

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533474

Luminaire Tested: **GALN-SA8D-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43815 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

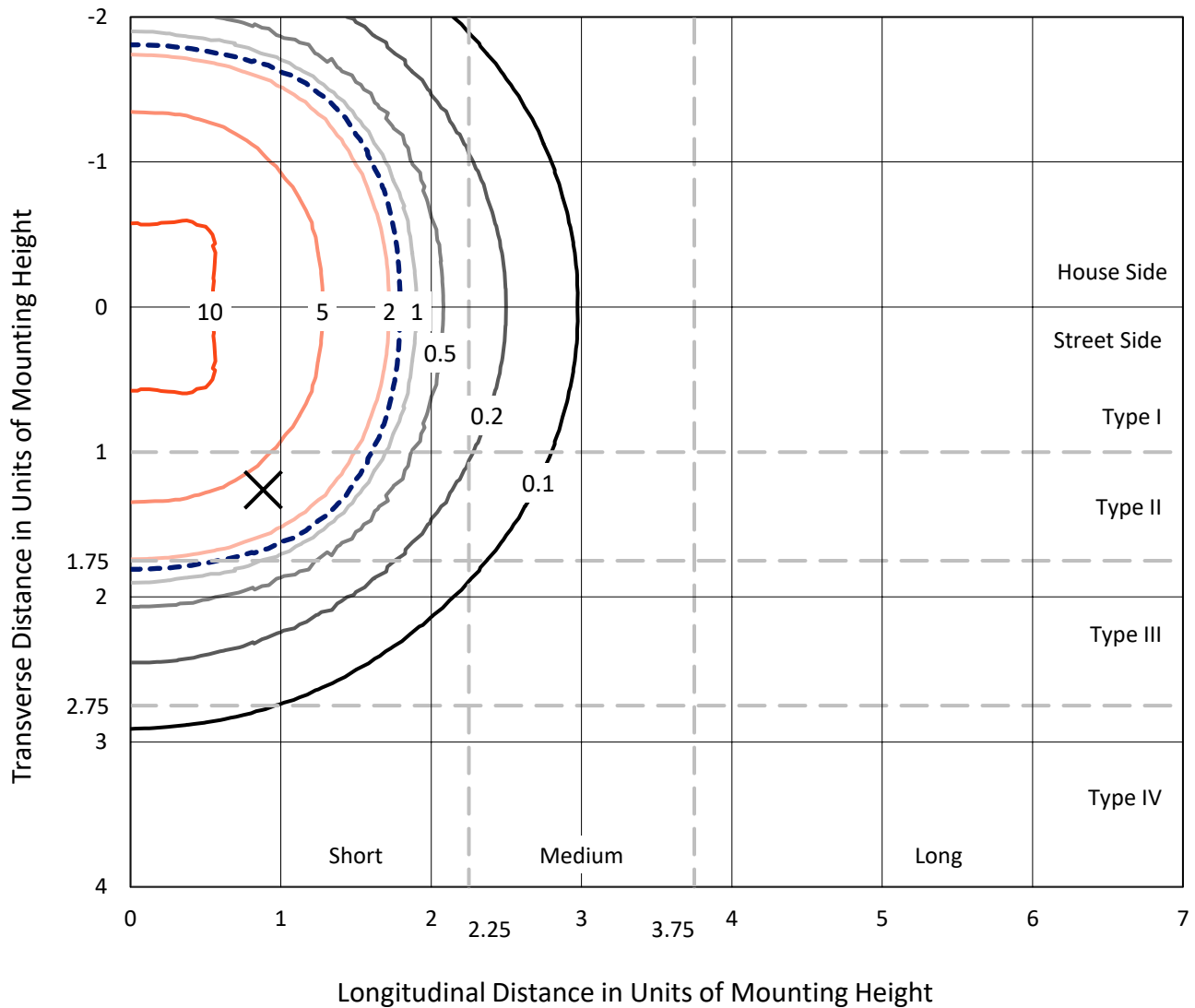


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

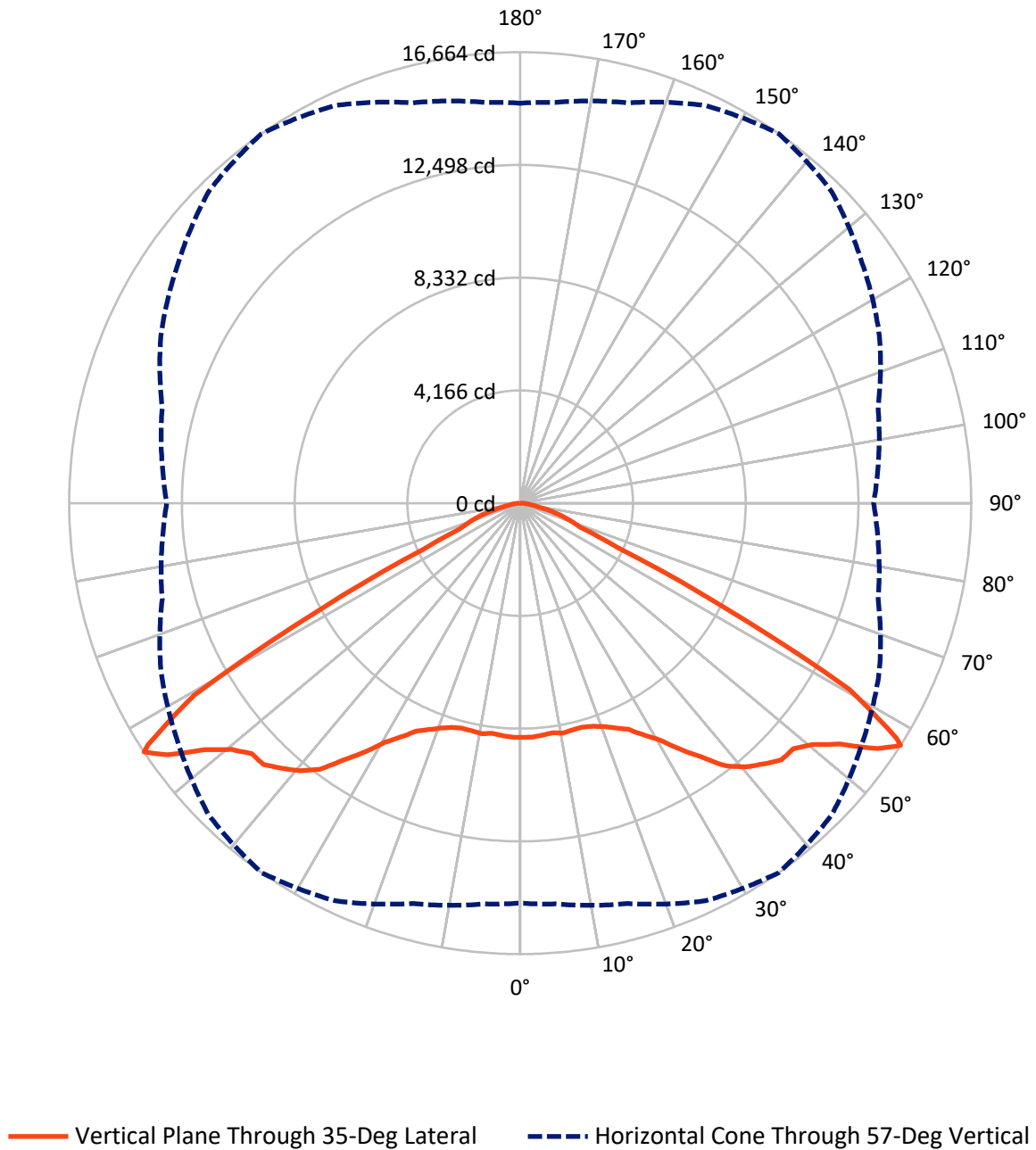


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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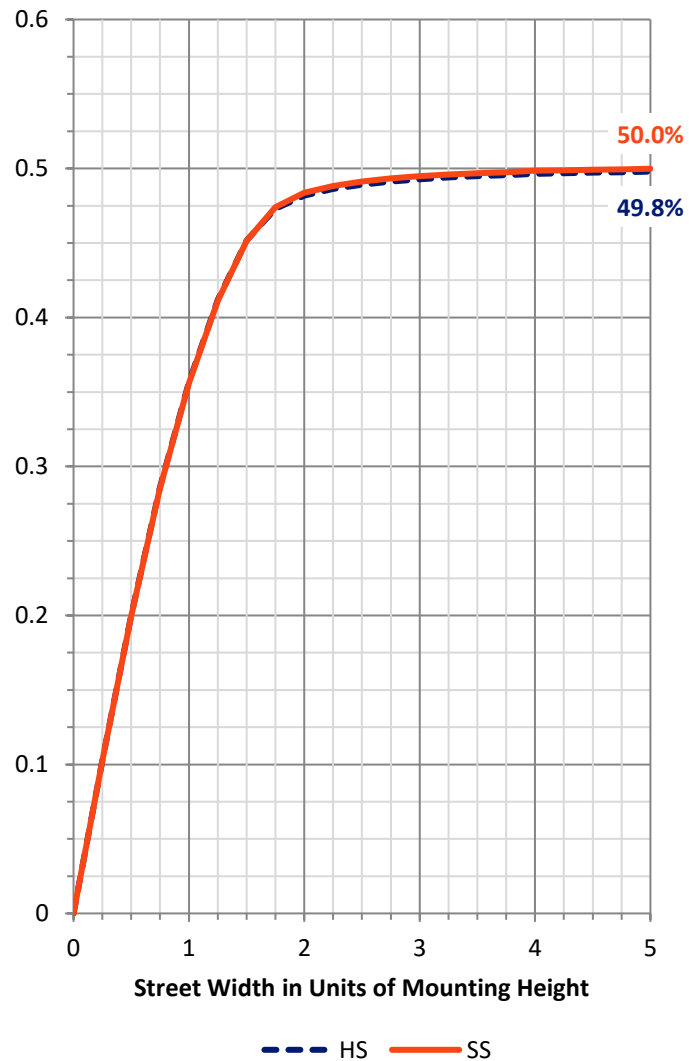
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21907.5	0.0	21907.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21907.5	0.0	21907.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43815.0	0.0	43815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.3	1.9
10°-20°	2429.6	5.5
20°-30°	4243.3	9.7
30°-40°	6952.8	15.9
40°-50°	10194.5	23.3
50°-60°	12840.8	29.3
60°-70°	4829.3	11.0
70°-80°	1284.1	2.9
