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Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, IES LM-31-1995 (Withdrawn)
ANSI C82.77-2002

Prepared For
B-K LIGHTING INC

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United States

Catalog Number
AR-HS-20-LED-4000K

Order Number

11609579

Test Number

11609579.14

Test Date

2017-01-20

Prepared By

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Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Rectangular formed aluminum housing with white plastic diffuse lens.
Lamp: 24 White LEDs
Mounting: Surface – Wall
Ballast/Driver: FX95100

Luminaire



Luminaire Characteristics

Luminous Length: 2.00 in.
Luminous Width: 3.750 in.
Luminous Height: 18.00 in.

Summary of Results

Roadway Classification: Type I, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B0 U3 G1

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.08640 A
Power: 9.540 W
Power Factor: 0.921
Frequency: 60 Hz
Current THD: 41.6 %

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

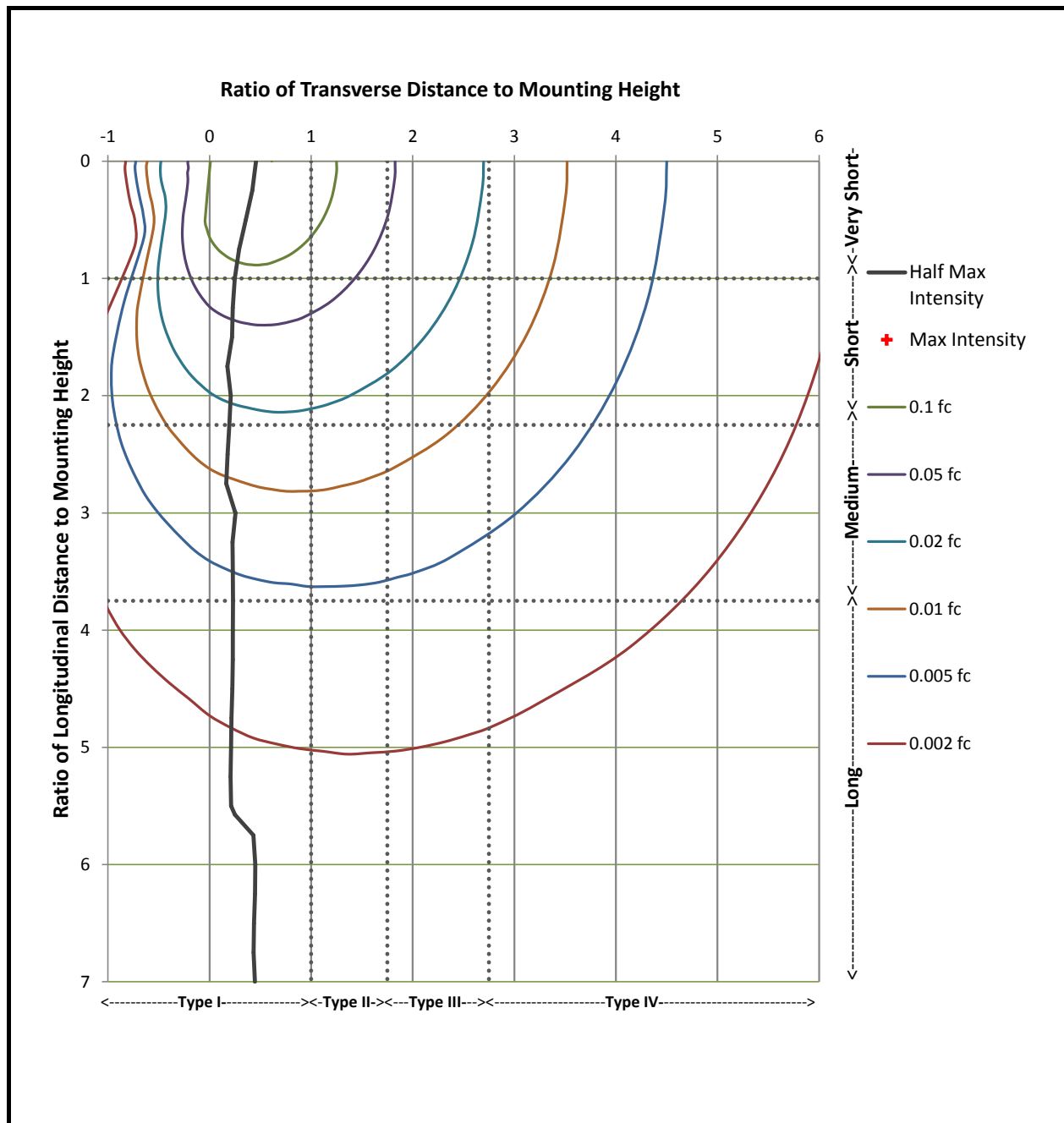
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.08640 A	9.540 W	0.921	60 Hz	41.6 %

