

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: P651104

Luminaire Tested: **GALN-SA9C-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651104
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-SA9C-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 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: 47311.3 lumens
Efficiency: N/A
Efficacy: 98.4 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

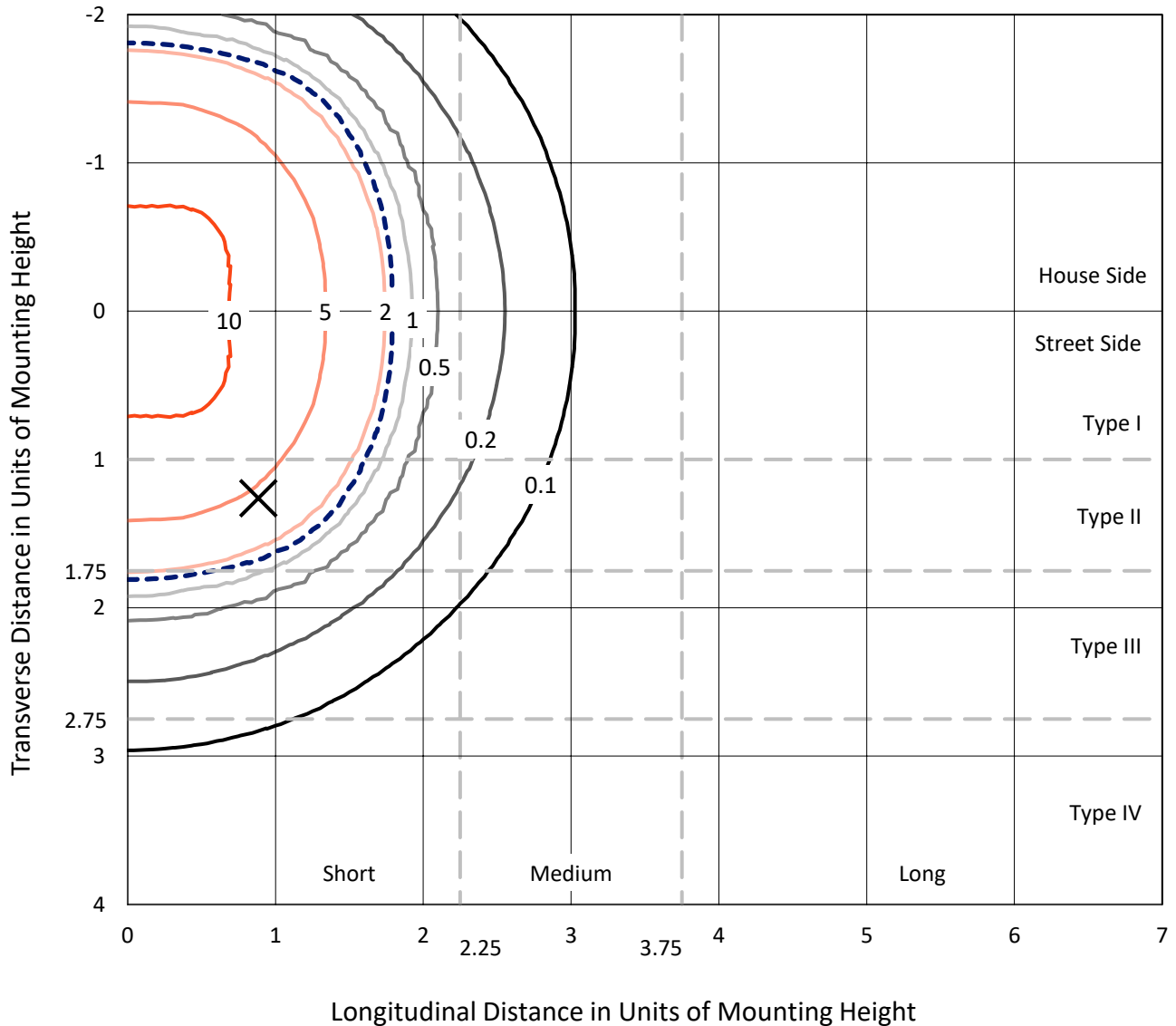
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

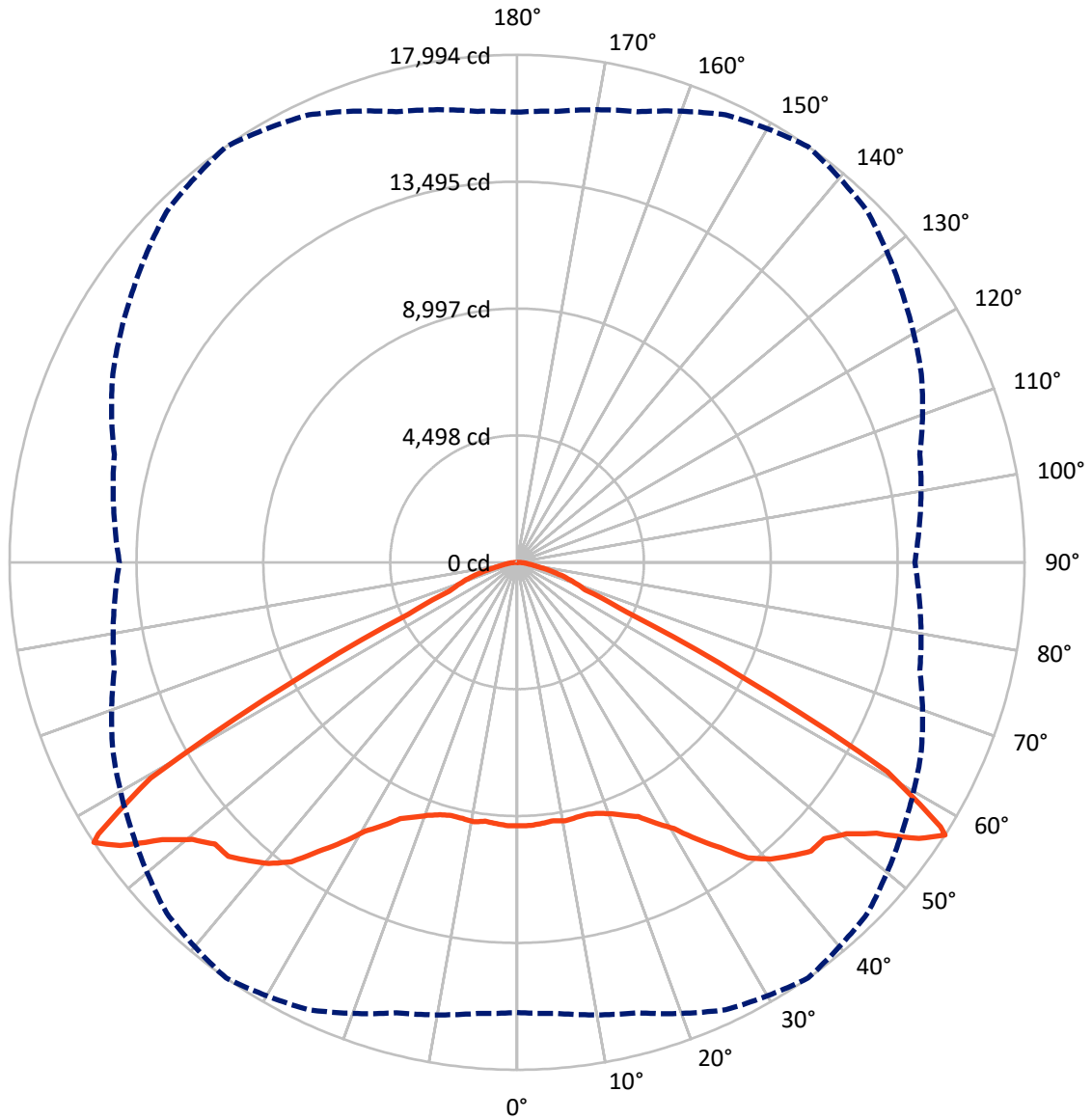
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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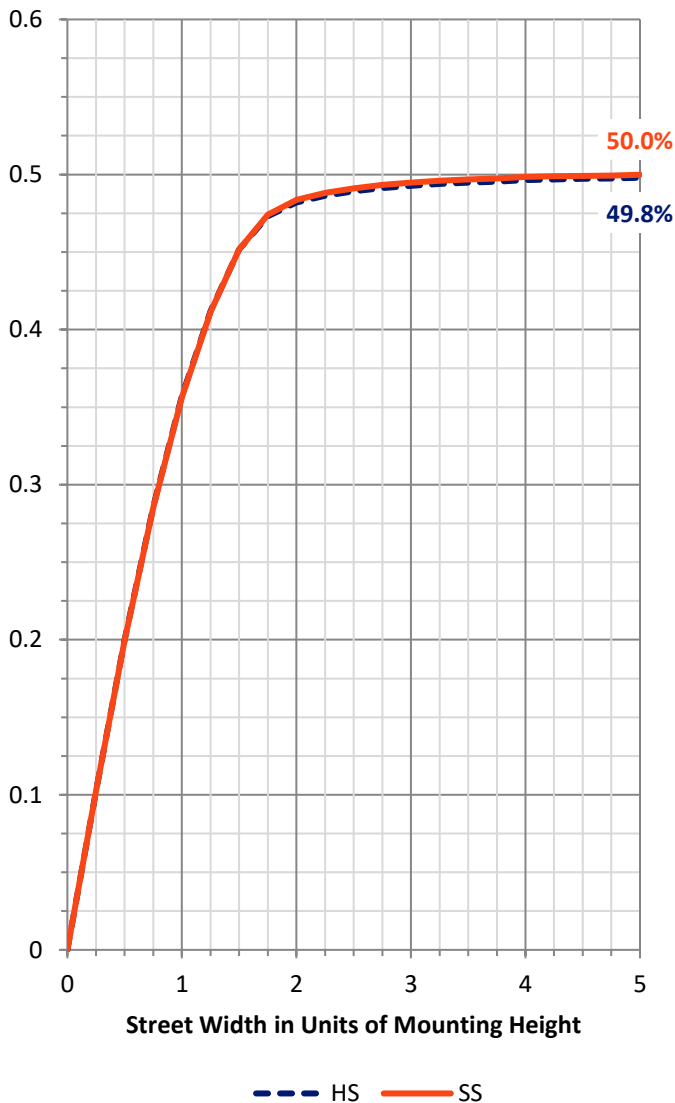
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23655.6	0.0	23655.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23655.6	0.0	23655.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	47311.3	0.0	47311.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.8	1.9
