



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



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

Vasavi Mandavilli
4600 Silicon Drive
Durham, NC 27519
United States

Catalog Number

RSWS-A-HT-2ME-5L-30K7-UL-xxxx

Order Number

11644102

Test Number

11644102.07

Test Date

2017-03-02

Prepared By

Javier Caban, Technician

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 3-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: LEA03060X0020

Luminaire



Luminaire Characteristics

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

Summary of Results

Integrating Sphere

Luminous Flux: 5000 Lumens
Efficacy: 107.8 lm/w
CCT: 2950 K
CRI (Ra): 71.7

Distribution

Roadway Classification:
Cutoff Classification:
BUG Rating:

Type III, Short
Semicutoff
B1 U0 G2

Electrical Data at 277 VAC

Test Temperature: 25.4 °C
Voltage: 277.0 VAC
Current: 0.1816 A
Power: 46.96 W
Power Factor: 0.934
Frequency: 60 Hz
Current THD: 8.03 %



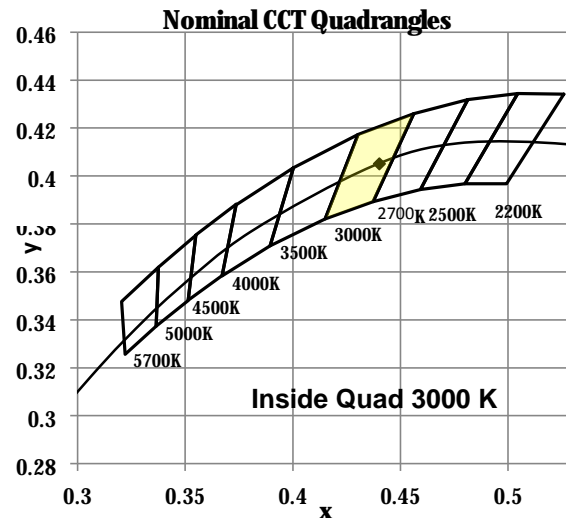
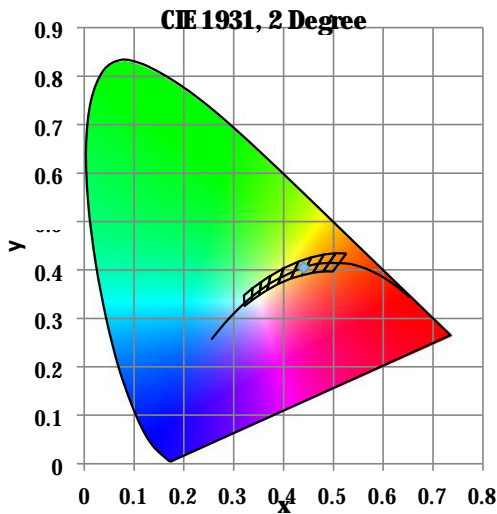
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power	Frequency	Current THD
24.8 °C	119.9 VAC	0.3900 A	46.40 W	0.992	60 Hz	3.61 %

