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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-HT-3ME-3L-30K7-UL-xxxx w/RSWS-BLSS

Order Number

11675461

Test Number

11675461.01

Test Date

2017-03-16

Prepared By

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Approved By

Edward Bush, Project Handler

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: 3214 Lumens
Efficacy: 112.8 lm/w
CCT: 2964 K
CRI (Ra): 72.0

Distribution

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

Electrical Data at 277 VAC

Test Temperature: 24.7 °C
Voltage: 277.1 VAC
Current: 0.1153 A
Power: 29.45 W
Power Factor: 0.922
Frequency: 60 Hz
Current THD: 14.2 %



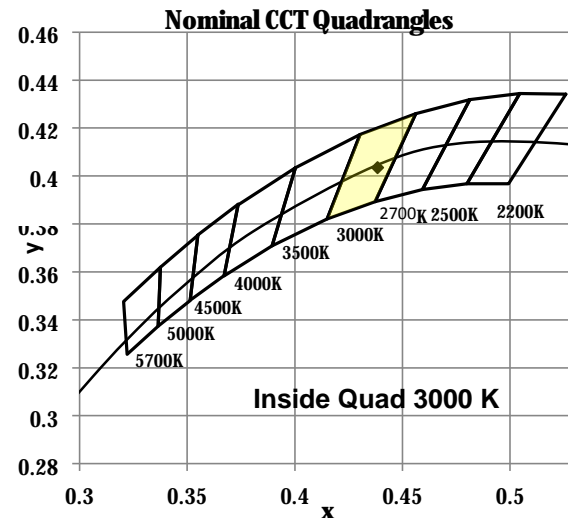
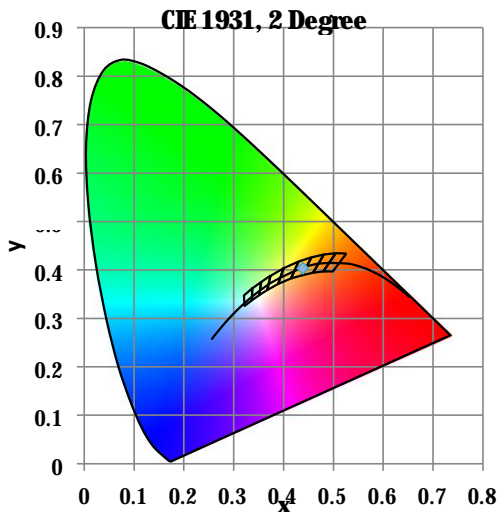
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power	Frequency	Current THD
24.9 °C	120.0 VAC	0.2387 A	28.50 W	0.995	60 Hz	3.82 %

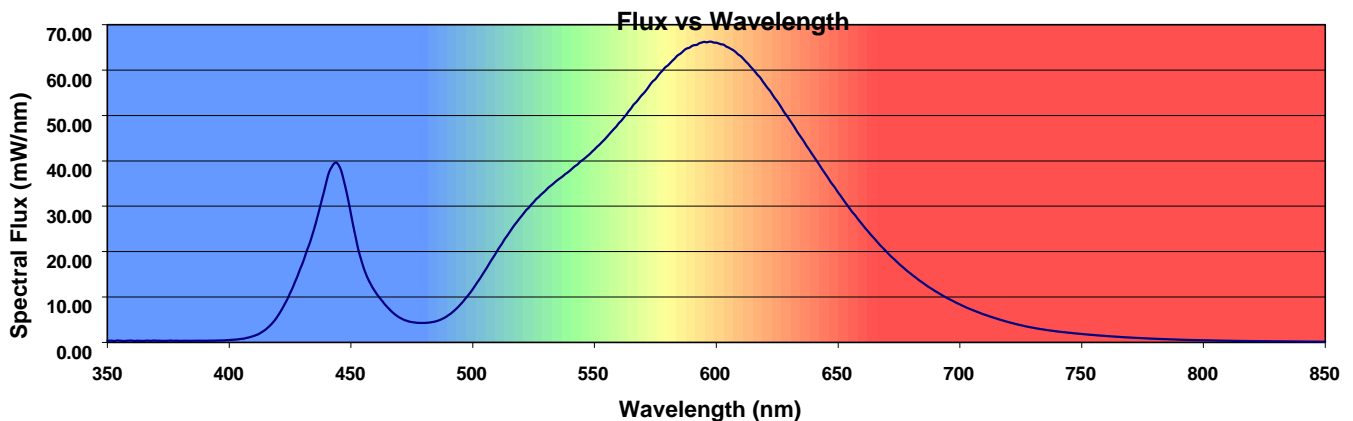
Summary of Results

Total Output:	3214 Lumens	Chromaticity (x):	0.4386
Efficacy:	112.8 lm/w	Chromaticity (y):	0.4034
CCT:	2964 K	Chromaticity (u'):	0.2520
CRI (Ra):	72.0	Chromaticity (v'):	0.5214
CRI (R9):	-26.2	TM-30 R_r:	68.9
Peak Wavelength:	597.5 nm	TM-30 R_g:	97.3
Dominant Wavelength:	583.1 nm	Duv:	-0.0007
S/P Ratio:	1.165		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72.0	69.2	80.4	90.6	70.0	67.9	72.8	78.4	46.9	-26.2	54.8	65.8	48.5	70.8	94.3





