

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: P533240

Luminaire Tested: **GALN-SA8C-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533240
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-SA8C-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 39819 lumens
Efficiency: N/A
Efficacy: 92.8 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): 429
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

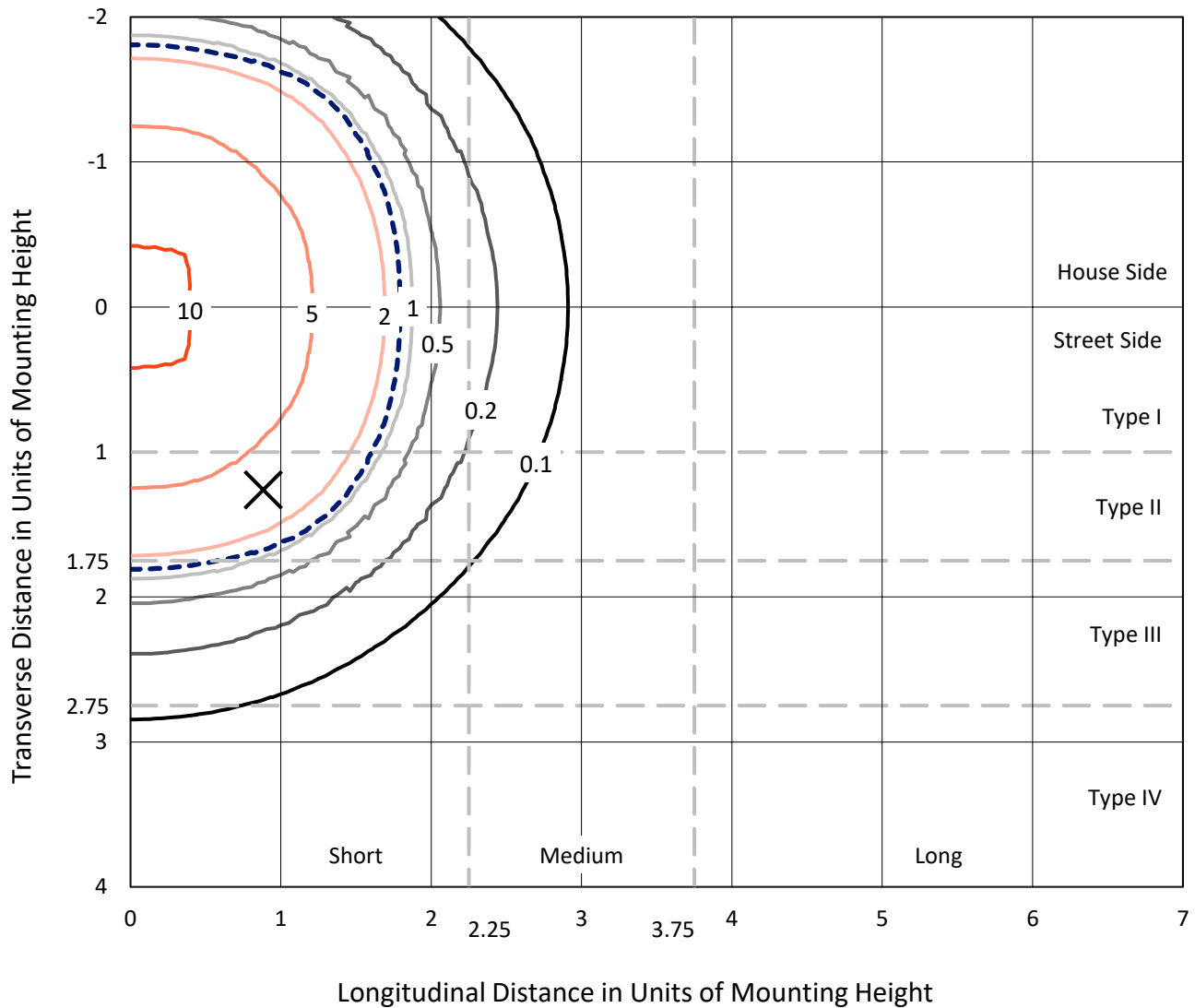


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Iso-Footcandle Lines of Horizontal Illumination

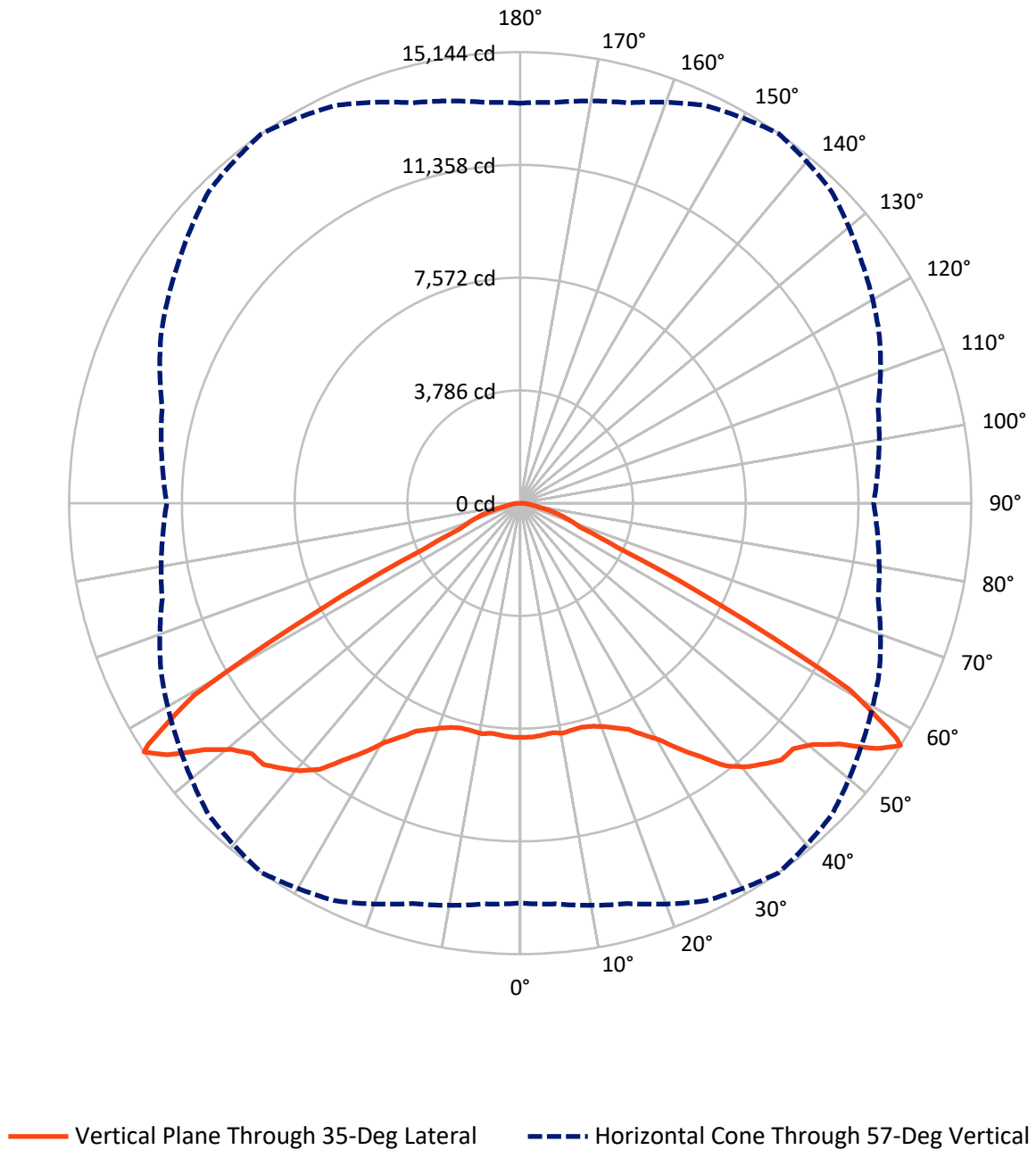
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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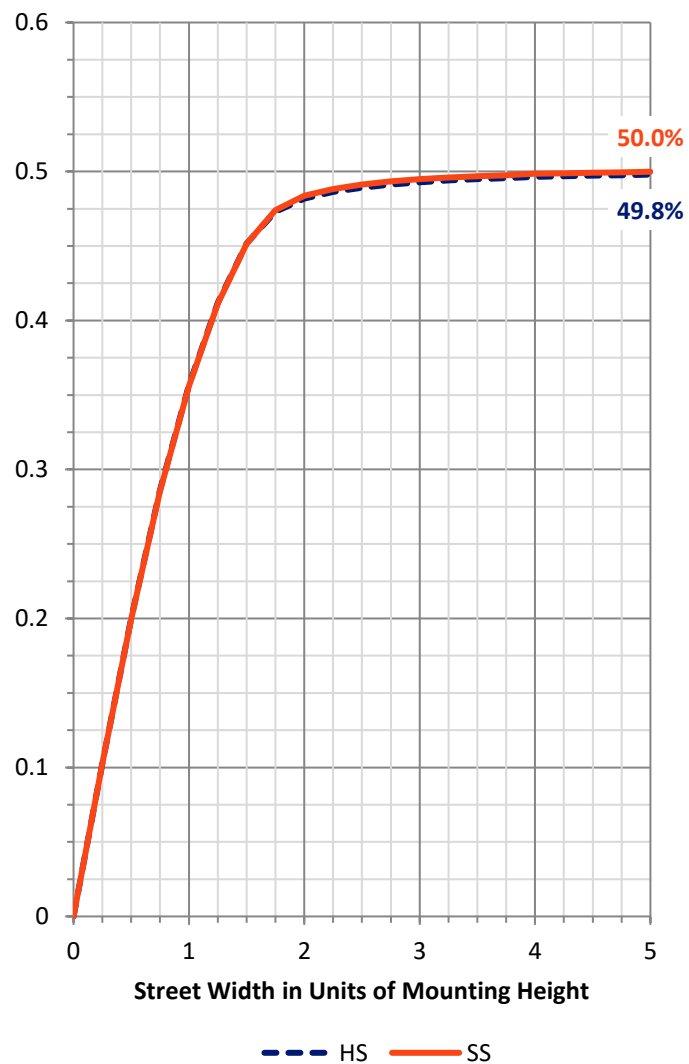
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19909.5	0.0	19909.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19909.5	0.0	19909.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39819.0	0.0	39819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.5	1.9
