

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: P534178

Luminaire Tested: **GALN-SA9C-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45619 lumens
Efficiency: N/A
Efficacy: 94.8 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): 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



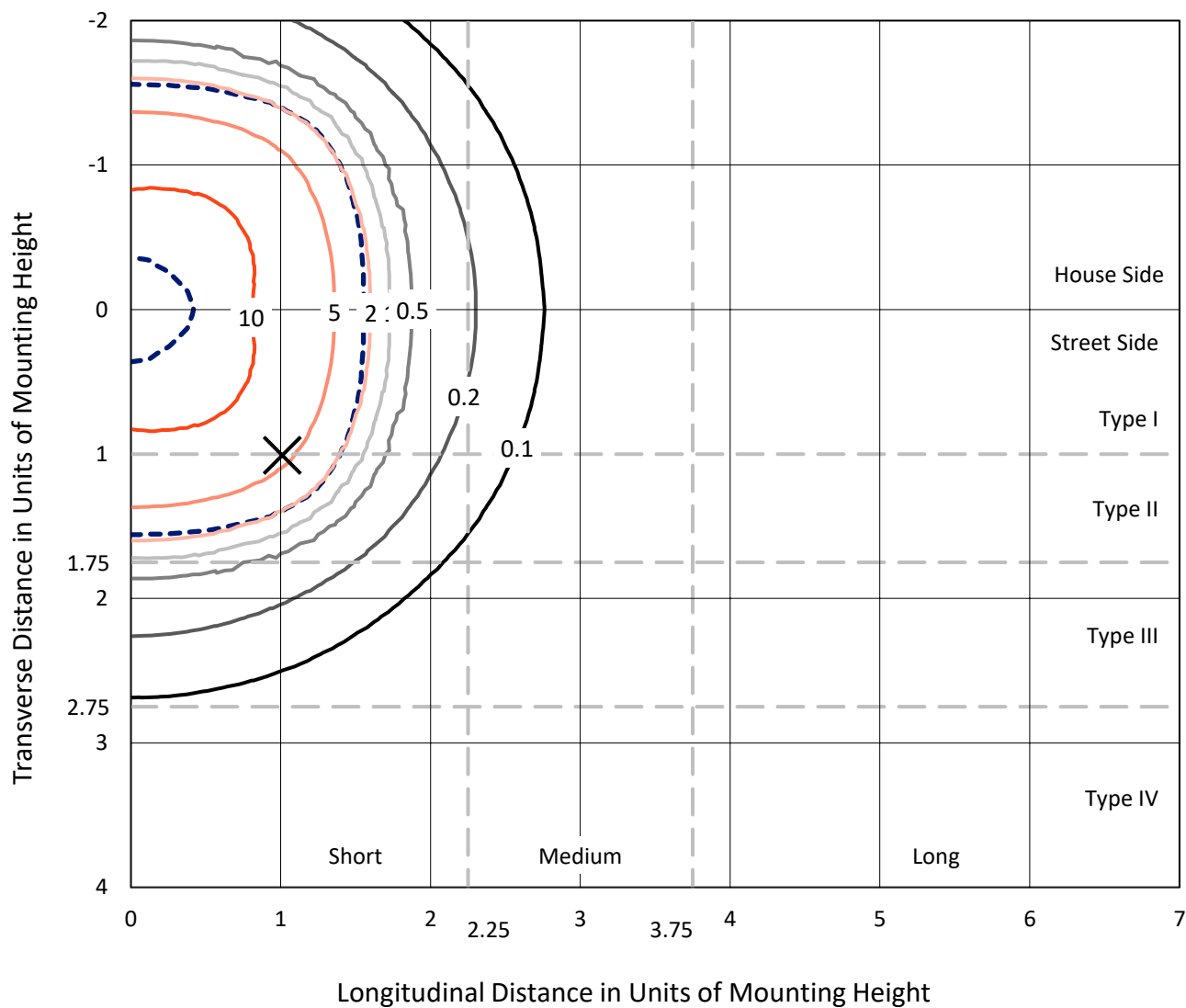
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

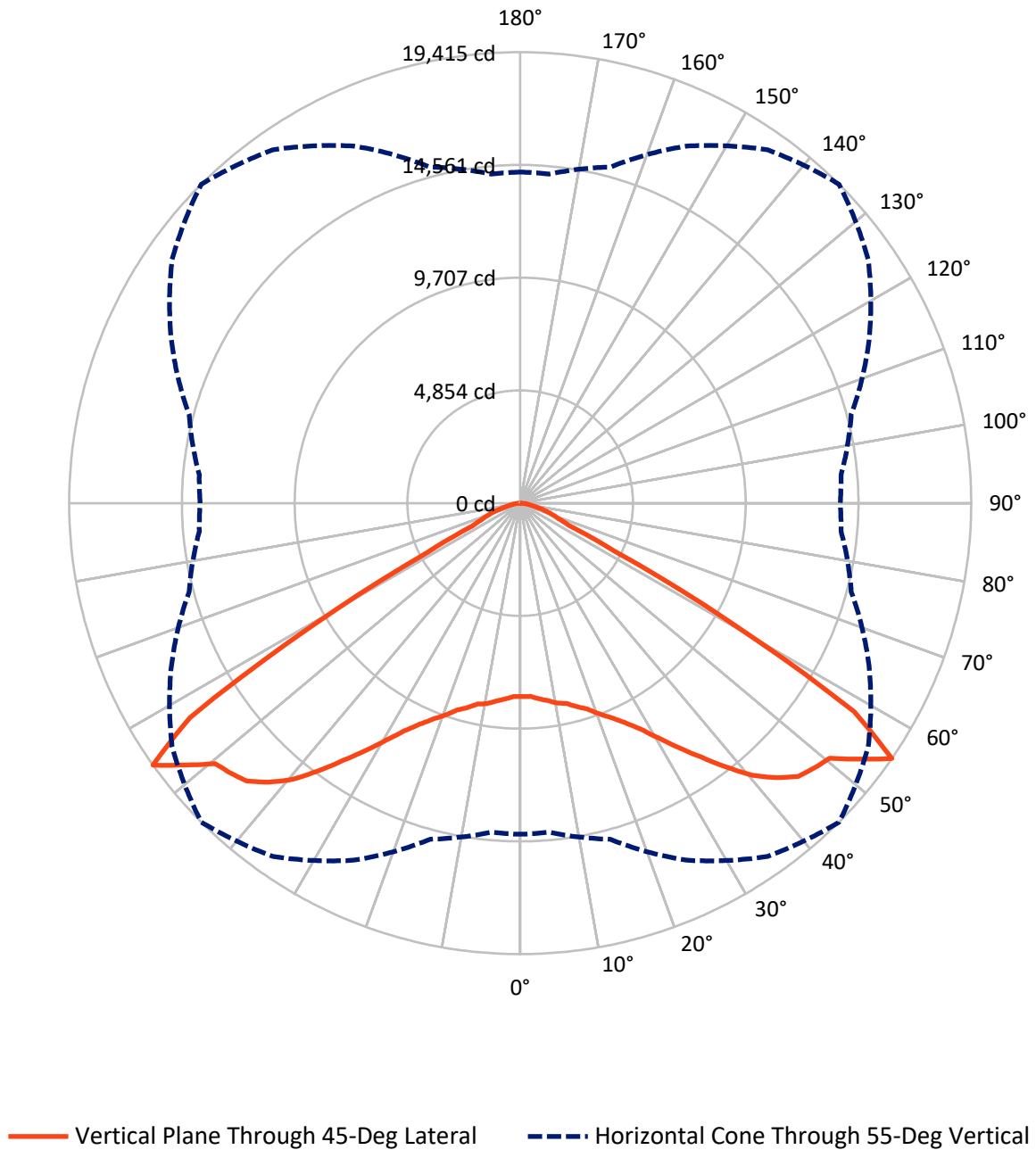
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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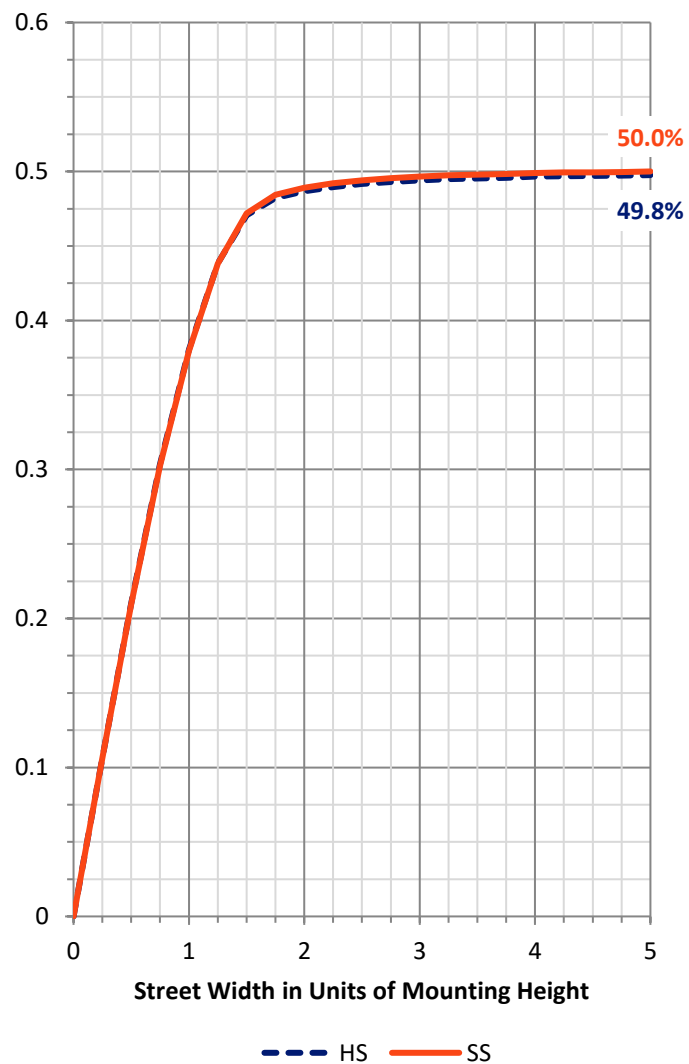
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22809.5	0.0	22809.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22809.5	0.0	22809.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45619.0	0.0	45619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.7	1.8
10°-20°	2578.2	5.7
20°-30°	4807.5	10.5
30°-40°	8049.4	17.6
40°-50°	12525.5	27.5
