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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 C78.377-2017, IES TM-30-2015

Prepared For
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Catalog Number
AX-100-27-5-C-BH

Order Number
12652884
Test Number
12652884.01

Test Date

2018-12-27

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

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

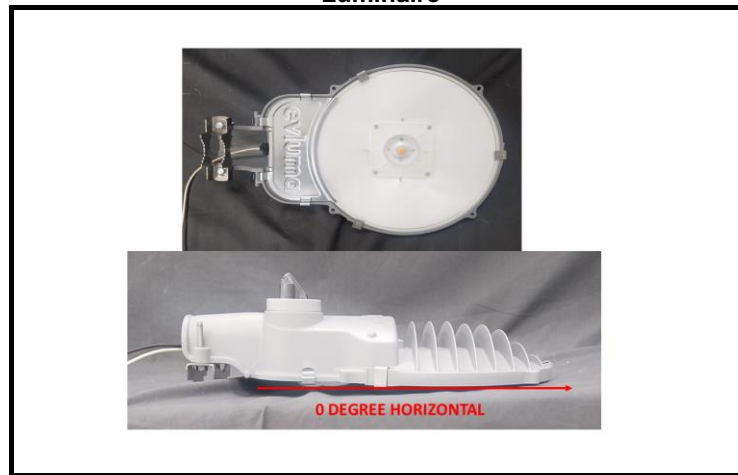
Absorption correction was employed for Sphere measurement

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: Gray metal housing, white plastic reflector and cutoff glass lens
Lamp: One (1) white LED with optic below
Mounting: Pole/Arm

Luminaire



Luminaire Characteristics

Luminous Diameter: 11.00 in.

Summary of Results

Integrating Sphere

Luminous Flux: 10220 Lumens
Efficacy: 104.71 lm/w
CCT: 2848 K
CRI (Ra): 81.4

Distribution

Roadway Classification: Type VS, Short
Cutoff Classification: Full Cutoff
BUG Rating: B3 U0 G1

Electrical Data at 277 VAC

Test Temperature: 25.7 °C
Voltage: 277.1 VAC
Current: 0.3601 A
Power: 97.60 W
Power Factor: 0.978
Frequency: 60 Hz
Current THD: 13.4 %



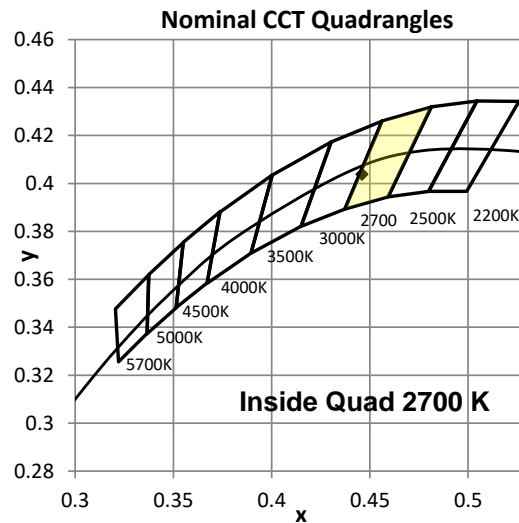
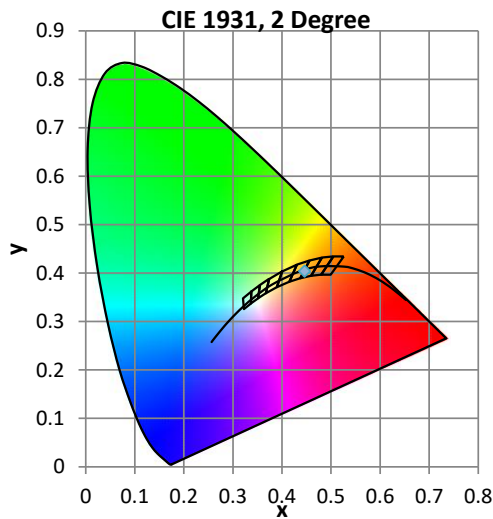
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	277.1 VAC	0.3601 A	97.60 W	0.978	60 Hz	13.4 %

