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Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014

Prepared For
B-K LIGHTING INC

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UNITED STATES

Catalog Number
YK-D-LED-A4080-WHP-V-SD-90-010-MT-PROTOTYPE(Vertical)

Order Number

13280109

Test Number

13280109.13A

Revised Date:

2020-04-27

Test Date

2020-03-24

Prepared By

Khang Nguyen, Technician

Approved By

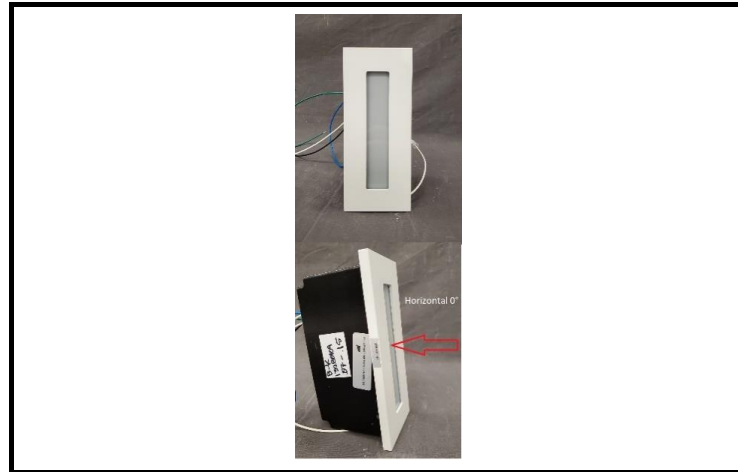
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Black 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: 120.0 VAC
Current: 0.08161 A
Power: 9.493 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

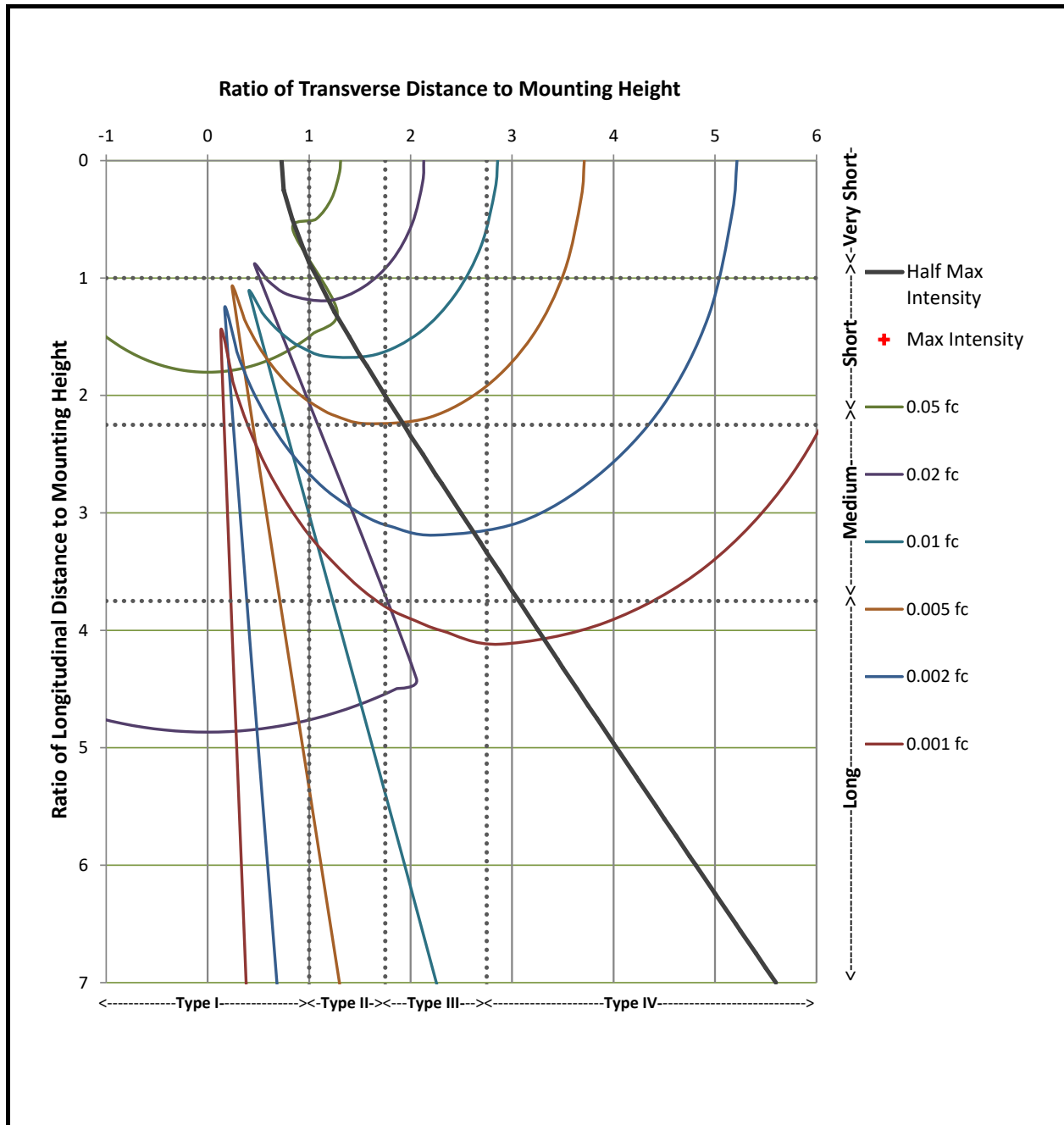
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.08161 A	9.493 W	0.969	60 Hz	17.0 %

