

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: P651831

Luminaire Tested: **GALN-SA4A-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9832.1 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

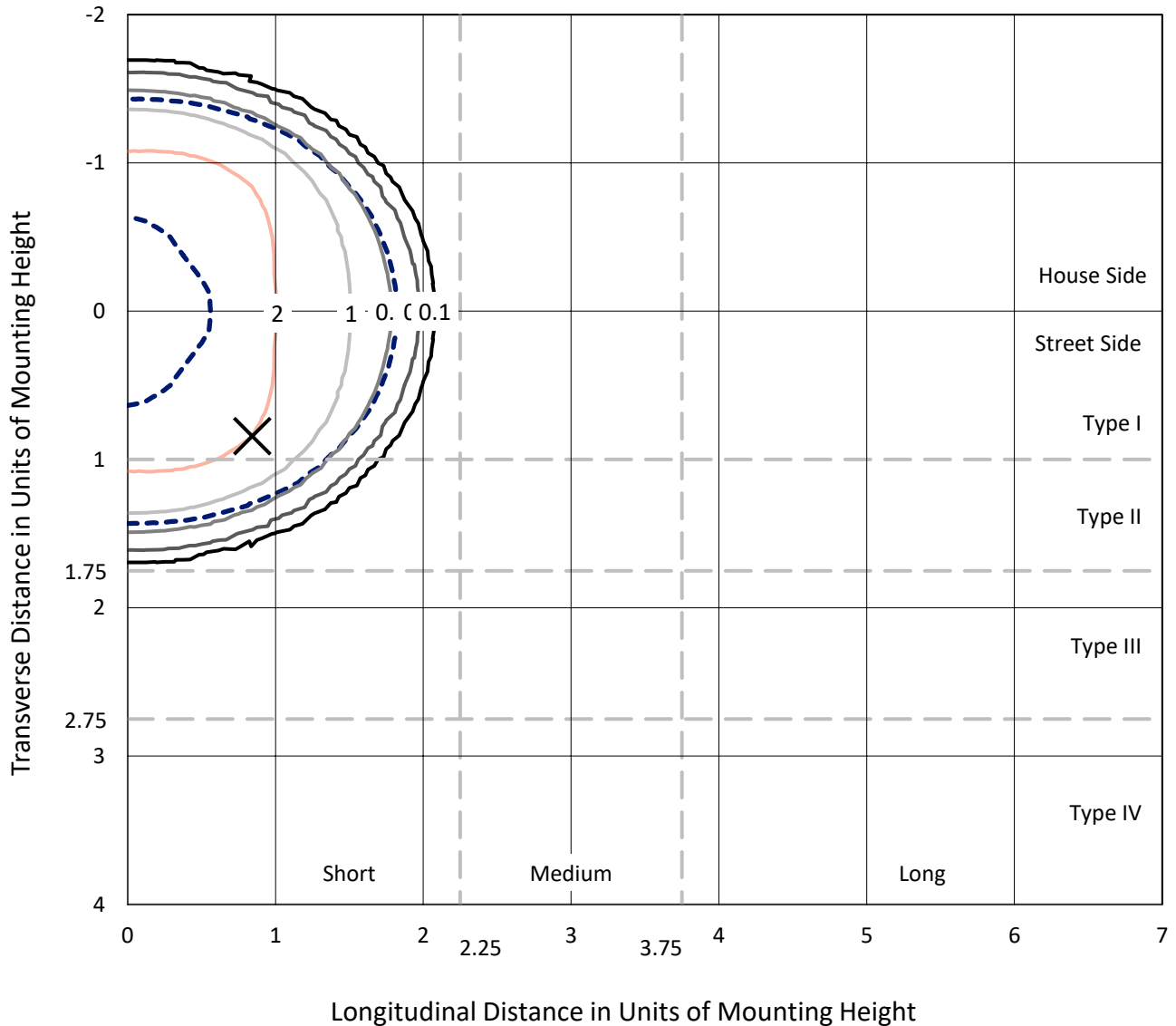
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

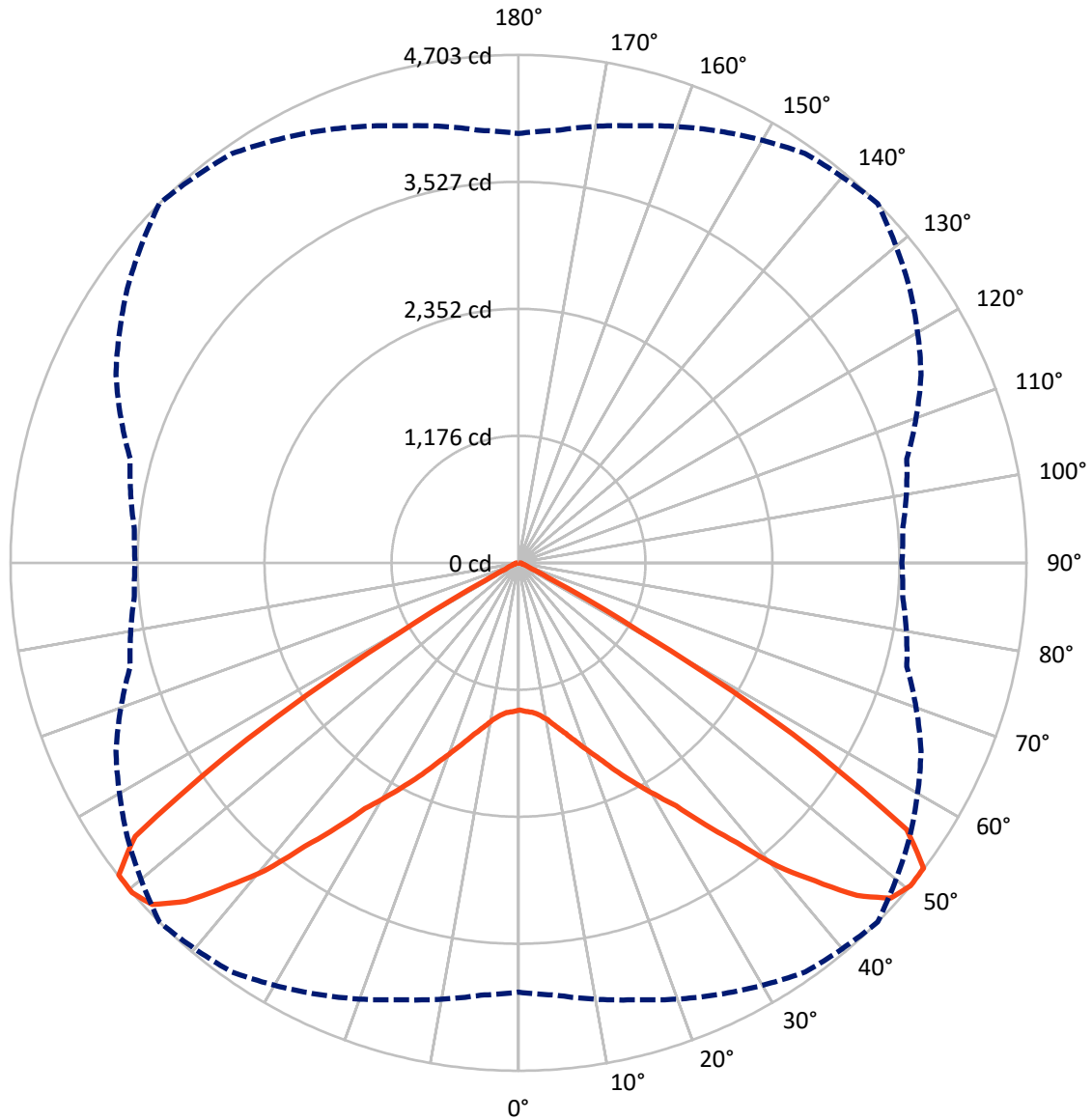
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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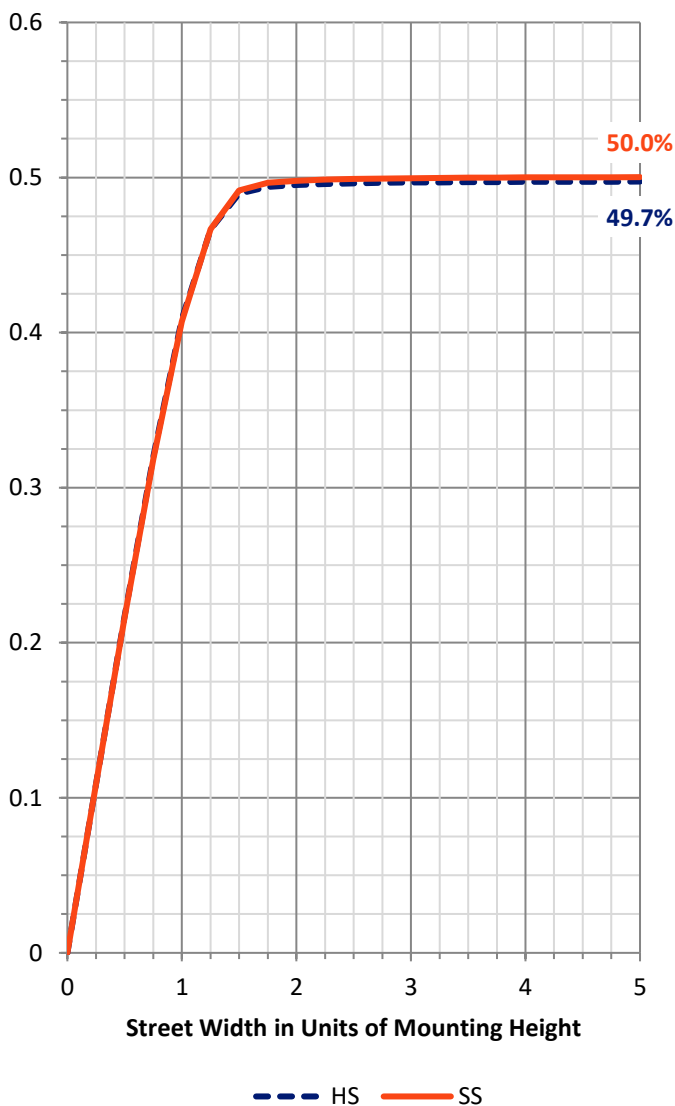
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4916.1	0.0	4916.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4916.1	0.0	4916.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	9832.1	0.0	9832.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.4
10°-20°	467.4	4.8
20°-30°	954.6	9.7
30°-40°	1820.4	18.5
