



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
United States

Catalog Number
SQ-LT-12-LED-E72-WHP-F-PROTOTYPE(Shade)

Order Number
13290547
Test Number
13290547.04

Test Date

2020-06-18

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: White rectangular metal housing and diffuse plastic lens
Lamp: One (1) White LED
Mounting: VBD
Ballast/Driver: One (1) PowerSelect PS20U15K

Luminaire



Luminaire Characteristics

Luminous Length: 1.00 in.
Luminous Width: 1.000 in.

Summary of Results

Roadway Classification: Type IV, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B0 U1 G0

Test Conditions

Test Temperature: 25.2 °C
Voltage: 120.0 VAC
Current: 0.05371 A
Power: 3.608 W
Power Factor: 0.560
Frequency: 60 Hz
Current THD: 147 %

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

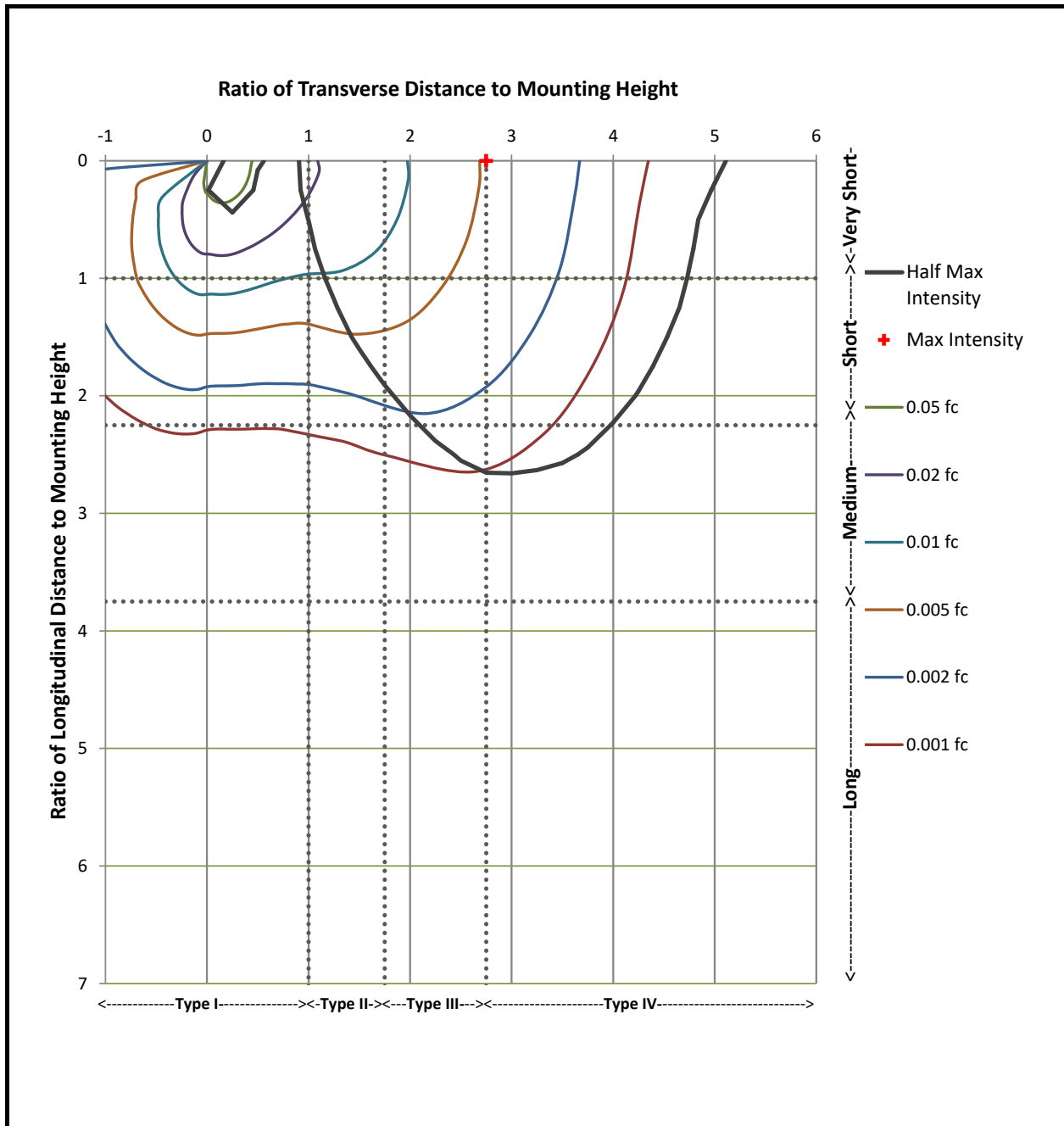
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.05371 A	3.608 W	0.560	60 Hz	147 %