10°-20°	2623.5	5.5
20°-30°	4581.9	9.7
30°-40°	7507.6	15.9
40°-50°	11008.0	23.3
50°-60°	13865.4	29.3
60°-70°	5214.7	11.0
70°-80°	1386.6	2.9
80°-90°	237.7	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°	47311.3	100.0
0°-180°	47311.3	100.0

Coefficient of Utilization



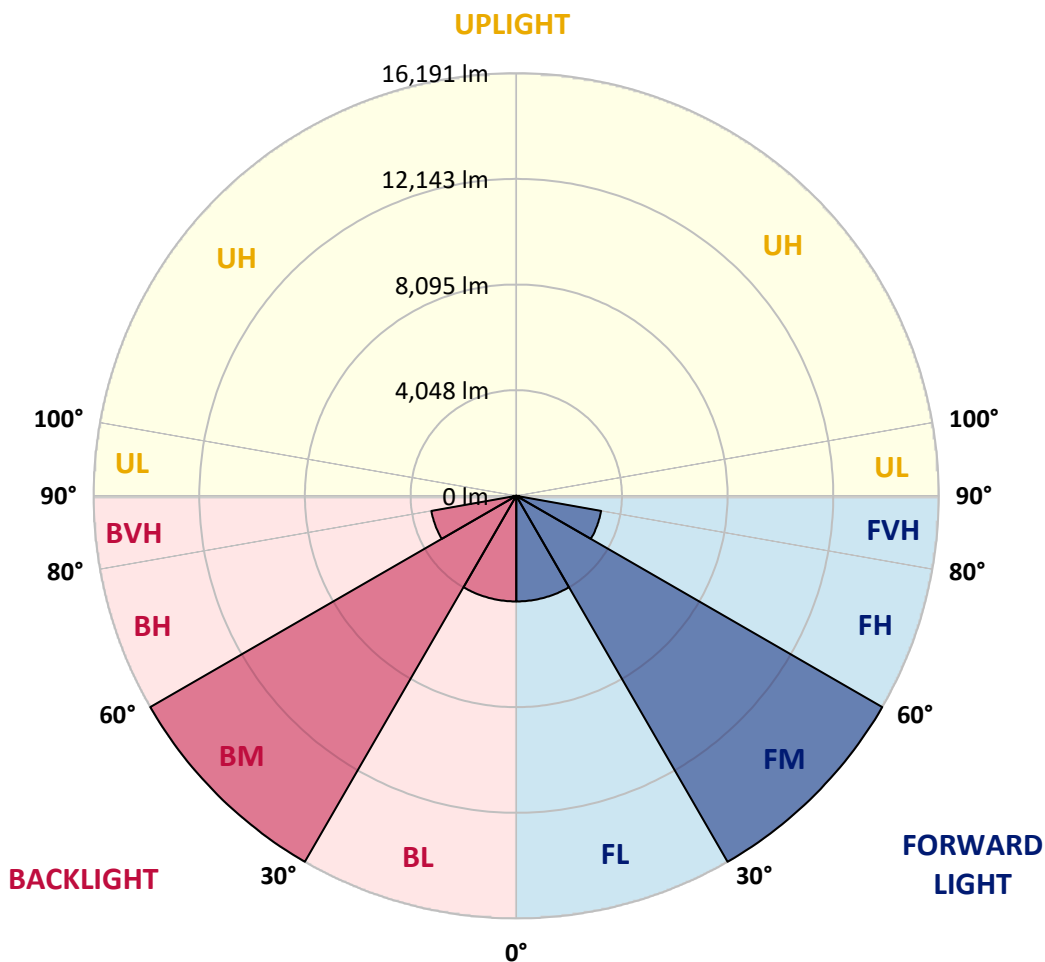
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4045.6	8.6			
FM (30°-60°)	16190.5	34.2			
FH (60°-80°)	3300.6	7.0			G2/5000
FVH (80°-90°)	118.9	0.3			G2/225
BL (0°-30°)	4045.6	8.6	B4/5000		
BM (30°-60°)	16190.5	34.2	B5		
BH (60°-80°)	3300.6	7.0	B4/5000		G2/5000
BVH (80°-90°)	118.9	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°	9343.6	9343.6	9343.6	9343.6	9343.6	9343.6	9343.6	9343.6	9343.6	9343.6	9343.6
2.5°	9297.0	9390.3	9349.5	9326.2	9343.6	9314.5	9267.8	9320.3	9308.7	9262.0	9244.5
5°	9273.7	9343.6	9297.0	9343.6	9297.0	9378.6	9355.3	9267.8	9372.8	9273.7	9308.7
7.5°	9256.2	9279.5	9291.2	9267.8	9250.4	9349.5	9297.0	9256.2	9197.9	9180.4	9209.5