40°-50°	3067.6	31.2
50°-60°	2925.5	29.8
60°-70°	408.4	4.2
70°-80°	39.1	0.4
80°-90°	13.5	0.1
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°	9832.1	100.0
0°-180°	9832.1	100.0

Coefficient of Utilization



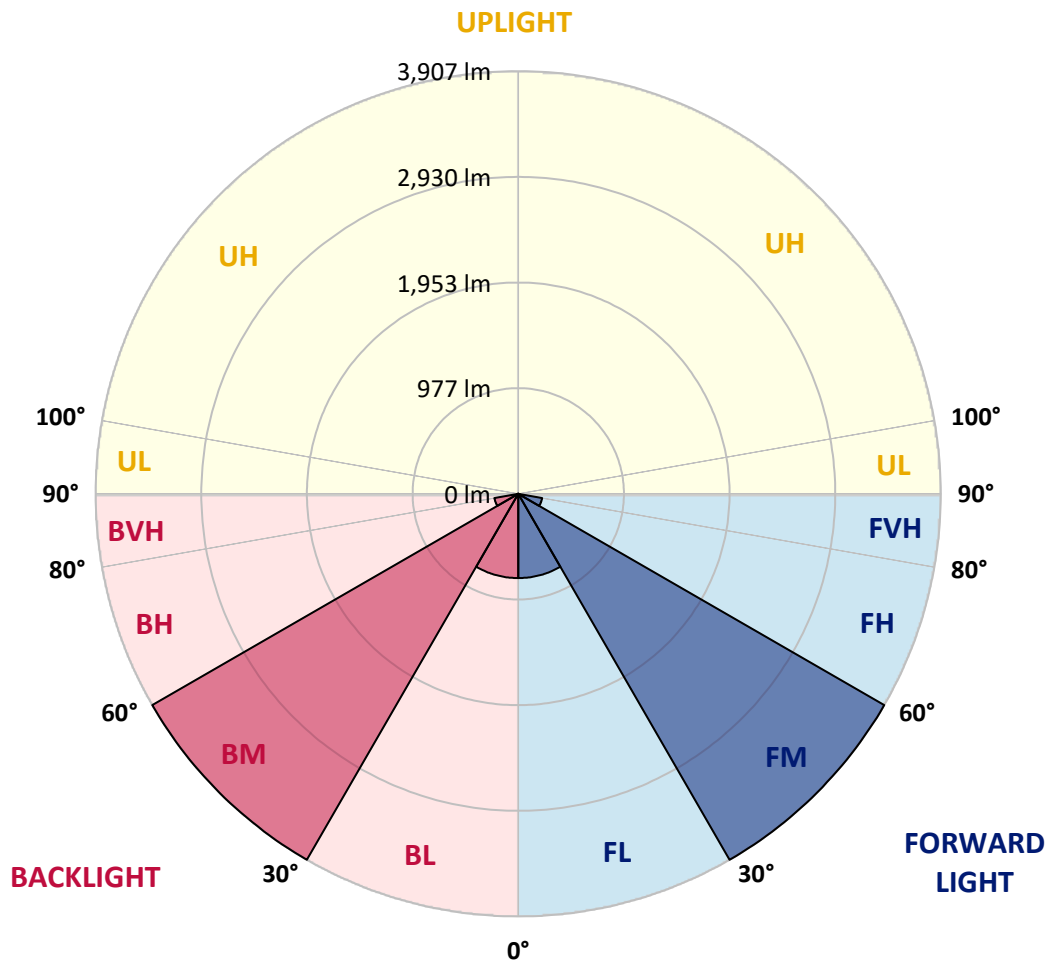
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.8	7.9			
FM	(30°-60°)	3906.8	39.7			
FH	(60°-80°)	223.7	2.3			G0/660
FVH	(80°-90°)	6.8	0.1			G0/10
BL	(0°-30°)	778.8	7.9	B2/1000		
BM	(30°-60°)	3906.8	39.7	B3/5000		
BH	(60°-80°)	223.7	2.3	B1/500		G0/660
BVH	(80°-90°)	6.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1363.1	1363.1	1363.1	1363.1	1363.1	1363.1	1363.1	1363.1	1363.1	1363.1	1363.1
2.5°	1358.1	1358.1	1356.5	1369.7	1363.1	1378.0	1376.4	1381.3	1386.3	1384.6	1397.8
5°	1346.6	1344.9	1344.9	1359.8	1374.7	1391.3	1406.2	1416.1	1432.6	1432.6	1449.1
