

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: P531836

Luminaire Tested: **GALN-SA7A-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531836
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-SA7A-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 22341 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 215
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

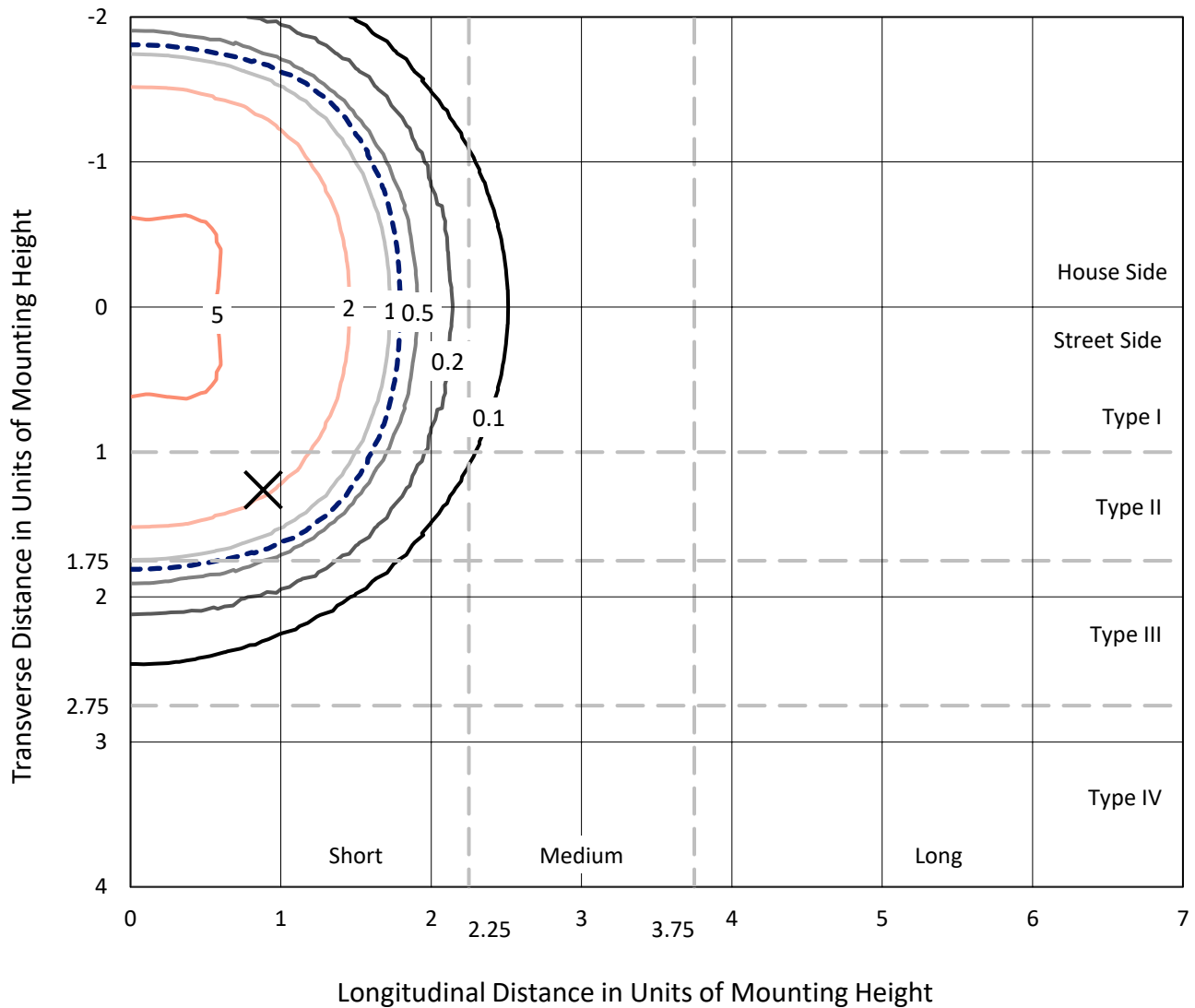


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

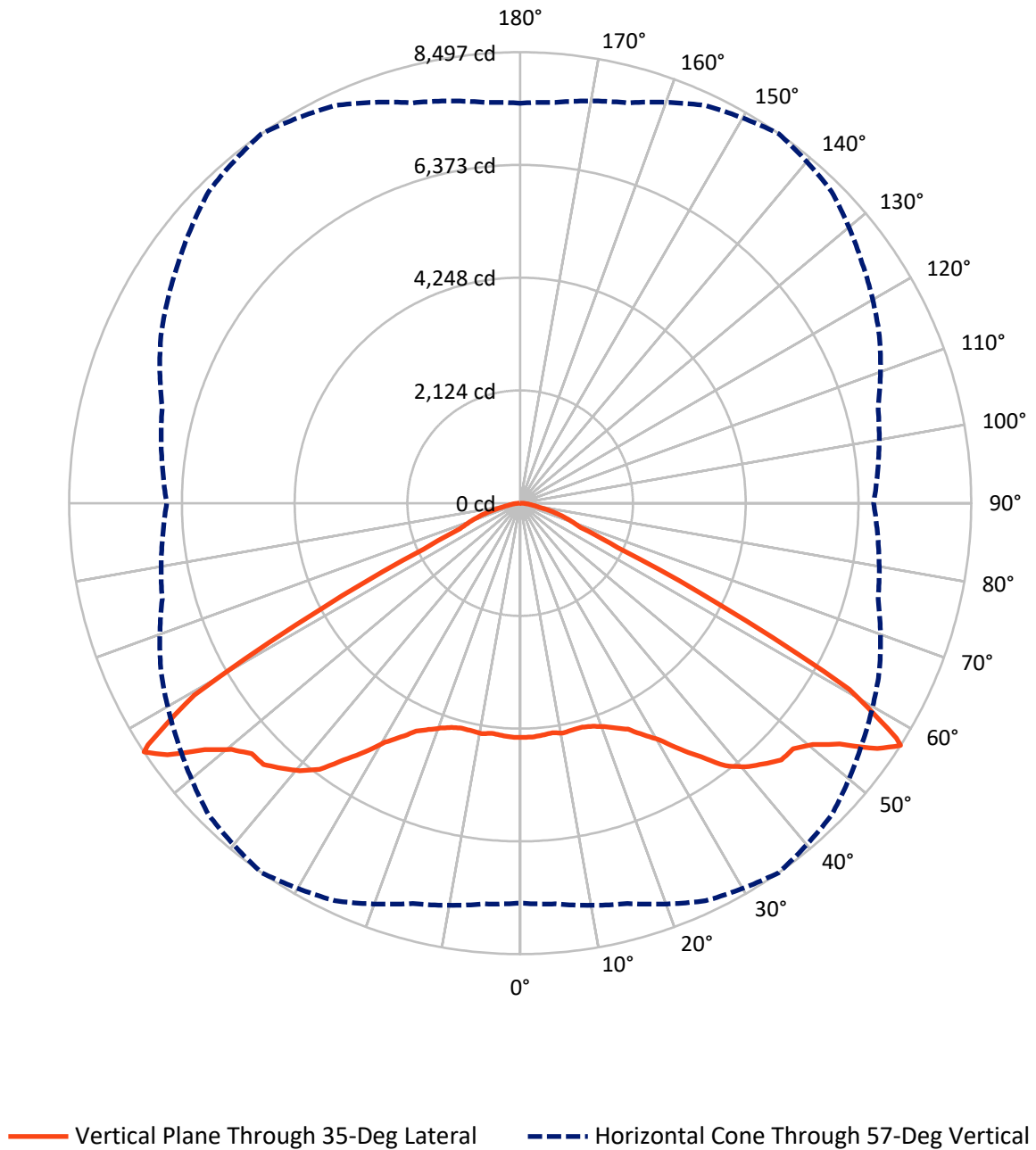


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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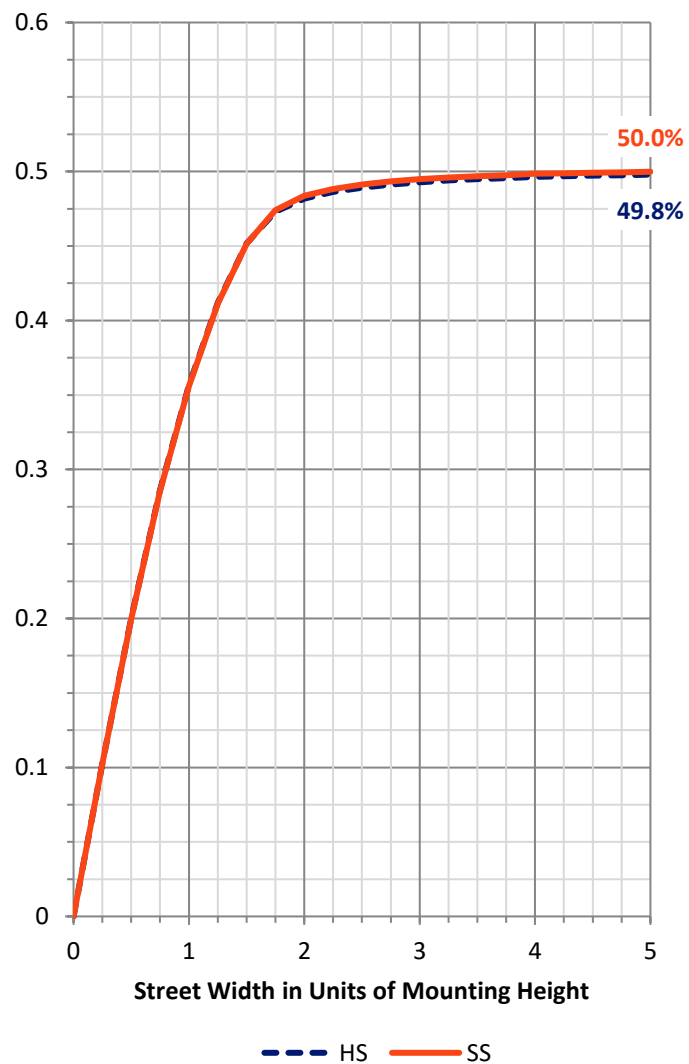
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11170.5	0.0	11170.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11170.5	0.0	11170.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22341.0	0.0	22341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.3	1.9