50°-60°	13005.4	28.5
60°-70°	2758.0	6.0
70°-80°	908.3	2.0
80°-90°	173.0	0.4
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°	45619.0	100.0
0°-180°	45619.0	100.0

Coefficient of Utilization



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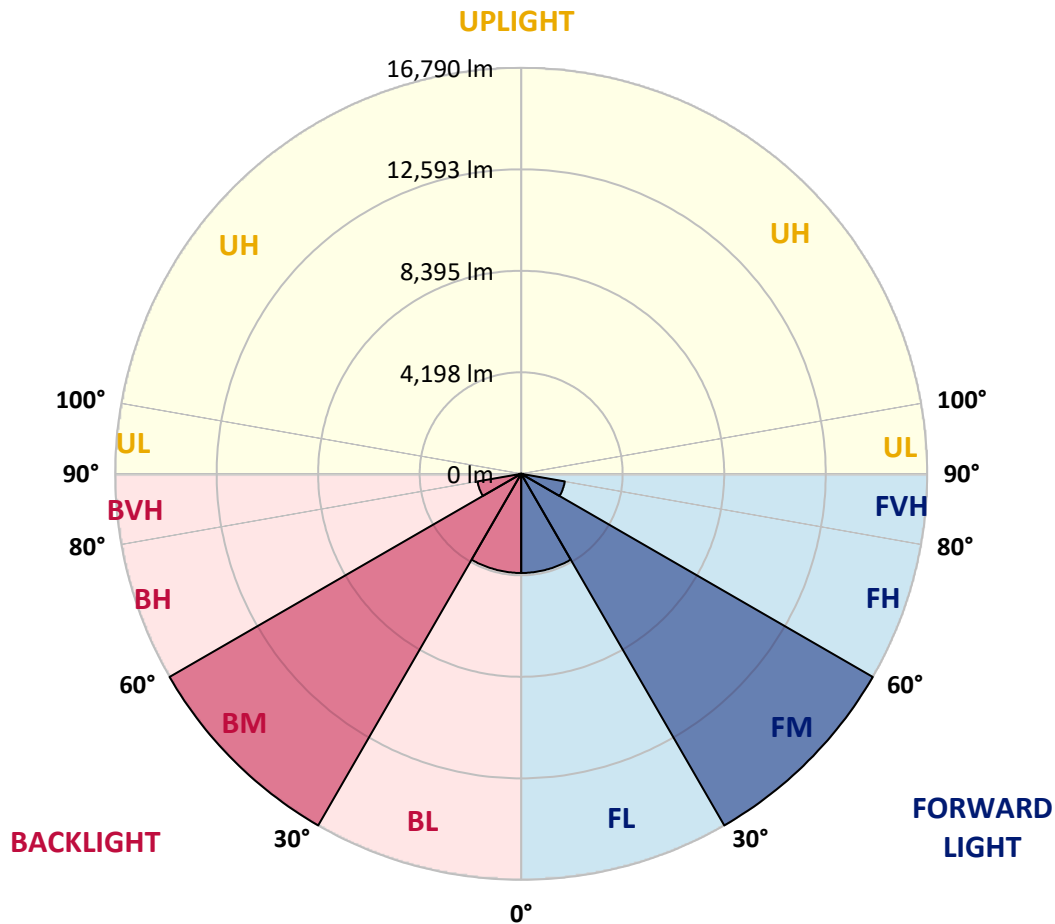
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4099.7	9.0			
FM	(30°-60°)	16790.1	36.8			
FH	(60°-80°)	1833.2	4.0			G2/5000
FVH	(80°-90°)	86.5	0.2			G1/100
BL	(0°-30°)	4099.7	9.0	B4/5000		
BM	(30°-60°)	16790.1	36.8	B5		
BH	(60°-80°)	1833.2	4.0	B3/2500		G2/5000
BVH	(80°-90°)	86.5	0.2			G1/100
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°	8329.3	8329.3	8329.3	8329.3	8329.3	8329.3	8329.3	8329.3	8329.3	8329.3	8329.3
2.5°	8428.6	8390.0	8323.8	8373.4	8412.0	8329.3	8362.4	8379.0	8367.9	8323.8	8340.4
5°	8549.8	8527.8	8472.7	8511.3	8461.6	8461.6	8428.6	8384.5	8450.6	8439.6	8467.2