80°-90°	220.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	43815.0	100.0
0°-180°	43815.0	100.0

Coefficient of Utilization



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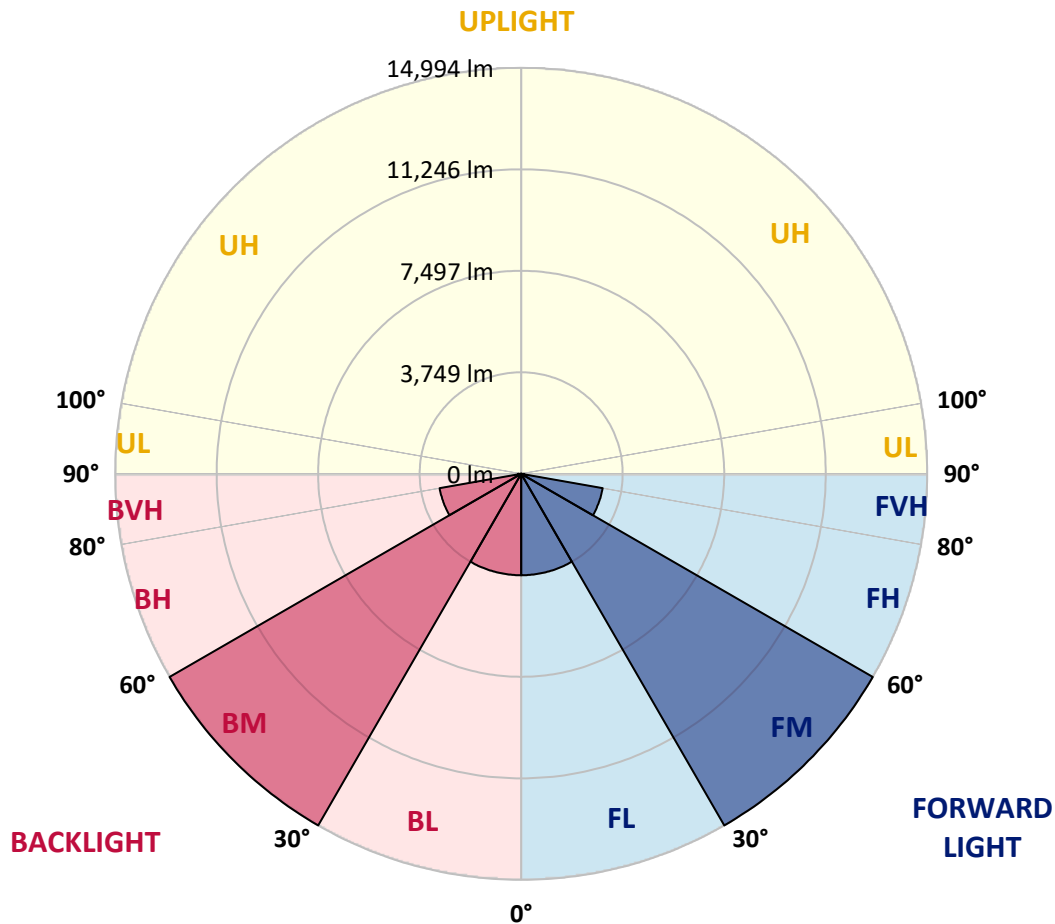
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3746.7	8.6			
FM	(30°-60°)	14994.1	34.2			
FH	(60°-80°)	3056.7	7.0			G2/5000
FVH	(80°-90°)	110.1	0.3			G2/225
BL	(0°-30°)	3746.7	8.6	B4/5000		
BM	(30°-60°)	14994.1	34.2	B5		
BH	(60°-80°)	3056.7	7.0	B4/5000		G2/5000
BVH	(80°-90°)	110.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8653.1	8653.1	8653.1	8653.1	8653.1	8653.1	8653.1	8653.1	8653.1	8653.1	8653.1
2.5°	8610.0	8696.3	8658.5	8636.9	8653.1	8626.1	8583.0	8631.5	8620.8	8577.6	8561.4
5°	8588.4	8653.1	8610.0	8653.1	8610.0	8685.5	8663.9	8583.0	8680.1	8588.4	8620.8
7.5°	8572.2	8593.8	8604.6	8583.0	8566.8	8658.5	8610.0	8572.2	8518.2	8502.0	8529.0
10°	8534.4	8588.4	8507.4	8615.4	8636.9	8572.2	8572.2	8502.0	8458.8	8431.8	8523.6
