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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-I-LED-A4080-WHP-VR-B1-010-MT-PROTOTYPE(Visor w/ Steps)

Order Number
13280094
Test Number
13280094.07

Test Date

2020-04-28

Prepared By

Austin Duff, Technician

Approved By

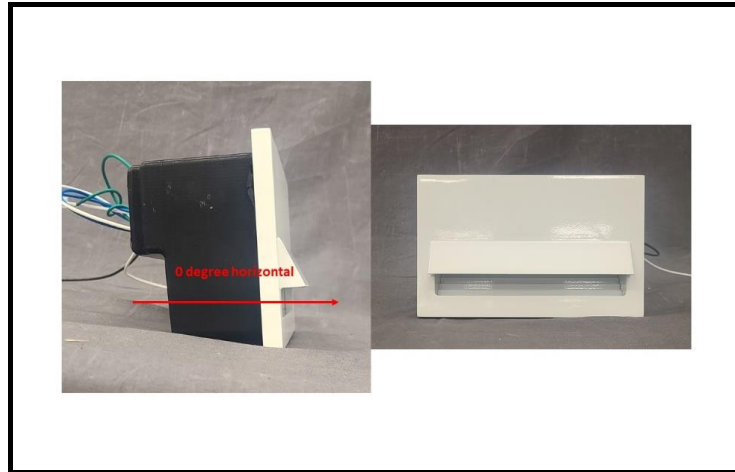
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Black rectangular plastic housing with white metal step 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: 0.50 in.
Luminous Width: 6.750 in.
Luminous Height: 0.75 in.

Summary of Results

Roadway Classification: Type II, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B0 U2 G1

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.1 VAC
Current: 0.1008 A
Power: 11.93 W
Power Factor: 0.986
Frequency: 60 Hz
Current THD: 13.0 %

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

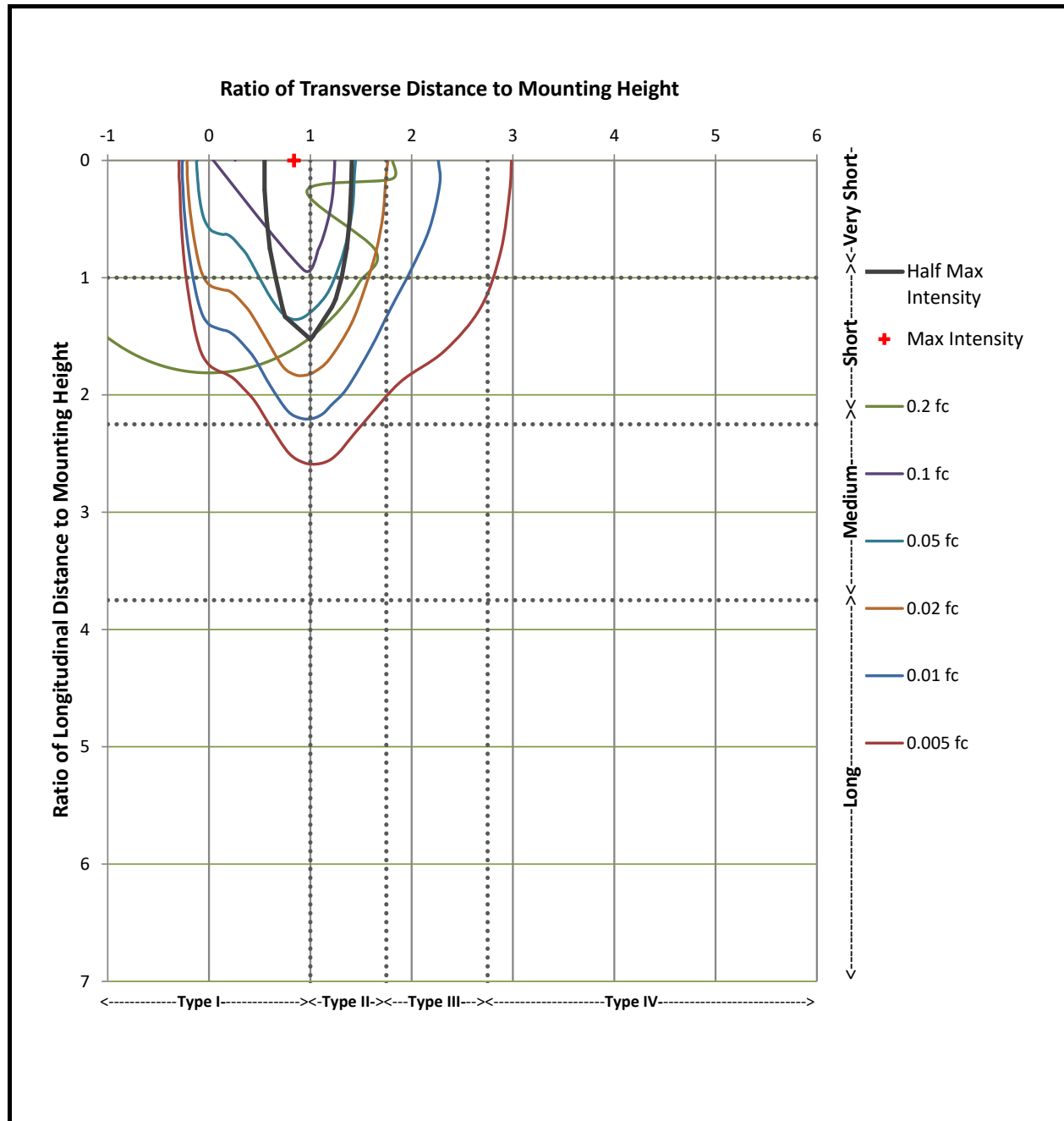
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1008 A	11.93 W	0.986	60 Hz	13.0 %