Distribution - Goniophotometer

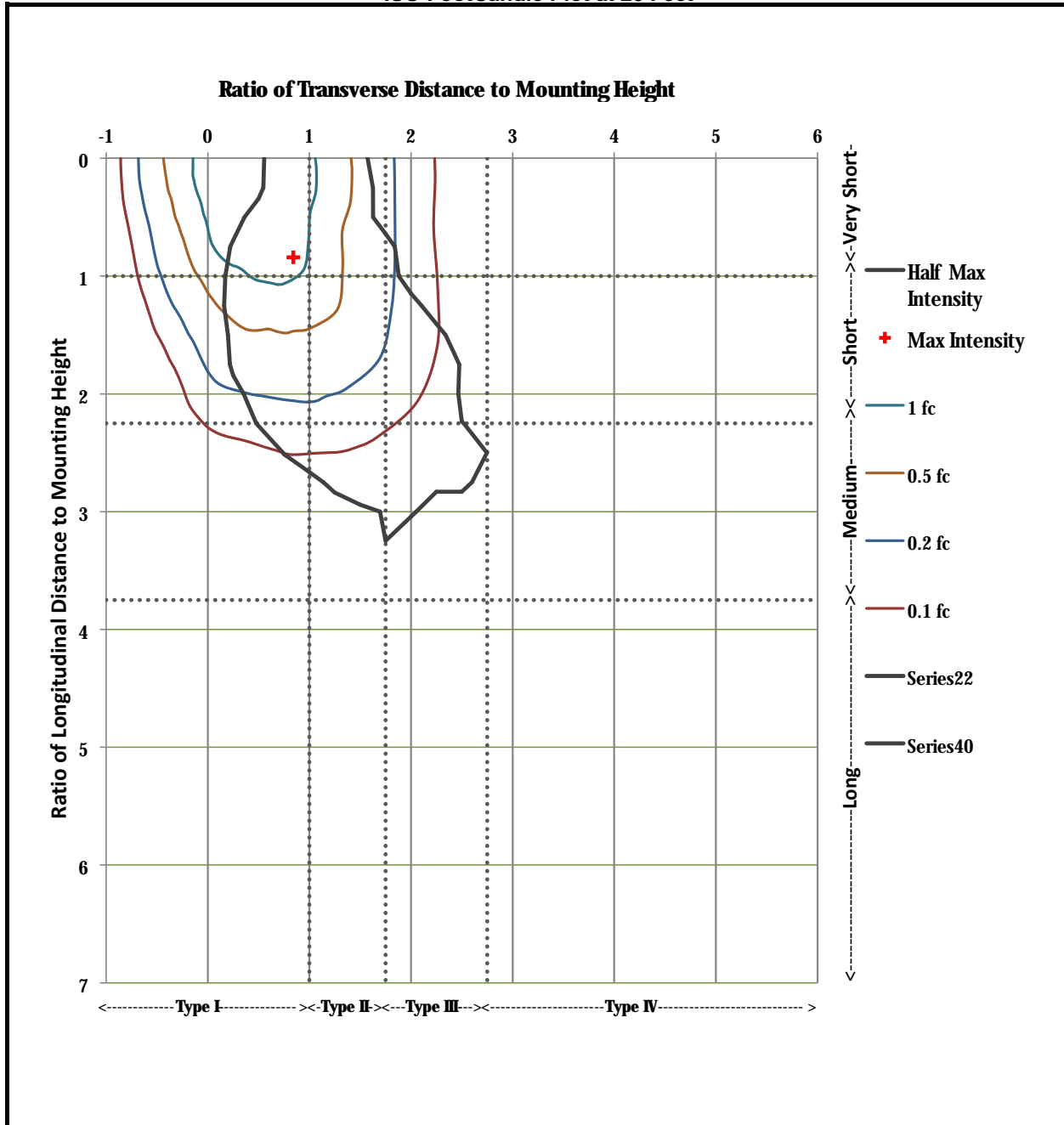
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power	Frequency	Current THD
25.4 °C	120.0 VAC	0.2387 A	28.50 W	0.995	60 Hz	3.71 %