12.5°	8631.5	8539.8	8529.0	8583.0	8599.2	8626.1	8550.6	8512.8	8431.8	8442.6	8426.4
15°	8518.2	8556.0	8561.4	8572.2	8588.4	8653.1	8583.0	8502.0	8469.6	8356.2	8367.0
17.5°	8561.4	8523.6	8561.4	8685.5	8663.9	8712.5	8636.9	8512.8	8437.2	8372.4	8458.8
20°	8636.9	8620.8	8636.9	8788.1	8815.1	8858.3	8793.5	8680.1	8534.4	8458.8	8502.0
22.5°	8717.9	8707.1	8717.9	8863.7	9020.2	9074.2	9009.4	8744.9	8669.3	8529.0	8480.4
25°	8863.7	8874.5	8987.8	9149.8	9252.3	9354.9	9236.1	9047.2	8804.3	8717.9	8615.4
27.5°	9187.6	9214.5	9279.3	9516.8	9695.0	9786.7	9619.4	9360.3	9209.1	9031.0	9004.0
30°	9587.0	9587.0	9700.4	9905.5	10148.4	10288.8	10083.6	9775.9	9592.4	9495.2	9435.9
32.5°	10116.0	10056.6	10099.8	10461.5	10839.4	10958.1	10682.8	10305.0	10013.5	9883.9	9840.7
35°	10569.5	10607.2	10704.4	11093.1	11514.1	11789.4	11357.6	10866.4	10569.5	10450.7	10429.1
37.5°	11157.9	11222.6	11271.2	11805.6	12313.0	12415.6	12000.0	11605.9	11244.2	11147.1	11093.1