10°-20°	1238.9	5.5
20°-30°	2163.7	9.7
30°-40°	3545.2	15.9
40°-50°	5198.1	23.3
50°-60°	6547.4	29.3
60°-70°	2462.4	11.0
70°-80°	654.7	2.9
80°-90°	112.3	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°	22341.0	100.0
0°-180°	22341.0	100.0

Coefficient of Utilization



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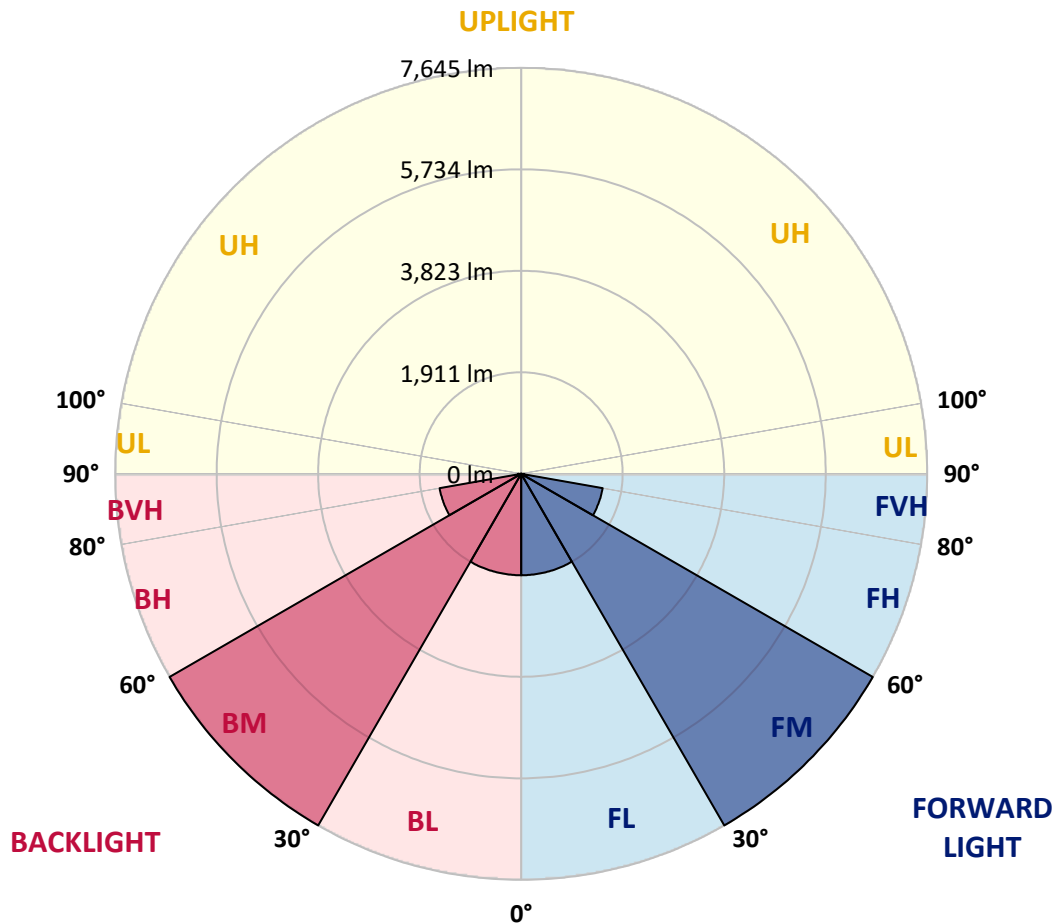
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1910.4	8.6			
FM	(30°-60°)	7645.4	34.2			
FH	(60°-80°)	1558.6	7.0			G1/1800
FVH	(80°-90°)	56.1	0.3			G1/100
BL	(0°-30°)	1910.4	8.6	B3/2500		
BM	(30°-60°)	7645.4	34.2	B4/8500		
BH	(60°-80°)	1558.6	7.0	B3/2500		G1/1800
BVH	(80°-90°)	56.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2
2.5°	4390.2	4434.2	4414.9	4403.9	4412.2	4398.4	4376.4	4401.2	4395.7	4373.6	4365.4
5°	4379.2	4412.2	4390.2	4412.2	4390.2	4428.7	4417.7	4376.4	4425.9	4379.2	4395.7
