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Photometric Test Report

Relevant Standards

IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

Prepared For

Cree, Inc

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Catalog Number

RSWS-A-HT-2ME-3L-40K8-UL-xxxx

Order Number

11644102

Test Number

11644102.04

Test Date

2017-03-02 - 2017-03-03

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.

Absorption correction was employed for Sphere measurement

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



Luminaire Description: Formed BMC housing, clear acrylic lens, white inner reflector
Lamp: 24 white LEDs
Mounting: Pole/Arm
Ballast/Driver: LEA03060X0010

Luminaire



Luminaire Characteristics

Luminous Length: 9.00 in.
Luminous Width: 6.000 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3250 Lumens
Efficacy: 114.7 lm/w
CCT: 3820 K
CRI (Ra): 81.0

Distribution

Roadway Classification: Type II, Very Short
Cutoff Classification: Semicutoff
BUG Rating: B1 U0 G1

Electrical Data at 277 VAC

Test Temperature: 25.5 °C
Voltage: 277.0 VAC
Current: 0.1133 A
Power: 28.94 W
Power Factor: 0.922
Frequency: 60 Hz
Current THD: 14.3 %



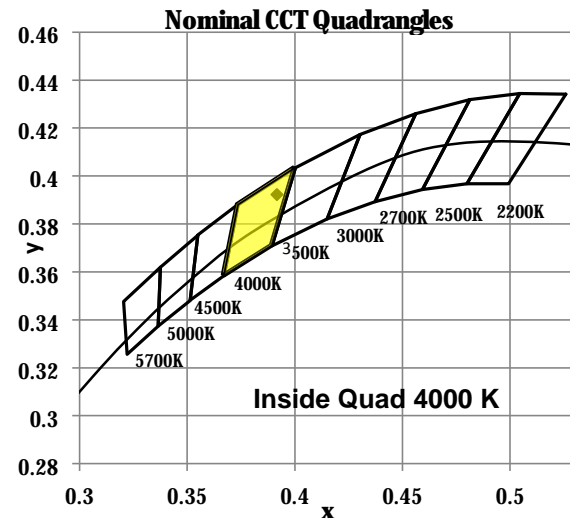
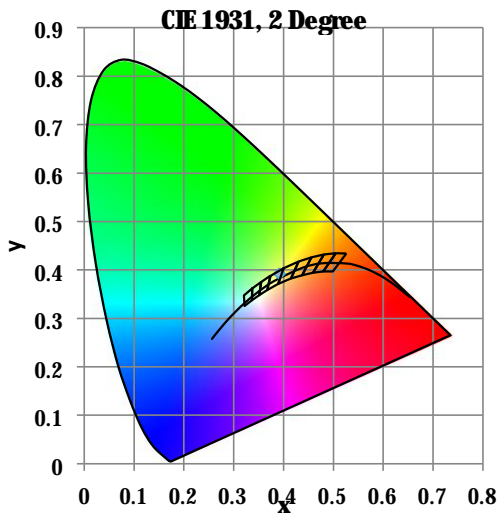
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power	Frequency	Current THD
25.5 °C	120.0 VAC	0.2372 A	28.34 W	0.995	60 Hz	3.70 %