10°-20°	2208.1	5.5
20°-30°	3856.3	9.7
30°-40°	6318.7	15.9
40°-50°	9264.8	23.3
50°-60°	11669.7	29.3
60°-70°	4388.9	11.0
70°-80°	1167.0	2.9
80°-90°	200.1	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°	39819.0	100.0
0°-180°	39819.0	100.0

Coefficient of Utilization



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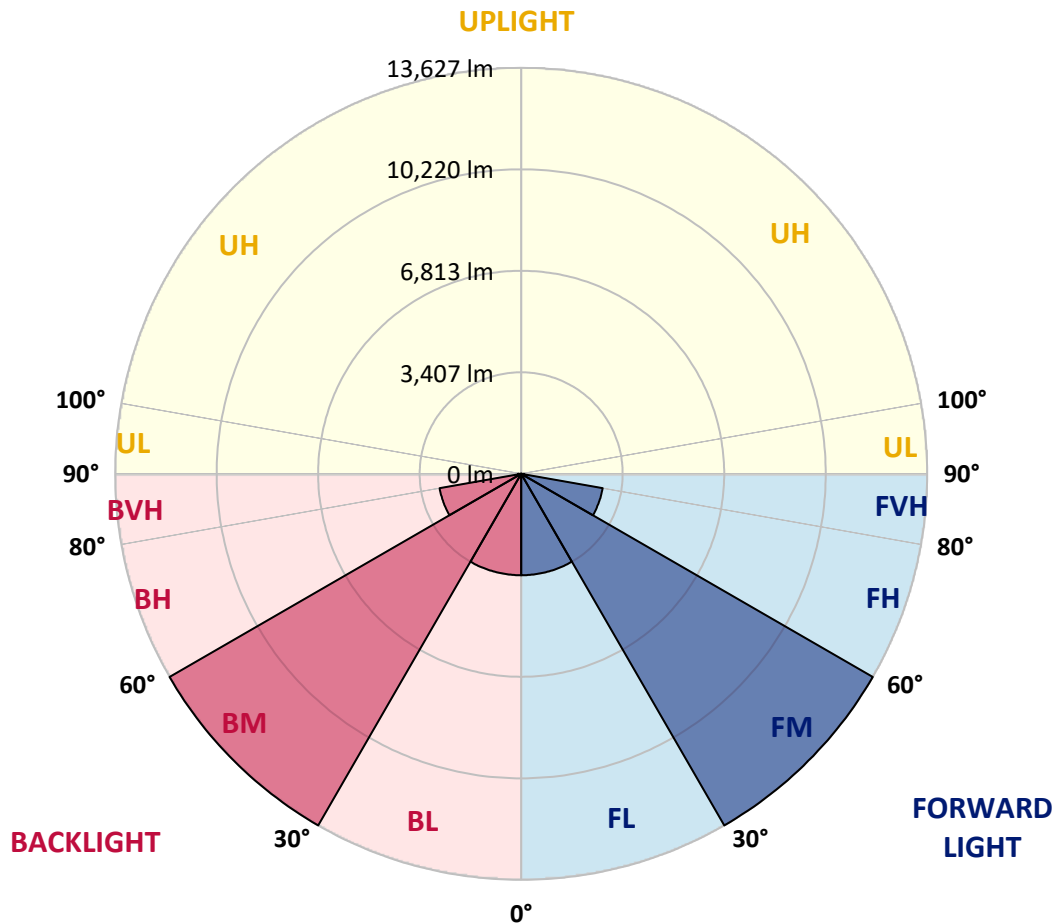
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3405.0	8.6			
FM	(30°-60°)	13626.6	34.2			
FH	(60°-80°)	2777.9	7.0			G2/5000
FVH	(80°-90°)	100.0	0.3			G2/225
BL	(0°-30°)	3405.0	8.6	B4/5000		
BM	(30°-60°)	13626.6	34.2	B5		
BH	(60°-80°)	2777.9	7.0	B4/5000		G2/5000
BVH	(80°-90°)	100.0	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°	7864.0	7864.0	7864.0	7864.0	7864.0	7864.0	7864.0	7864.0	7864.0	7864.0	7864.0
2.5°	7824.7	7903.2	7868.9	7849.2	7864.0	7839.4	7800.2	7844.3	7834.5	7795.3	7780.6
5°	7805.1	7864.0	7824.7	7864.0	7824.7	7893.4	7873.8	7800.2	7888.5	7805.1	7834.5