7.5°	4370.9	4381.9	4387.4	4376.4	4368.1	4414.9	4390.2	4370.9	4343.4	4335.1	4348.9
10°	4351.6	4379.2	4337.9	4392.9	4403.9	4370.9	4370.9	4335.1	4313.1	4299.3	4346.1
12.5°	4401.2	4354.4	4348.9	4376.4	4384.7	4398.4	4359.9	4340.6	4299.3	4304.8	4296.6
15°	4343.4	4362.6	4365.4	4370.9	4379.2	4412.2	4376.4	4335.1	4318.6	4260.8	4266.3
17.5°	4365.4	4346.1	4365.4	4428.7	4417.7	4442.5	4403.9	4340.6	4302.1	4269.1	4313.1
20°	4403.9	4395.7	4403.9	4481.0	4494.8	4516.8	4483.7	4425.9	4351.6	4313.1	4335.1
22.5°	4445.2	4439.7	4445.2	4519.5	4599.3	4626.9	4593.8	4459.0	4420.4	4348.9	4324.1
25°	4519.5	4525.0	4582.8	4665.4	4717.7	4770.0	4709.4	4613.1	4489.3	4445.2	4392.9
27.5°	4684.7	4698.4	4731.5	4852.6	4943.4	4990.2	4904.9	4772.8	4695.7	4604.9	4591.1
30°	4888.4	4888.4	4946.2	5050.8	5174.6	5246.2	5141.6	4984.7	4891.1	4841.6	4811.3
32.5°	5158.1	5127.8	5149.8	5334.3	5526.9	5587.5	5447.1	5254.4	5105.8	5039.7	5017.7