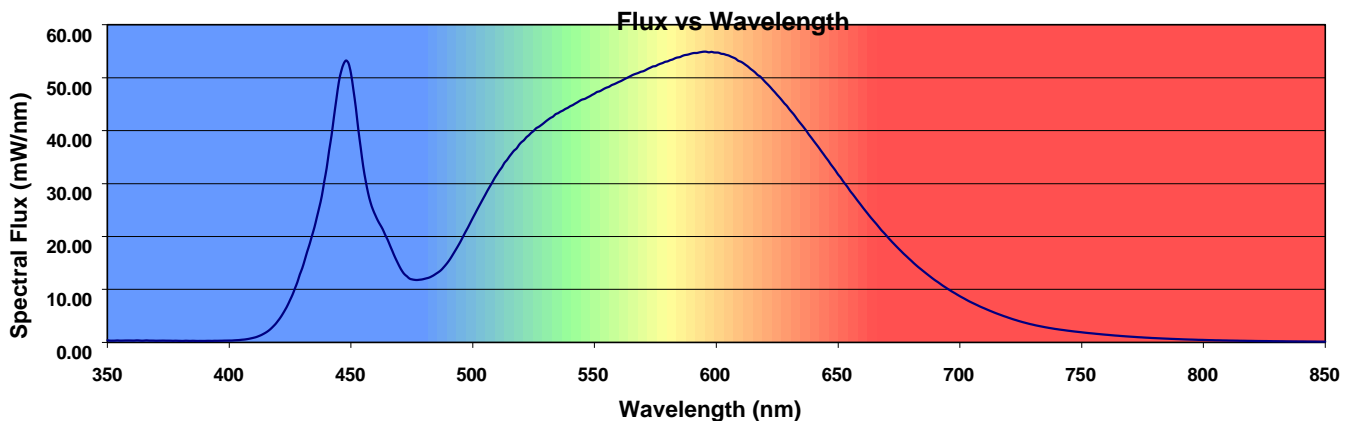
Summary of Results

Total Output:	3250 Lumens	Chromaticity (x):	0.3918
Efficacy:	114.7 lm/w	Chromaticity (y):	0.3922
CCT:	3820 K	Chromaticity (u'):	0.2264
CRI (Ra):	81.0	Chromaticity (v'):	0.5099
CRI (R9):	9.2	TM-30 R _f :	81.2
Peak Wavelength:	595.1 nm	TM-30 R _g :	97.2
Dominant Wavelength:	578 nm	Duv:	0.0036
S/P Ratio:	1.564		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.0	79.2	85.0	90.1	81.8	78.8	79.6	87.2	66.1	9.2	64.6	80.2	58.3	80.0	94.2