Summary of Results

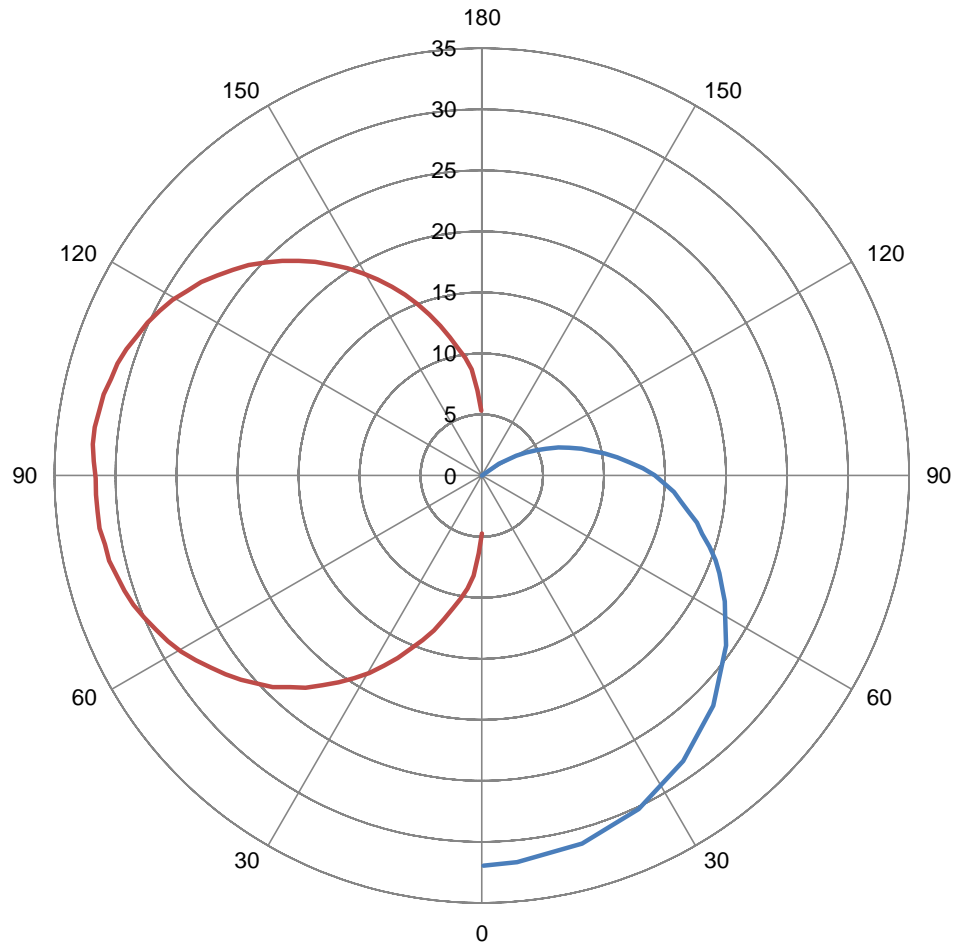
IES Roadway Classification:	Type I, Very Short	Total Lumen Output:	156 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	16.3 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	32 Candela

ISO FootCandle Plot at 8 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

95 ° Vertical

Maximum Intensity (Candlepower):

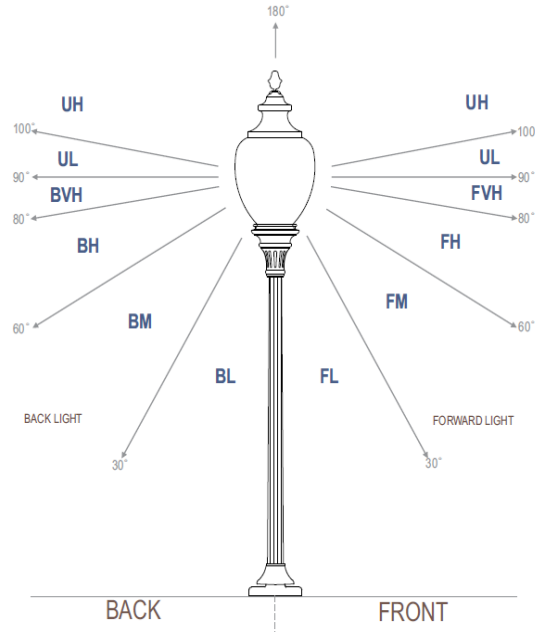
32 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.2	0.1%	60-65	6.5	4.2%	120-125	6.0	3.9%
5-10	0.5	0.3%	65-70	6.9	4.4%	125-130	5.5	3.5%
10-15	0.9	0.6%	70-75	7.3	4.7%	130-135	4.9	3.1%
15-20	1.3	0.8%	75-80	7.5	4.8%	135-140	4.2	2.7%
20-25	1.8	1.2%	80-85	7.7	4.9%	140-145	3.6	2.3%
25-30	2.4	1.5%	85-90	7.7	4.9%	145-150	3.0	1.9%
30-35	3.0	1.9%	90-95	7.8	5.0%	150-155	2.4	1.6%
35-40	3.6	2.3%	95-100	7.7	5.0%	155-160	1.9	1.2%
40-45	4.2	2.7%	100-105	7.6	4.9%	160-165	1.3	0.9%
45-50	4.8	3.1%	105-110	7.4	4.7%	165-170	0.9	0.6%
50-55	5.4	3.5%	110-115	7.0	4.5%	170-175	0.5	0.3%
55-60	6.0	3.8%	115-120	6.6	4.2%	175-180	0.2	0.1%



IES "BUG" Rating
(Back Light, Uplight, Glare)
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	5.3	3.4%
FM	(30-60)	23.3	14.9%
FH	(60-80)	25.1	16.1%
FVH	(80-90)	13.7	8.8%
BL	(0-30)	1.8	1.2%
BM	(30-60)	3.6	2.3%
BH	(60-80)	3.1	2.0%
BVH	(80-90)	1.7	1.1%
UL	(90-100)	15.5	10.0%
UH	(100-180)	62.9	40.4%
Total		155.9	100.0%
BUG Rating	B0 U3 G1		