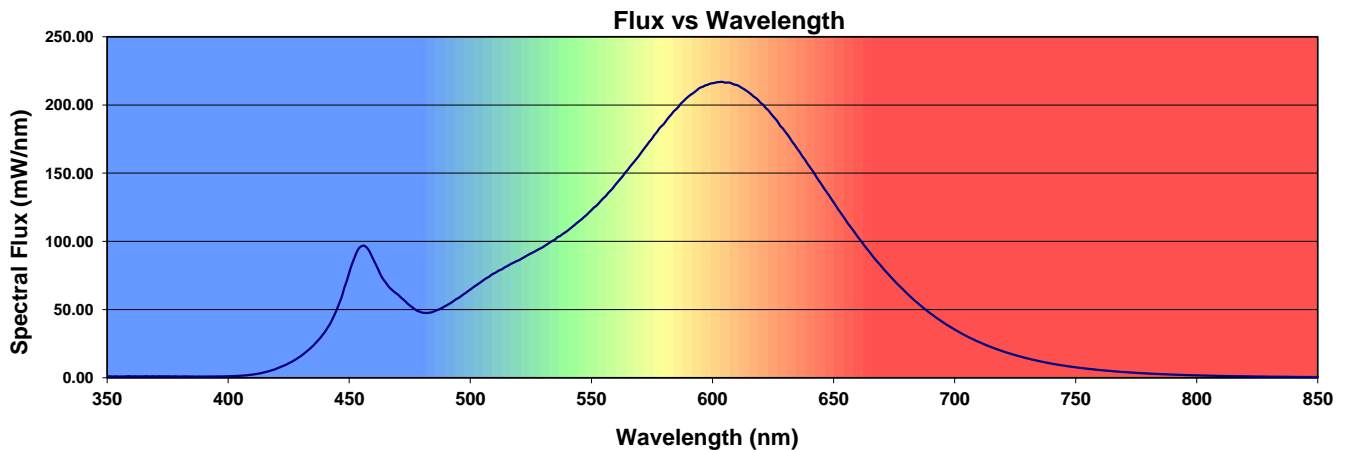
Summary of Results

Total Output:	10220 Lumens	Chromaticity (x):	0.4460
Efficacy:	104.7 lm/w	Chromaticity (y):	0.4038
CCT:	2848 K	Chromaticity (u'):	0.2566
CRI (Ra):	81.4	Chromaticity (v'):	0.5226
CRI (R9):	4.4	TM-30 Rf:	82.4
Peak Wavelength:	603 nm	TM-30 Rg:	94
Dominant Wavelength:	584 nm	Duv:	-0.0013
S/P Ratio:	1.3		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.4	80.2	92.6	93.1	77.5	80.7	91.5	79.9	55.6	4.4	83.4	76.1	76.1	83.3	96.9	72.7