Summary of Results

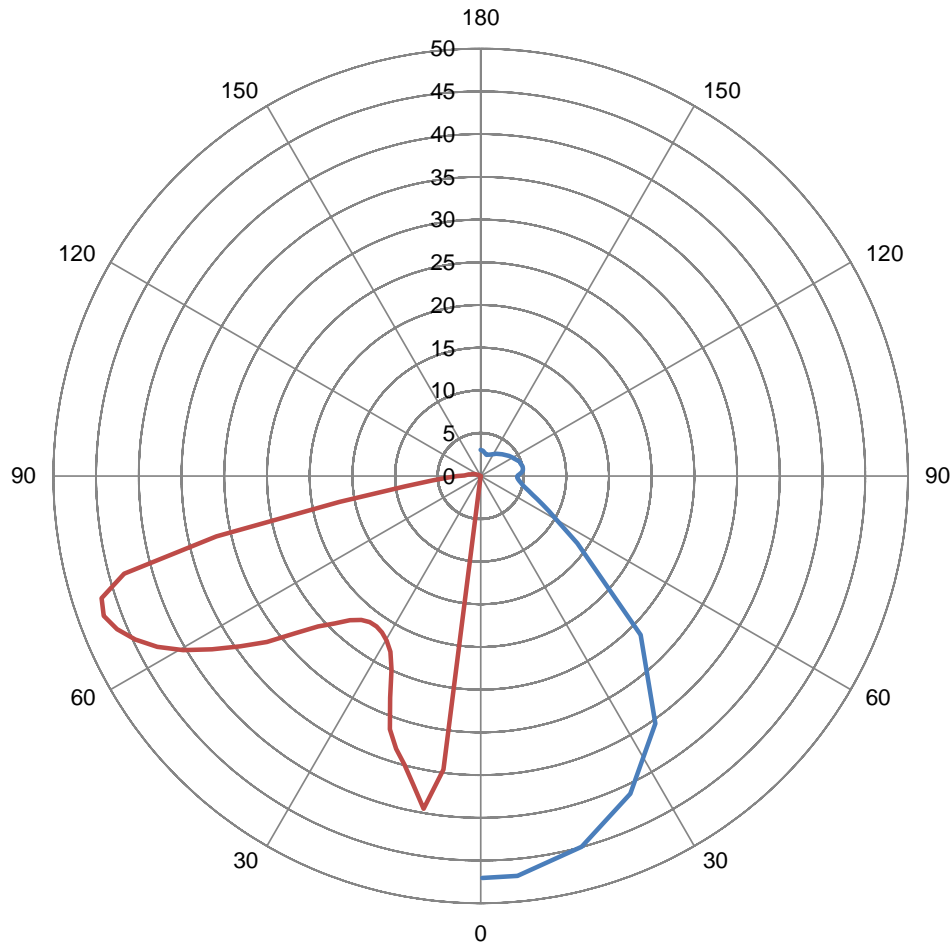
IES Roadway Classification:	Type IV, Very Short	Total Lumen Output:	76 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	20.9 lm/w
BUG Rating:	B0 U1 G0	Maximum Candela:	47 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

70 ° Vertical

Maximum Intensity (Candlepower):

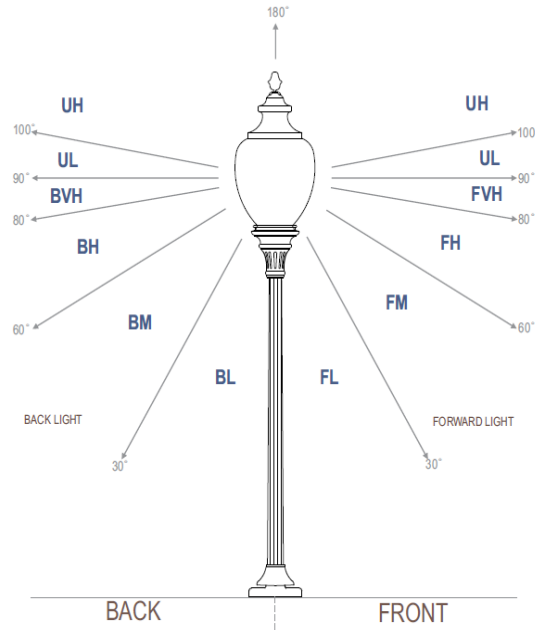
47 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	7.2	9.6%	120-125	0.0	0.0%
5-10	1.1	1.5%	65-70	7.5	9.9%	125-130	0.0	0.0%
10-15	2.5	3.2%	70-75	7.0	9.3%	130-135	0.0	0.0%
15-20	3.2	4.2%	75-80	4.6	6.0%	135-140	0.0	0.0%
20-25	3.6	4.8%	80-85	1.7	2.2%	140-145	0.0	0.0%
25-30	3.9	5.2%	85-90	0.7	0.9%	145-150	0.0	0.0%
30-35	4.3	5.6%	90-95	0.3	0.4%	150-155	0.0	0.0%
35-40	4.6	6.1%	95-100	0.2	0.2%	155-160	0.0	0.0%
40-45	5.0	6.6%	100-105	0.1	0.1%	160-165	0.0	0.0%
45-50	5.5	7.2%	105-110	0.1	0.1%	165-170	0.0	0.0%
50-55	6.0	8.0%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	6.7	8.8%	115-120	0.0	0.0%	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)	10.7	14.1%
FM	(30-60)	23.6	31.2%
FH	(60-80)	22.6	29.9%
FVH	(80-90)	2.1	2.8%
BL	(0-30)	3.6	4.8%
BM	(30-60)	8.4	11.1%
BH	(60-80)	3.7	4.9%
BVH	(80-90)	0.2	0.3%
UL	(90-100)	0.5	0.6%
UH	(100-180)	0.2	0.3%
Total		75.6	100.0%
BUG Rating	B0 U1 G0		