7.5°	1358.1	1349.9	1361.5	1368.1	1396.2	1424.3	1449.1	1469.0	1507.1	1520.3	1515.3
10°	1361.5	1371.4	1379.7	1399.5	1434.2	1477.3	1498.7	1548.4	1591.4	1621.2	1627.8
12.5°	1382.9	1397.8	1421.0	1469.0	1500.4	1556.7	1586.5	1634.4	1693.9	1727.1	1750.2
15°	1424.3	1429.3	1459.1	1520.3	1588.1	1639.4	1685.7	1720.4	1778.4	1816.4	1818.1
17.5°	1477.3	1498.7	1540.1	1598.0	1669.1	1745.2	1781.7	1819.7	1841.2	1892.5	1904.0
20°	1583.1	1586.5	1626.2	1702.3	1791.6	1861.0	1887.5	1907.4	1899.1	1952.0	1962.0
22.5°	1682.4	1685.7	1735.3	1837.9	1933.9	1993.4	2004.9	1993.4	1968.6	2006.6	2009.9
25°	1783.3	1813.1	1849.4	1952.0	2071.1	2150.5	2152.2	2120.7	2069.4	2076.1	2092.7
27.5°	1940.4	1962.0	2000.0	2094.3	2224.9	2314.3	2299.5	2261.4	2195.2	2200.1	2195.2
30°	2124.1	2144.0	2175.3	2296.1	2392.1	2489.7	2511.1	2474.8	2375.5	2354.0	2378.9