Distribution - Goniophotometer

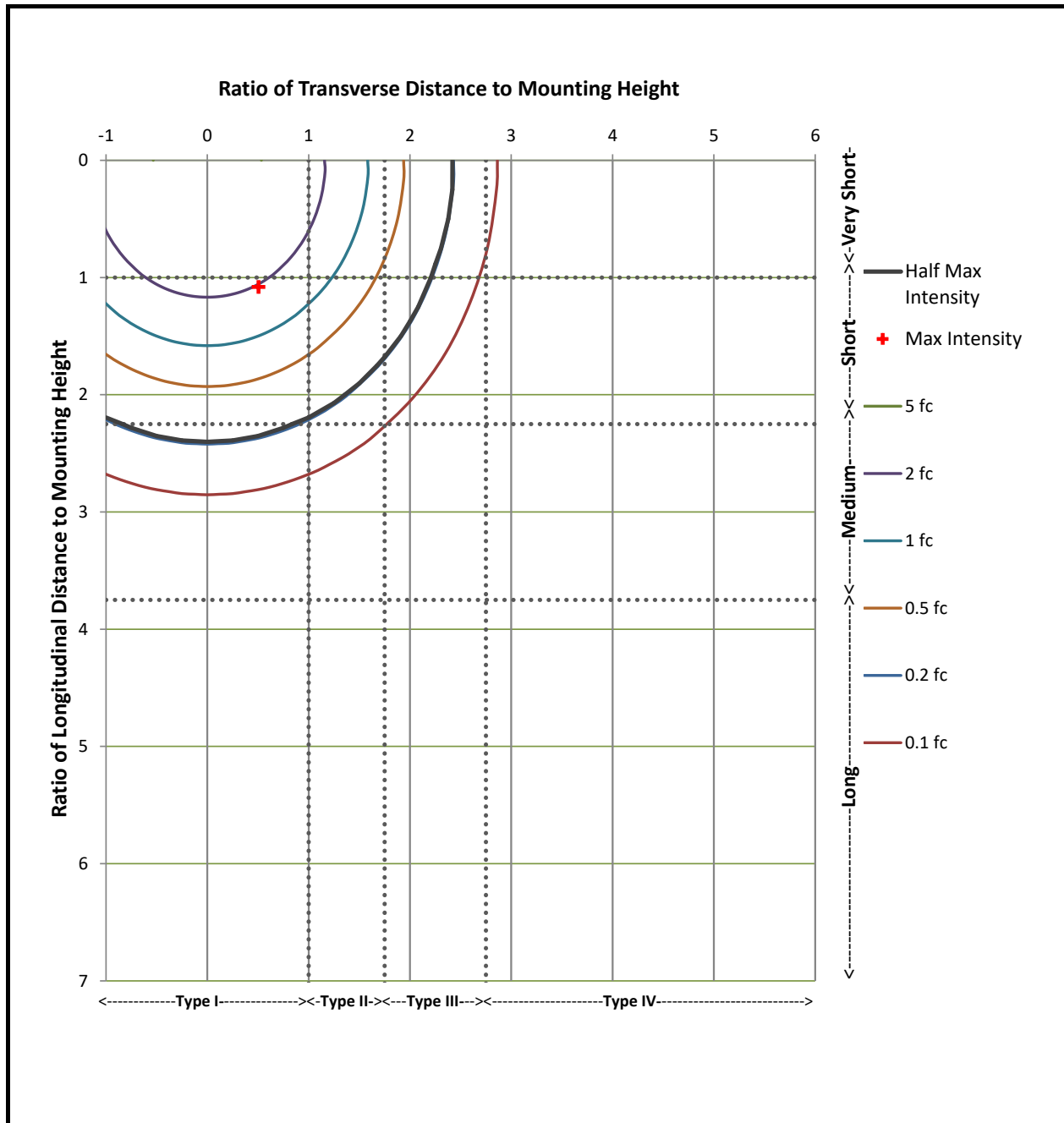
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	277.1 VAC	0.3606 A	97.79 W	0.979	60 Hz	13.4 %

