40-45	25.1	6.1%	100-105	13.5	3.3%	160-165	1.5	0.4%
45-50	29.4	7.1%	105-110	12.9	3.1%	165-170	0.7	0.2%
50-55	31.6	7.6%	110-115	12.0	2.9%	170-175	0.1	0.0%
55-60	31.7	7.7%	115-120	11.1	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)	11.7	2.8%
FM	(30-60)	148.0	35.8%
FH	(60-80)	92.2	22.3%
FVH	(80-90)	30.1	7.3%
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)	29.3	7.1%
UH	(100-180)	102.0	24.7%
Total		413.6	100.0%
BUG Rating	B0 U3 G1		