7.5°	7790.4	7810.0	7819.8	7800.2	7785.5	7868.9	7824.7	7790.4	7741.3	7726.6	7751.1
10°	7756.0	7805.1	7731.5	7829.6	7849.2	7790.4	7790.4	7726.6	7687.4	7662.8	7746.2
12.5°	7844.3	7760.9	7751.1	7800.2	7814.9	7839.4	7770.7	7736.4	7662.8	7672.6	7657.9
15°	7741.3	7775.7	7780.6	7790.4	7805.1	7864.0	7800.2	7726.6	7697.2	7594.1	7604.0
17.5°	7780.6	7746.2	7780.6	7893.4	7873.8	7917.9	7849.2	7736.4	7667.7	7608.9	7687.4
20°	7849.2	7834.5	7849.2	7986.6	8011.1	8050.4	7991.5	7888.5	7756.0	7687.4	7726.6
22.5°	7922.8	7913.0	7922.8	8055.3	8197.6	8246.6	8187.7	7947.4	7878.7	7751.1	7707.0
25°	8055.3	8065.1	8168.1	8315.3	8408.5	8501.7	8393.8	8222.1	8001.3	7922.8	7829.6
27.5°	8349.6	8374.2	8433.0	8648.9	8810.8	8894.2	8742.1	8506.6	8369.3	8207.4	8182.8
30°	8712.7	8712.7	8815.7	9002.1	9222.9	9350.4	9164.0	8884.4	8717.6	8629.3	8575.3
32.5°	9193.4	9139.5	9178.7	9507.4	9850.8	9958.7	9708.5	9365.1	9100.2	8982.5	8943.2