32.5°	2345.7	2373.9	2431.8	2542.6	2623.7	2683.2	2698.1	2684.9	2592.2	2584.0	2600.5
35°	2615.4	2653.4	2706.4	2804.0	2870.2	2977.6	2977.6	2933.0	2848.6	2858.6	2857.0
37.5°	2899.9	2956.2	3038.9	3138.1	3227.5	3285.4	3267.2	3229.1	3144.8	3123.2	3144.8
40°	3257.3	3285.4	3389.6	3518.7	3627.8	3694.0	3616.2	3533.5	3331.7	3363.2	3421.0
42.5°	3583.2	3627.8	3707.2	3849.5	3973.6	4028.1	3935.5	3771.7	3528.6	3503.8	3546.7
45°	3861.0	3909.1	4013.3	4216.7	4347.4	4395.4	4190.3	3925.6	3647.7	3584.8	3603.0
47.5°	4046.3	4071.1	4216.7	4410.3	4529.4	4638.5	4344.1	4031.4	3703.9	3584.8	3578.2
50°	3975.2	4018.2	4188.6	4408.6	4625.3	4703.1	4421.9	4112.5	3722.1	3569.9	3550.0
52.5°	3530.2	3604.6	3794.9	4091.0	4418.5	4696.5	4529.4	4086.1	3715.5	3584.8	3614.5
55°	2456.6	2458.2	2689.9	3126.6	3705.5	4360.7	4372.2	4115.9	3758.5	3677.4	3679.1