Summary of Results

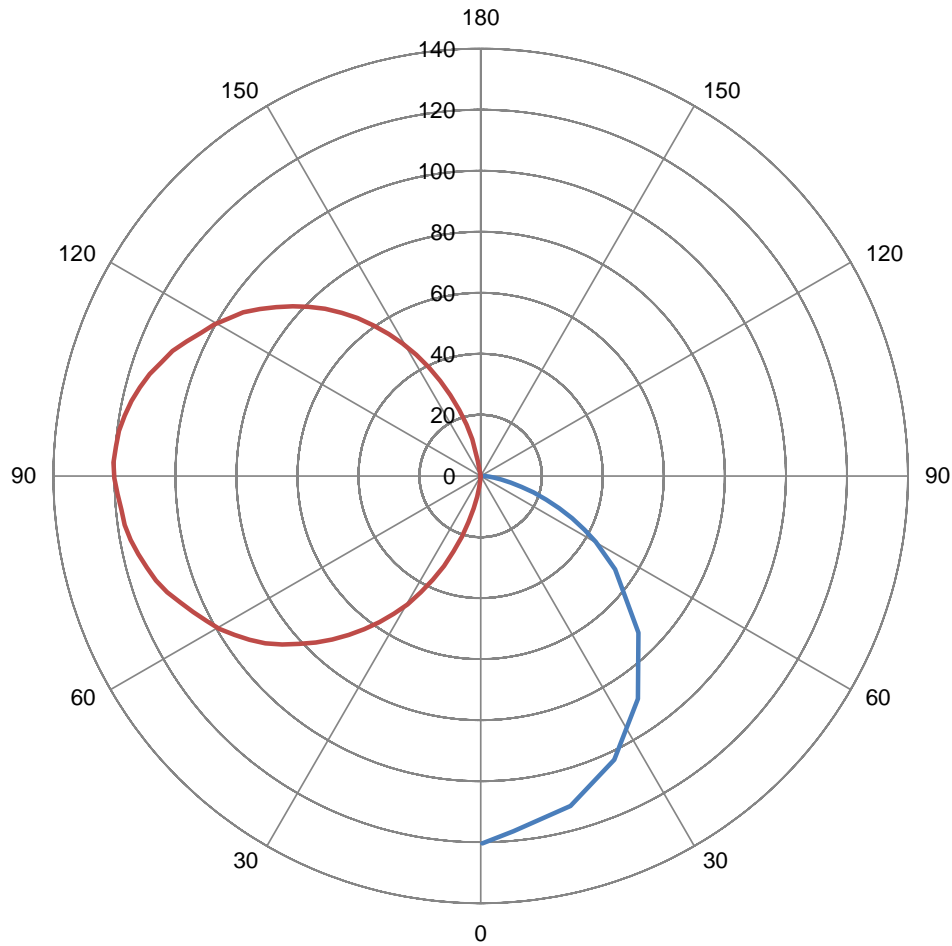
IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	309 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	32.5 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	120 Candela

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):

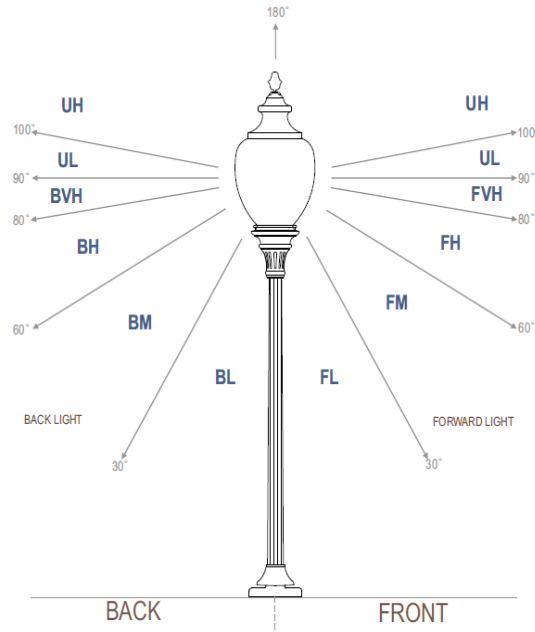
120 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	13.9	4.5%	120-125	12.3	4.0%
5-10	0.1	0.0%	65-70	15.2	4.9%	125-130	10.7	3.5%
10-15	0.4	0.1%	70-75	16.3	5.3%	130-135	9.1	3.0%
15-20	1.0	0.3%	75-80	17.1	5.5%	135-140	7.5	2.4%
20-25	1.8	0.6%	80-85	17.8	5.8%	140-145	5.9	1.9%
25-30	3.0	1.0%	85-90	18.1	5.8%	145-150	4.3	1.4%
30-35	4.3	1.4%	90-95	18.1	5.9%	150-155	2.9	1.0%
35-40	5.8	1.9%	95-100	17.9	5.8%	155-160	1.8	0.6%
40-45	7.4	2.4%	100-105	17.3	5.6%	160-165	0.9	0.3%
45-50	9.1	3.0%	105-110	16.3	5.3%	165-170	0.3	0.1%
50-55	10.8	3.5%	110-115	15.1	4.9%	170-175	0.0	0.0%
55-60	12.4	4.0%	115-120	13.8	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)	6.2	2.0%
FM	(30-60)	49.7	16.1%
FH	(60-80)	62.3	20.2%
FVH	(80-90)	35.8	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)	36.0	11.7%
UH	(100-180)	118.4	38.4%
Total		308.8	100.0%
BUG Rating	B0 U3 G1		