35°	9605.5	9639.9	9728.2	10081.4	10464.0	10714.2	10321.8	9875.3	9605.5	9497.6	9478.0
37.5°	10140.2	10199.1	10243.3	10728.9	11190.1	11283.3	10905.5	10547.4	10218.7	10130.4	10081.4
40°	10895.7	10856.5	10871.2	11229.3	11646.3	11705.2	11332.3	11077.2	10807.4	10753.5	10753.5
42.5°	11518.8	11474.6	11523.7	11656.1	11975.0	11930.8	11724.8	11538.4	11425.6	11366.7	11425.6
45°	11896.5	11886.7	11975.0	12073.1	12298.8	12151.6	11989.7	12019.2	11911.2	11813.1	11808.2
47.5°	12308.6	12244.8	12352.7	12499.9	12328.2	12259.5	12249.7	12313.5	12279.2	12107.5	12053.5
50°	12509.7	12485.2	12656.9	12828.6	12735.4	12578.4	12612.8	12715.8	12274.3	12043.7	11911.2
52.5°	13049.4	13054.3	13383.0	13476.2	13436.9	13206.3	13279.9	13000.3	12480.3	12156.5	12171.2
55°	13898.1	13863.7	14231.7	14506.4	14550.5	14256.2	13903.0	13510.5	12858.0	12529.4	12431.2
57°	13432.0	13510.5	13917.7	14732.0	15144.1	14795.8	14025.6	13309.4	12441.0	12043.7	11867.1
57.5°	12809.0	12936.5	13643.0	14462.2	14893.9	14864.5	13873.5	12936.5	12161.4	11543.3	11558.0