35°	5389.3	5408.6	5458.1	5656.3	5871.0	6011.4	5791.2	5540.7	5389.3	5328.7	5317.7
37.5°	5689.3	5722.4	5747.1	6019.6	6278.3	6330.6	6118.7	5917.8	5733.4	5683.8	5656.3
40°	6113.2	6091.2	6099.4	6300.4	6534.3	6567.4	6358.2	6215.0	6063.7	6033.4	6033.4
42.5°	6462.8	6438.0	6465.5	6539.8	6718.7	6694.0	6578.4	6473.8	6410.5	6377.4	6410.5
45°	6674.7	6669.2	6718.7	6773.8	6900.4	6817.8	6727.0	6743.5	6683.0	6627.9	6625.2
47.5°	6905.9	6870.1	6930.7	7013.3	6916.9	6878.4	6872.9	6908.7	6889.4	6793.1	6762.8
50°	7018.8	7005.0	7101.3	7197.7	7145.4	7057.3	7076.6	7134.4	6886.6	6757.3	6683.0
52.5°	7321.5	7324.3	7508.7	7561.0	7539.0	7409.6	7450.9	7294.0	7002.2	6820.6	6828.8
55°	7797.7	7778.4	7984.9	8139.0	8163.8	7998.6	7800.5	7580.3	7214.2	7029.8	6974.7
57°	7536.2	7580.3	7808.7	8265.6	8496.8	8301.4	7869.3	7467.4	6980.2	6757.3	6658.2
57.5°	7186.7	7258.2	7654.6	8114.2	8356.4	8339.9	7783.9	7258.2	6823.3	6476.5	6484.8