Summary of Results

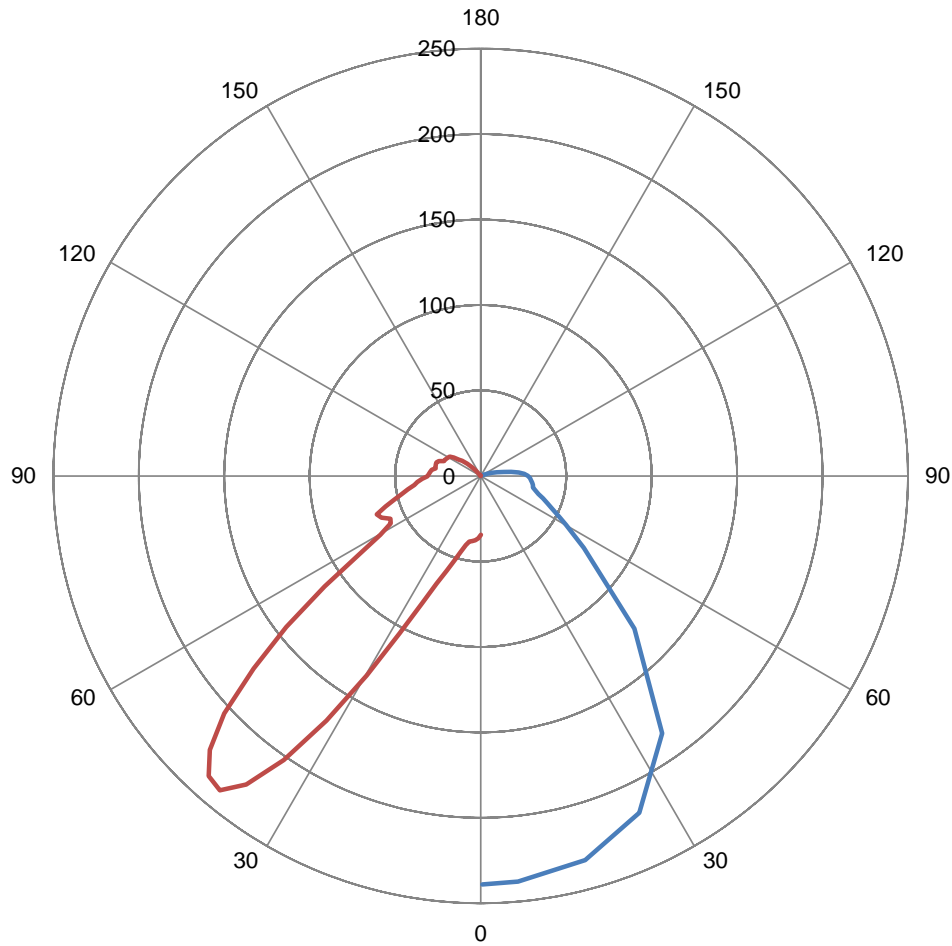
IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	258 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	21.6 lm/w
BUG Rating:	B0 U2 G1	Maximum Candela:	239 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