60°	9384.7	9409.3	10047.0	11347.1	12696.1	12725.6	11518.8	10277.6	9414.2	8742.1	8835.3
62.5°	4949.9	5062.8	5317.9	6362.8	7530.4	7814.9	7083.9	6446.2	5700.5	5190.3	5239.4
65°	2619.7	2605.0	2727.6	3022.0	3595.9	3743.1	3645.0	3139.7	2879.7	2796.3	2801.2
67.5°	2129.1	2153.6	2138.9	2153.6	2192.9	2256.7	2241.9	2261.6	2276.3	2300.8	2295.9
70°	1805.3	1805.3	1815.1	1820.0	1820.0	1849.5	1883.8	1947.6	1952.5	1977.0	1986.8
72.5°	1422.7	1412.9	1427.6	1461.9	1466.8	1491.4	1540.4	1579.7	1594.4	1594.4	1564.9
75°	966.4	976.2	995.9	1025.3	1054.7	1098.9	1138.1	1162.7	1172.5	1157.8	1143.0
77.5°	544.5	554.4	569.1	613.2	647.6	686.8	731.0	755.5	780.0	784.9	755.5
80°	323.8	323.8	348.3	382.7	421.9	461.1	500.4	529.8	539.6	539.6	524.9
82.5°	196.2	201.1	220.8	255.1	289.4	314.0	348.3	372.8	392.5	387.6	377.7
85°	103.0	103.0	122.6	152.1	176.6	201.1	201.1	186.4	176.6	152.1	142.3
87.5°	34.3	29.4	39.2	39.2	34.3	39.2	39.2	44.2	44.2	44.2	44.2
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)