60°	5265.4	5279.2	5637.0	6366.4	7123.3	7139.9	6462.8	5766.4	5282.0	4904.9	4957.2
62.5°	2777.2	2840.5	2983.7	3569.9	4225.0	4384.7	3974.5	3616.7	3198.4	2912.1	2939.6
65°	1469.8	1461.6	1530.4	1695.5	2017.5	2100.1	2045.1	1761.6	1615.7	1568.9	1571.7
67.5°	1194.6	1208.3	1200.1	1208.3	1230.3	1266.1	1257.9	1268.9	1277.1	1290.9	1288.1
70°	1012.9	1012.9	1018.4	1021.2	1021.2	1037.7	1056.9	1092.7	1095.5	1109.2	1114.7
72.5°	798.2	792.7	801.0	820.2	823.0	836.7	864.3	886.3	894.5	894.5	878.0
75°	542.2	547.7	558.7	575.3	591.8	616.5	638.6	652.3	657.8	649.6	641.3
77.5°	305.5	311.0	319.3	344.1	363.3	385.3	410.1	423.9	437.6	440.4	423.9
80°	181.7	181.7	195.4	214.7	236.7	258.7	280.8	297.3	302.8	302.8	294.5
82.5°	110.1	112.9	123.9	143.1	162.4	176.2	195.4	209.2	220.2	217.4	211.9
85°	57.8	57.8	68.8	85.3	99.1	112.9	112.9	104.6	99.1	85.3	79.8
87.5°	19.3	16.5	22.0	22.0	19.3	22.0	22.0	24.8	24.8	24.8	24.8
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)