40 ° Vertical

Maximum Intensity (Candlepower):

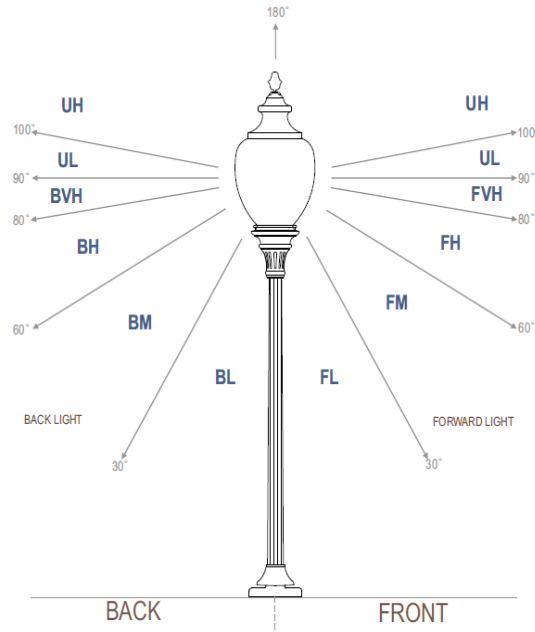
239 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.9	0.3%	60-65	16.6	6.5%	120-125	2.2	0.8%
5-10	2.2	0.9%	65-70	13.4	5.2%	125-130	1.4	0.5%
10-15	3.3	1.3%	70-75	11.4	4.4%	130-135	0.7	0.3%
15-20	4.5	1.8%	75-80	9.3	3.6%	135-140	0.2	0.1%
20-25	6.2	2.4%	80-85	7.7	3.0%	140-145	0.0	0.0%
25-30	9.0	3.5%	85-90	6.3	2.4%	145-150	0.0	0.0%
30-35	13.9	5.4%	90-95	5.3	2.1%	150-155	0.0	0.0%
35-40	20.5	8.0%	95-100	4.8	1.9%	155-160	0.0	0.0%
40-45	26.0	10.1%	100-105	4.4	1.7%	160-165	0.0	0.0%
45-50	28.4	11.0%	105-110	4.0	1.6%	165-170	0.0	0.0%
50-55	26.7	10.4%	110-115	3.4	1.3%	170-175	0.0	0.0%
55-60	21.8	8.5%	115-120	2.9	1.1%	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)	21.2	8.2%
FM	(30-60)	134.4	52.2%
FH	(60-80)	50.2	19.5%
FVH	(80-90)	13.9	5.4%
BL	(0-30)	4.9	1.9%
BM	(30-60)	3.0	1.2%
BH	(60-80)	0.5	0.2%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	10.1	3.9%
UH	(100-180)	19.2	7.5%
Total		257.6	100.0%
BUG Rating	B0 U2 G1		