10°	9215.4	9273.7	9186.2	9302.8	9326.2	9256.2	9256.2	9180.4	9133.8	9104.7	9203.7
12.5°	9320.3	9221.2	9209.5	9267.8	9285.3	9314.5	9232.9	9192.0	9104.7	9116.3	9098.8
15°	9197.9	9238.7	9244.5	9256.2	9273.7	9343.6	9267.8	9180.4	9145.5	9023.0	9034.7
17.5°	9244.5	9203.7	9244.5	9378.6	9355.3	9407.8	9326.2	9192.0	9110.5	9040.5	9133.8
20°	9326.2	9308.7	9326.2	9489.3	9518.5	9565.1	9495.1	9372.8	9215.4	9133.8	9180.4
22.5°	9413.6	9402.0	9413.6	9570.9	9740.0	9798.3	9728.4	9442.7	9361.1	9209.5	9157.1
25°	9570.9	9582.6	9705.1	9879.9	9990.7	10101.4	9973.2	9769.1	9506.8	9413.6	9302.8
27.5°	9920.7	9949.9	10019.8	10276.3	10468.6	10567.7	10387.0	10107.2	9944.0	9751.6	9722.5
30°	10352.0	10352.0	10474.4	10695.9	10958.2	11109.8	10888.3	10556.1	10357.8	10253.0	10188.8
32.5°	10923.2	10859.2	10905.8	11296.3	11704.3	11832.5	11535.2	11127.3	10812.5	10672.6	10626.0
35°	11412.9	11453.7	11558.6	11978.3	12432.9	12730.2	12263.9	11733.5	11412.9	11284.6	11261.3