40°	11989.2	11946.0	11962.2	12356.2	12815.1	12879.8	12469.6	12188.9	11892.0	11832.6	11832.6
42.5°	12674.7	12626.1	12680.1	12825.9	13176.7	13128.2	12901.4	12696.3	12572.2	12507.4	12572.2
45°	13090.4	13079.6	13176.7	13284.7	13533.0	13371.1	13192.9	13225.3	13106.6	12998.6	12993.2
47.5°	13543.8	13473.6	13592.4	13754.3	13565.4	13489.8	13479.0	13549.2	13511.4	13322.5	13263.1
50°	13765.1	13738.1	13927.1	14116.0	14013.4	13840.7	13878.5	13991.9	13506.0	13252.3	13106.6
52.5°	14358.9	14364.3	14726.0	14828.6	14785.4	14531.7	14612.6	14304.9	13732.7	13376.5	13392.7
55°	15292.8	15255.0	15659.9	15962.2	16010.7	15686.9	15298.2	14866.3	14148.4	13786.7	13678.8
57°	14780.0	14866.3	15314.4	16210.5	16663.9	16280.6	15433.1	14645.0	13689.6	13252.3	13058.0
57.5°	14094.4	14234.8	15012.1	15913.6	16388.6	16356.2	15265.8	14234.8	13381.9	12701.7	12717.9
60°	10326.5	10353.5	11055.3	12485.8	13970.3	14002.6	12674.7	11309.0	10358.9	9619.4	9722.0