7.5°	8549.8	8522.3	8632.5	8560.9	8582.9	8582.9	8527.8	8483.7	8516.8	8467.2	8439.6
10°	8720.7	8759.3	8709.7	8726.2	8715.2	8753.8	8671.1	8643.6	8616.0	8599.5	8566.4
12.5°	8924.7	8897.1	8913.7	8902.6	8941.2	8842.0	8792.4	8731.8	8781.4	8709.7	8759.3
15°	9090.1	9073.5	9090.1	9134.2	9095.6	9090.1	9001.9	8941.2	8864.1	8880.6	8803.4
17.5°	9316.1	9299.5	9305.1	9343.6	9338.1	9310.6	9244.4	9128.7	9101.1	9057.0	9007.4
20°	9652.3	9624.8	9613.8	9630.3	9657.9	9679.9	9547.6	9503.5	9409.8	9338.1	9255.4
22.5°	9939.0	9928.0	9972.1	9900.4	9961.0	10027.2	9900.4	9878.4	9646.8	9608.2	9520.0
25°	10335.9	10319.4	10291.8	10396.5	10468.2	10462.7	10341.4	10220.1	10043.7	9999.6	9999.6
27.5°	10754.8	10661.1	10804.5	10832.0	10958.8	10997.4	10892.6	10716.3	10550.9	10457.2	10479.2
30°	11278.5	11190.3	11223.4	11421.8	11587.2	11730.5	11465.9	11206.9	10975.3	10810.0	10782.4
32.5°	11802.2	11714.0	11813.2	12006.2	12336.9	12551.9	12292.8	11840.8	11570.7	11328.1	11377.7