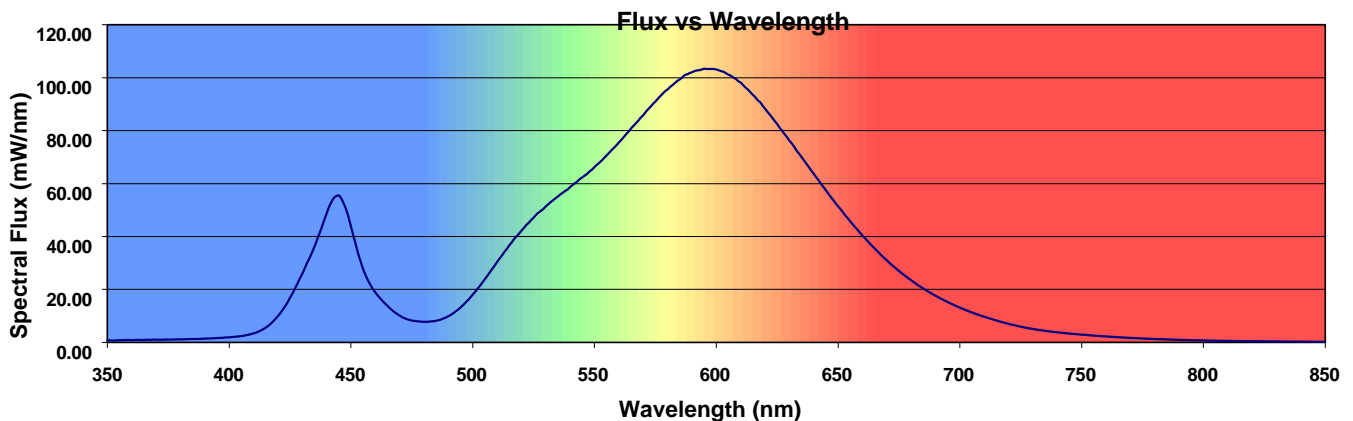
Summary of Results

Total Output:	5000 Lumens	Chromaticity (x):	0.4403
Efficacy:	107.8 lm/w	Chromaticity (y):	0.4050
CCT:	2950 K	Chromaticity (u'):	0.2523
CRI (Ra):	71.7	Chromaticity (v'):	0.5222
CRI (R9):	-27.8	TM-30 R _f :	69.3
Peak Wavelength:	596 nm	TM-30 R _g :	96.6
Dominant Wavelength:	583.1 nm	Duv:	0.0003
S/P Ratio:	1.159		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
71.7	68.6	80.5	91.1	69.2	67.3	72.8	78.4	46.0	-27.8	54.9	64.3	48.5	70.3	94.6





Distribution - Goniophotometer

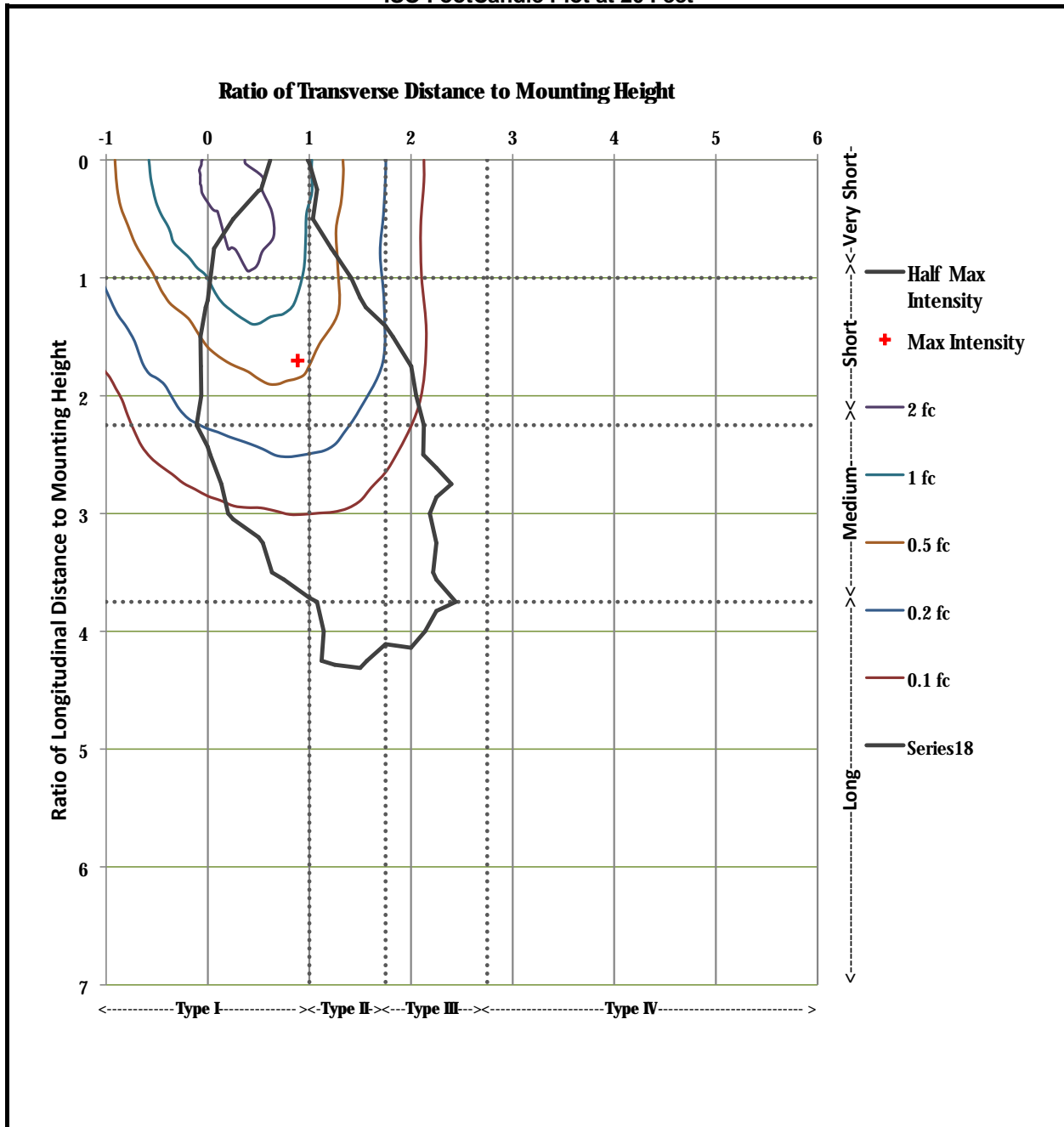
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power	Frequency	Current THD
25.7 °C	120.0 VAC	0.3883 A	46.42 W	0.996	60 Hz	3.68 %