37.5°	12048.3	12118.1	12170.6	12747.7	13295.6	13406.3	12957.5	12532.0	12141.5	12036.6	11978.3
40°	12945.8	12899.3	12916.8	13342.2	13837.6	13907.6	13464.7	13161.5	12841.0	12776.8	12776.8
42.5°	13686.1	13633.6	13692.0	13849.3	14228.2	14175.7	13930.9	13709.4	13575.3	13505.5	13575.3
45°	14134.9	14123.2	14228.2	14344.8	14612.9	14438.0	14245.7	14280.7	14152.4	14035.9	14030.0
47.5°	14624.6	14548.8	14677.0	14851.9	14647.9	14566.3	14554.6	14630.4	14589.6	14385.6	14321.5
50°	14863.6	14834.4	15038.4	15242.5	15131.7	14945.2	14985.9	15108.4	14583.8	14309.8	14152.4
52.5°	15504.7	15510.6	15901.0	16011.8	15965.2	15691.2	15778.7	15446.4	14828.6	14443.8	14461.3
55°	16513.1	16472.3	16909.5	17235.9	17288.4	16938.6	16518.9	16052.6	15277.4	14886.9	14770.3
57°	15959.4	16052.6	16536.4	17504.0	17993.6	17579.8	16664.7	15813.7	14781.9	14309.8	14100.0
57.5°	15219.1	15370.6	16210.0	17183.4	17696.3	17661.4	16483.9	15370.6	14449.7	13715.3	13732.8