Distribution - Goniophotometer

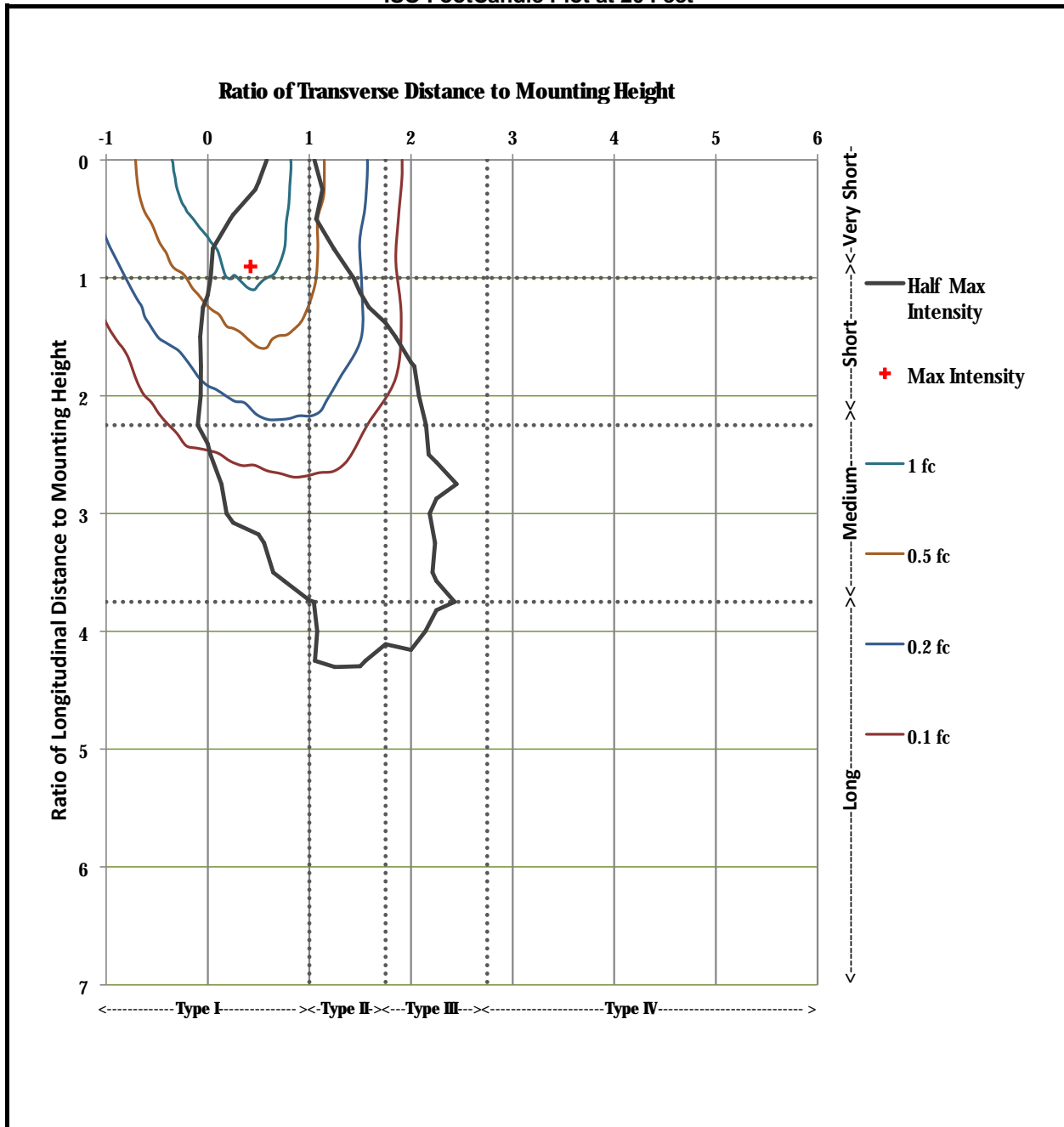
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power	Frequency	Current THD
25.2 °C	120.0 VAC	0.2375 A	28.37 W	0.996	60 Hz	3.69 %

Summary of Results

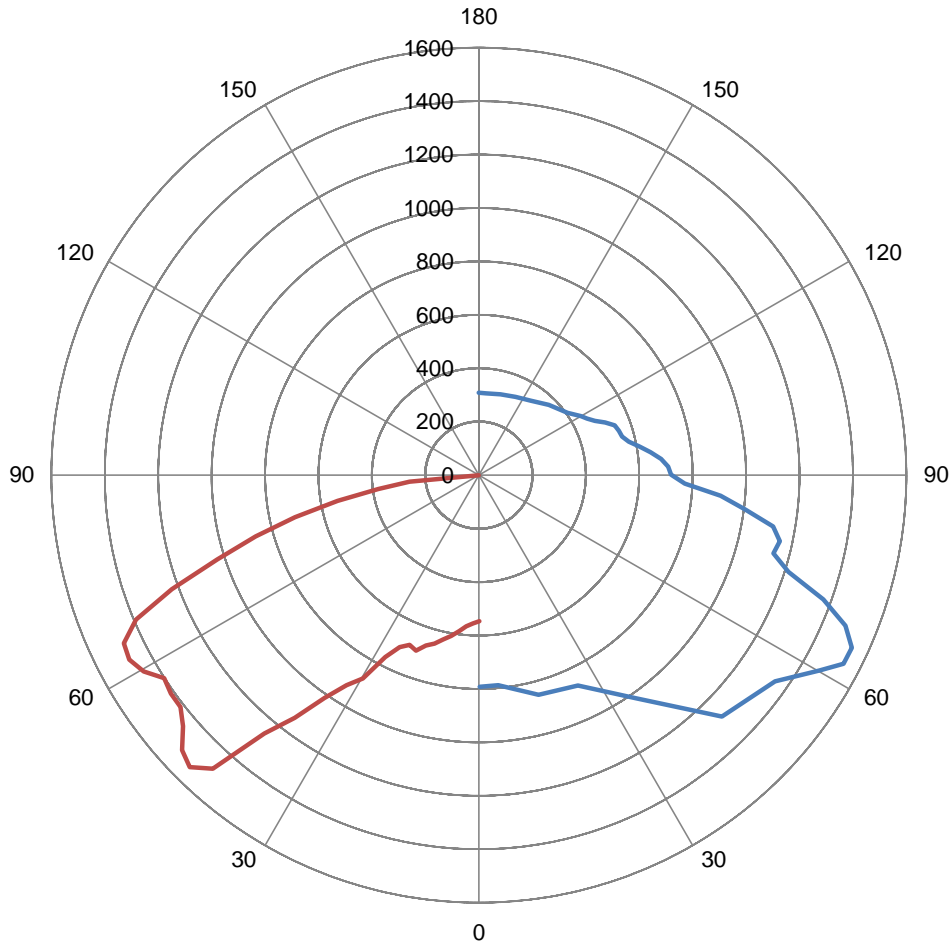
IES Roadway Classification:	Type II, Very Short	Total Lumen Output:	3218 Lumens
Cutoff Classification:	Semicutoff	Luminaire Efficacy:	113.5 lm/w
BUG Rating:	B1 U0 G1	Maximum Candela:	1538 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