Summary of Results

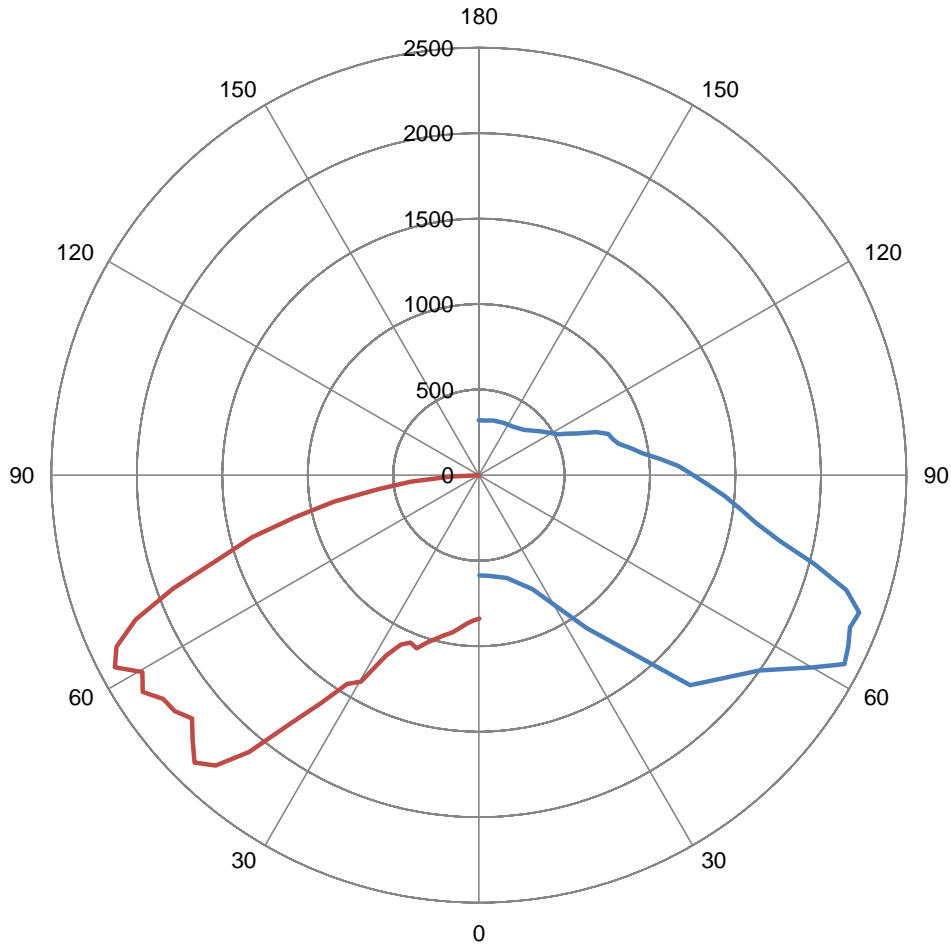
IES Roadway Classification:	Type III, Short	Total Lumen Output:	4975 Lumens
Cutoff Classification:	Semicutoff	Luminaire Efficacy:	107.2 lm/w
BUG Rating:	B1 U0 G2	Maximum Candela:	2406 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