35°	12226.7	12292.8	12452.7	12744.8	13086.6	13433.9	13020.5	12673.2	12287.3	12017.2	12055.8
37.5°	12910.2	13114.2	13241.0	13577.2	14062.3	14420.6	13990.7	13538.6	13125.2	12772.4	12651.1
40°	13803.2	13941.0	14084.4	14481.3	15054.6	15412.9	15005.0	14415.1	14007.2	13643.4	13626.8
42.5°	14784.5	14916.8	15065.6	15550.7	15892.5	16162.6	15787.7	15473.5	15021.5	14734.8	14718.3
45°	15925.5	15831.8	15997.2	16316.9	16603.6	16780.0	16537.4	16383.1	16057.8	15793.2	15765.7
47.5°	16686.3	16603.6	16901.2	17187.9	17232.0	17039.1	17088.7	17232.0	16890.2	16454.7	16592.5
50°	17127.3	17127.3	17325.7	17590.3	17507.6	17259.6	17650.9	17662.0	17320.2	16934.3	16934.3
52.5°	16361.0	16531.9	17094.2	17959.6	18235.3	18306.9	18218.7	17843.9	16950.9	16162.6	16124.0
55°	14255.3	14216.7	14977.4	16961.9	18566.0	19414.9	18290.4	16565.0	14751.4	13863.9	13775.7
57.5°	9272.0	9316.1	10451.7	12474.7	15368.8	16950.9	15054.6	12629.1	10451.7	9227.9	9343.6