65 ° Lateral

Lateral Cone Through

45 ° Vertical

Maximum Intensity (Candlepower):

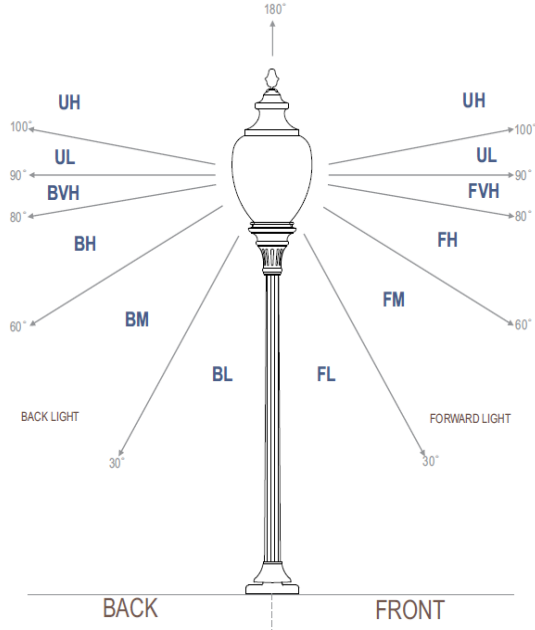
1538 Candela

Zonal Lumen Summary

Zone	Lumens	% of	Zone	Lumens	% of	Zone	Lumens	% of
0-5	13.9	0.4%	60-65	300.6	9.3%	120-125	0.0	0.0%
5-10	39.8	1.2%	65-70	275.4	8.6%	125-130	0.0	0.0%
10-15	67.7	2.1%	70-75	227.7	7.1%	130-135	0.0	0.0%
15-20	97.7	3.0%	75-80	165.2	5.1%	135-140	0.0	0.0%
20-25	127.3	4.0%	80-85	90.6	2.8%	140-145	0.0	0.0%
25-30	159.4	5.0%	85-90	13.2	0.4%	145-150	0.0	0.0%
30-35	198.9	6.2%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	242.6	7.5%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	279.4	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	300.1	9.3%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	309.1	9.6%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	310.0	9.6%	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)	289.1	9.0%
FM	(30-60)	1162.3	36.1%
FH	(60-80)	697.1	21.7%
FVH	(80-90)	72.1	2.2%
BL	(0-30)	216.7	6.7%
BM	(30-60)	477.8	14.8%
BH	(60-80)	271.8	8.4%
BVH	(80-90)	31.6	1.0%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		3218.4	100.0%
BUG Rating		B1 U0 G1	