62.5 ° Lateral

Lateral Cone Through

62.5 ° Vertical

Maximum Intensity (Candlepower):

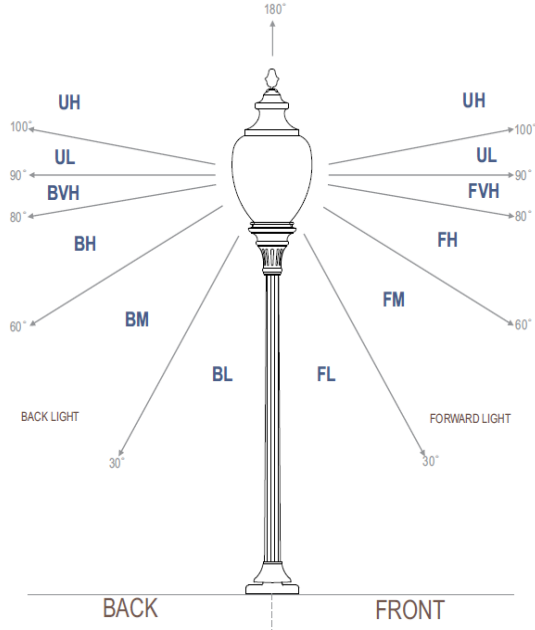
2406 Candela

Zonal Lumen Summary

Zone	Lumens	% of	Zone	Lumens	% of	Zone	Lumens	% of
0-5	21.3	0.4%	60-65	466.8	9.4%	120-125	0.0	0.0%
5-10	60.9	1.2%	65-70	426.9	8.6%	125-130	0.0	0.0%
10-15	103.5	2.1%	70-75	351.4	7.1%	130-135	0.0	0.0%
15-20	149.4	3.0%	75-80	254.2	5.1%	135-140	0.0	0.0%
20-25	194.3	3.9%	80-85	138.3	2.8%	140-145	0.0	0.0%
25-30	243.3	4.9%	85-90	35.5	0.7%	145-150	0.0	0.0%
30-35	304.8	6.1%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	373.5	7.5%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	431.8	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	463.2	9.3%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	476.7	9.6%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	479.1	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)	441.4	8.9%
FM	(30-60)	1795.1	36.1%
FH	(60-80)	1078.3	21.7%
FVH	(80-90)	118.1	2.4%
BL	(0-30)	331.2	6.7%
BM	(30-60)	734.0	14.8%
BH	(60-80)	421.0	8.5%
BVH	(80-90)	55.8	1.1%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		4974.8	100.0%
BUG Rating		B1 U0 G2	