60°	4172.9	4321.8	5010.8	6521.3	9007.4	10297.3	9029.4	6852.0	5258.9	4564.3	4625.0
62.5°	2397.9	2425.5	2453.1	2910.6	3836.7	4536.8	3985.5	3076.0	2712.1	2590.9	2590.9
65°	2023.1	2006.5	2012.1	2050.6	2149.9	2293.2	2232.6	2149.9	2160.9	2149.9	2133.3
67.5°	1719.9	1741.9	1725.4	1753.0	1758.5	1780.5	1819.1	1852.2	1857.7	1868.7	1857.7
70°	1411.2	1416.7	1427.7	1449.8	1455.3	1471.8	1527.0	1554.5	1571.1	1571.1	1593.1
72.5°	1080.4	1074.9	1086.0	1108.0	1135.6	1141.1	1190.7	1229.3	1251.3	1223.8	1229.3
75°	711.1	716.6	733.2	749.7	788.3	826.9	843.4	882.0	887.5	898.5	871.0
77.5°	424.5	435.5	452.0	485.1	518.2	551.2	589.8	617.4	628.4	617.4	584.3
80°	275.6	275.6	297.7	325.2	363.8	391.4	413.4	435.5	452.0	435.5	424.5
82.5°	170.9	170.9	198.4	231.5	259.1	275.6	308.7	336.3	352.8	341.8	325.2
85°	88.2	93.7	115.8	143.3	165.4	176.4	170.9	154.3	137.8	132.3	121.3
87.5°	27.6	27.6	33.1	33.1	27.6	27.6	33.1	27.6	33.1	33.1	33.1
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)