62.5°	5446.7	5570.8	5851.5	7001.3	8286.1	8599.2	7794.8	7093.1	6272.6	5711.2	5765.2
65°	2882.6	2866.4	3001.3	3325.2	3956.8	4118.7	4010.8	3454.8	3168.7	3076.9	3082.3
67.5°	2342.8	2369.8	2353.6	2369.8	2412.9	2483.1	2466.9	2488.5	2504.7	2531.7	2526.3
70°	1986.5	1986.5	1997.3	2002.7	2002.7	2035.1	2072.9	2143.0	2148.4	2175.4	2186.2
72.5°	1565.4	1554.7	1570.8	1608.6	1614.0	1641.0	1695.0	1738.2	1754.4	1754.4	1722.0
75°	1063.4	1074.2	1095.8	1128.2	1160.6	1209.2	1252.4	1279.3	1290.1	1273.9	1257.8
77.5°	599.2	610.0	626.2	674.8	712.5	755.7	804.3	831.3	858.3	863.7	831.3
80°	356.3	356.3	383.3	421.1	464.2	507.4	550.6	583.0	593.8	593.8	577.6
82.5°	215.9	221.3	242.9	280.7	318.5	345.5	383.3	410.3	431.8	426.4	415.7
85°	113.4	113.4	135.0	167.3	194.3	221.3	221.3	205.1	194.3	167.3	156.5
87.5°	37.8	32.4	43.2	43.2	37.8	43.2	43.2	48.6	48.6	48.6	48.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)