57.5°	987.6	1037.2	1214.2	1652.6	2186.9	2994.2	3560.0	3818.1	3763.5	3743.6	3794.9
60°	249.8	251.5	306.0	466.5	769.3	1283.7	1864.3	2522.7	2904.9	3035.6	3053.8
62.5°	127.4	129.0	142.3	165.4	210.1	344.1	612.1	971.0	1381.3	1589.7	1644.3
65°	104.2	104.2	112.5	124.0	125.7	132.4	158.8	226.6	329.2	373.8	378.8
67.5°	79.4	79.4	86.0	92.7	96.0	94.3	91.0	94.3	114.1	109.2	105.9
70°	49.6	51.3	54.6	61.2	64.5	66.2	67.8	71.1	81.1	84.4	81.1
72.5°	29.8	29.8	31.5	36.4	41.4	44.7	49.6	52.9	57.9	66.2	64.5
75°	13.2	13.2	16.6	21.5	26.5	31.5	36.4	41.4	44.7	49.6	51.3
77.5°	3.3	5.0	8.2	14.9	19.8	26.5	33.1	38.0	41.4	41.4	39.7
80°	1.7	1.7	6.6	11.6	21.5	28.1	36.4	39.7	44.7	41.4	36.4
82.5°	1.7	1.7	6.6	11.6	19.8	28.1	38.0	43.0	46.3	41.4	34.7
85°	0.0	1.7	5.0	9.9	16.6	19.8	16.6	11.6	6.6	6.6	5.0
87.5°	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)