60°	11150.6	11179.7	11937.5	13482.1	15085.0	15120.0	13686.1	12211.4	11185.6	10387.0	10497.8
62.5°	5881.3	6015.3	6318.4	7560.0	8947.2	9285.3	8416.8	7659.1	6773.1	6166.9	6225.2
65°	3112.6	3095.1	3240.9	3590.6	4272.5	4447.4	4330.8	3730.4	3421.5	3322.5	3328.3
67.5°	2529.7	2558.8	2541.3	2558.8	2605.5	2681.3	2663.8	2687.1	2704.6	2733.8	2727.9
70°	2145.1	2145.1	2156.7	2162.5	2162.5	2197.4	2238.2	2314.0	2319.9	2349.0	2360.7
72.5°	1690.3	1678.7	1696.2	1737.0	1742.8	1772.0	1830.3	1876.9	1894.4	1894.4	1859.4
75°	1148.3	1159.9	1183.3	1218.2	1253.2	1305.7	1352.3	1381.4	1393.1	1375.6	1358.1
77.5°	647.0	658.7	676.2	728.6	769.4	816.0	868.5	897.7	926.8	932.6	897.7
80°	384.7	384.7	413.9	454.6	501.3	547.9	594.5	629.5	641.2	641.2	623.7
82.5°	233.1	239.0	262.3	303.1	343.9	373.1	413.9	443.0	466.3	460.4	448.8
85°	122.4	122.4	145.7	180.7	209.8	239.0	239.0	221.5	209.8	180.7	169.0
87.5°	40.8	35.0	46.6	46.6	40.8	46.6	46.6	52.5	52.5	52.5	52.5
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)