Summary of Results

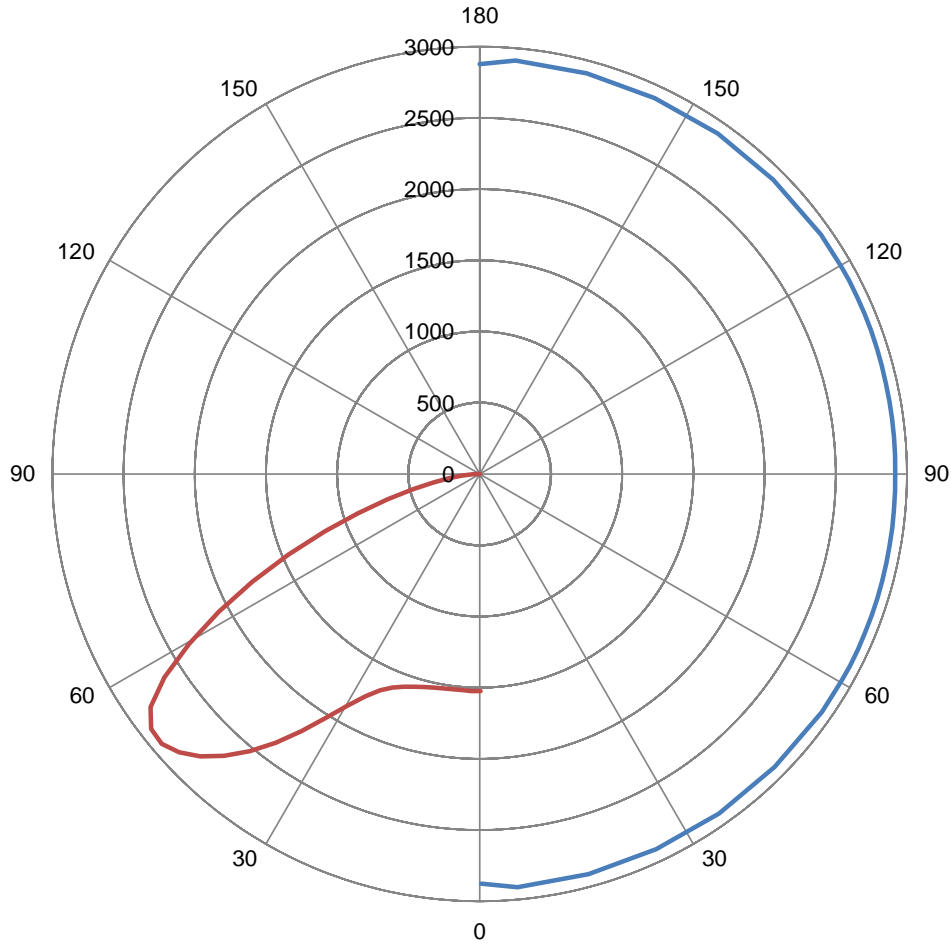
IES Roadway Classification:	Type VS, Short	Total Lumen Output:	10011 Lumens
Cutoff Classification	Full Cutoff	Luminaire Efficacy:	102.4 lm/w
BUG Rating:	B3 U0 G1	Maximum Candela:	2928 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

65 ° Lateral

Lateral Cone Through

50 ° Vertical

Maximum Intensity (Candlepower):

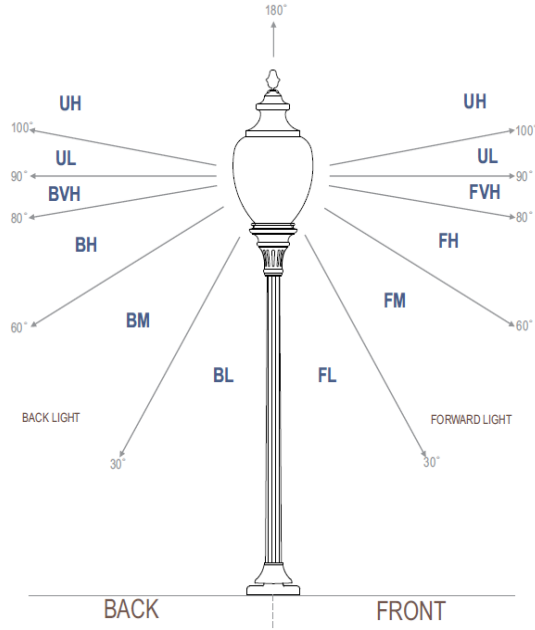
2928 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	38.7	0.4%	60-65	1011.6	10.1%	120-125	0.0	0.0%
5-10	108.9	1.1%	65-70	741.4	7.4%	125-130	0.0	0.0%
10-15	182.1	1.8%	70-75	474.3	4.7%	130-135	0.0	0.0%
15-20	258.0	2.6%	75-80	264.0	2.6%	135-140	0.0	0.0%
20-25	340.8	3.4%	80-85	119.9	1.2%	140-145	0.0	0.0%
25-30	446.4	4.5%	85-90	32.2	0.3%	145-150	0.0	0.0%
30-35	596.4	6.0%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	785.7	7.8%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	982.7	9.8%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	1154.4	11.5%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	1258.9	12.6%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	1214.1	12.1%	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)	687.5	6.9%
FM	(30-60)	2996.1	29.9%
FH	(60-80)	1245.7	12.4%
FVH	(80-90)	76.0	0.8%
BL	(0-30)	687.5	6.9%
BM	(30-60)	2996.1	29.9%
BH	(60-80)	1245.7	12.4%
BVH	(80-90)	76.0	0.8%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		10010.5	100.0%
BUG Rating		B3 U0 G1	