Summary of Results

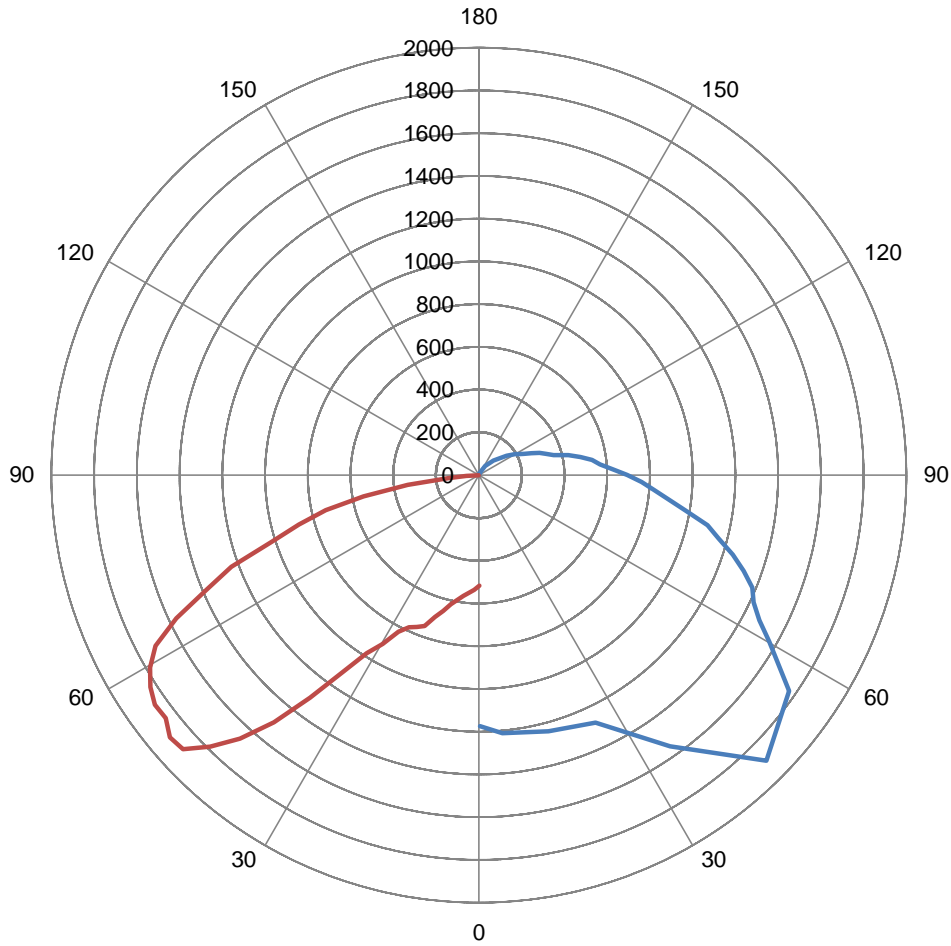
IES Roadway Classification:	Type III, Very Short	Total Lumen Output:	3113 Lumens
Cutoff Classification:	Semicutoff	Luminaire Efficacy:	109.2 lm/w
BUG Rating:	B1 U0 G1	Maximum Candela:	1897 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

45 ° Lateral

Lateral Cone Through

50 ° Vertical

Maximum Intensity (Candlepower):

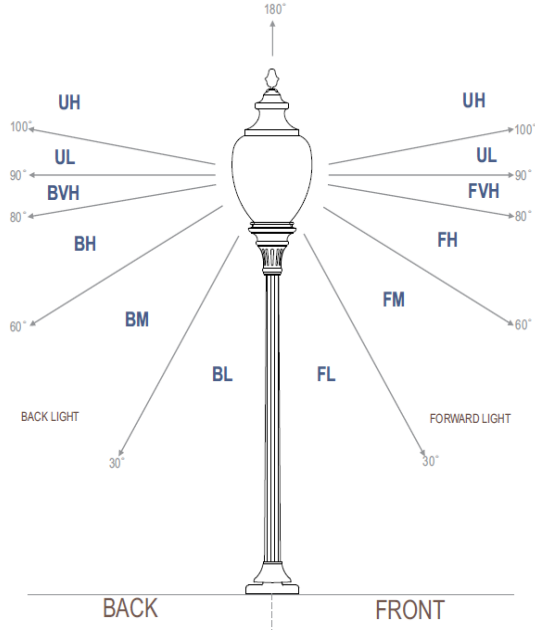
1897 Candela

Zonal Lumen Summary

Zone	Lumens	% of	Zone	Lumens	% of	Zone	Lumens	% of
0-5	13.0	0.4%	60-65	300.4	9.7%	120-125	0.0	0.0%
5-10	36.6	1.2%	65-70	259.8	8.3%	125-130	0.0	0.0%
10-15	61.3	2.0%	70-75	203.0	6.5%	130-135	0.0	0.0%
15-20	86.8	2.8%	75-80	141.9	4.6%	135-140	0.0	0.0%
20-25	113.9	3.7%	80-85	66.2	2.1%	140-145	0.0	0.0%
25-30	145.3	4.7%	85-90	14.5	0.5%	145-150	0.0	0.0%
30-35	187.9	6.0%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	239.9	7.7%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	283.3	9.1%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	313.7	10.1%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	325.7	10.5%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	319.4	10.3%	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)	300.6	9.7%
FM	(30-60)	1443.1	46.4%
FH	(60-80)	822.2	26.4%
FVH	(80-90)	72.7	2.3%
BL	(0-30)	156.2	5.0%
BM	(30-60)	226.9	7.3%
BH	(60-80)	82.8	2.7%
BVH	(80-90)	8.0	0.3%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		3112.5	100.0%
BUG Rating		B1 U0 G1	