

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: P451729

Luminaire Tested: **GALN-SA2C-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10877 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

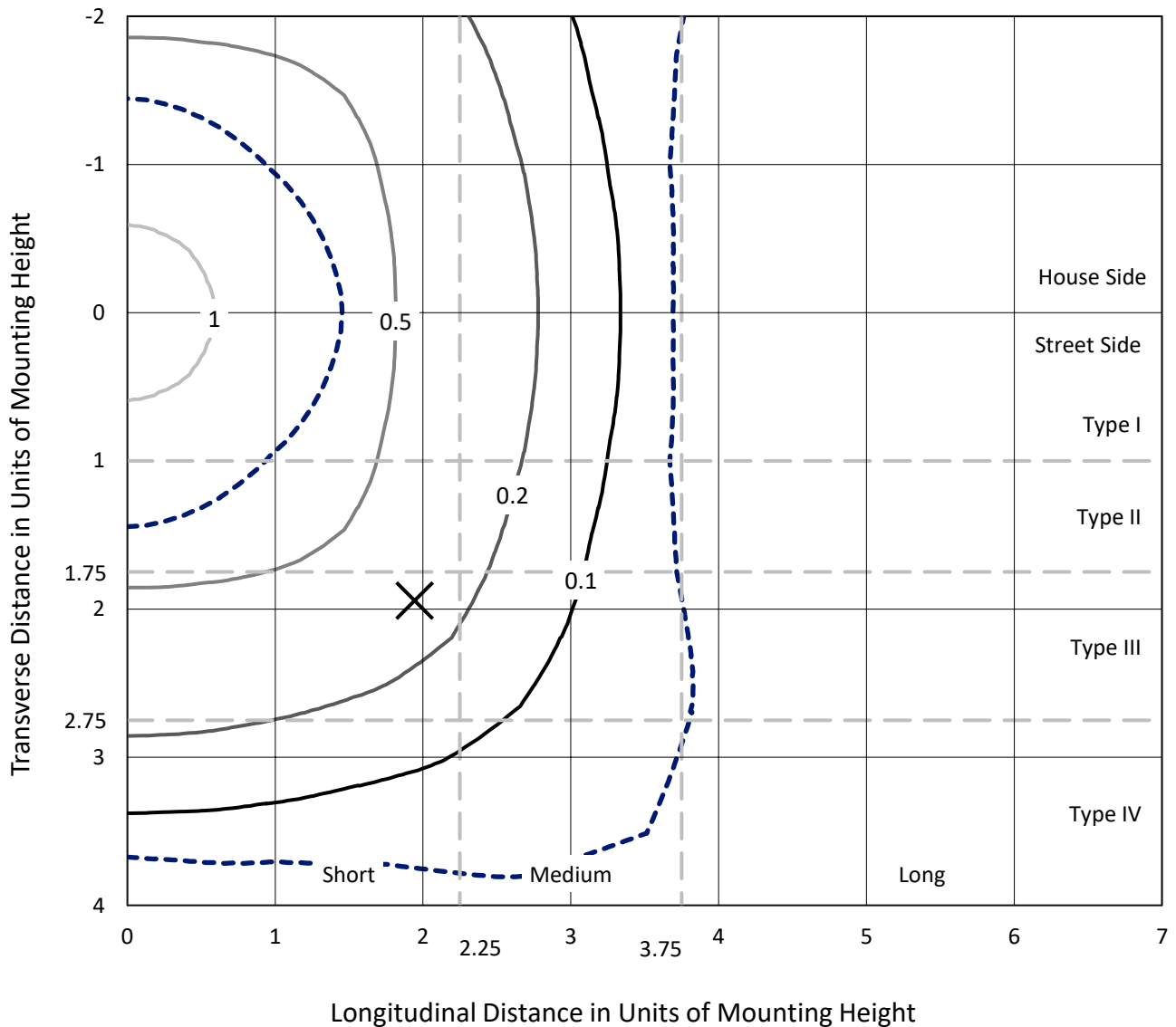
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

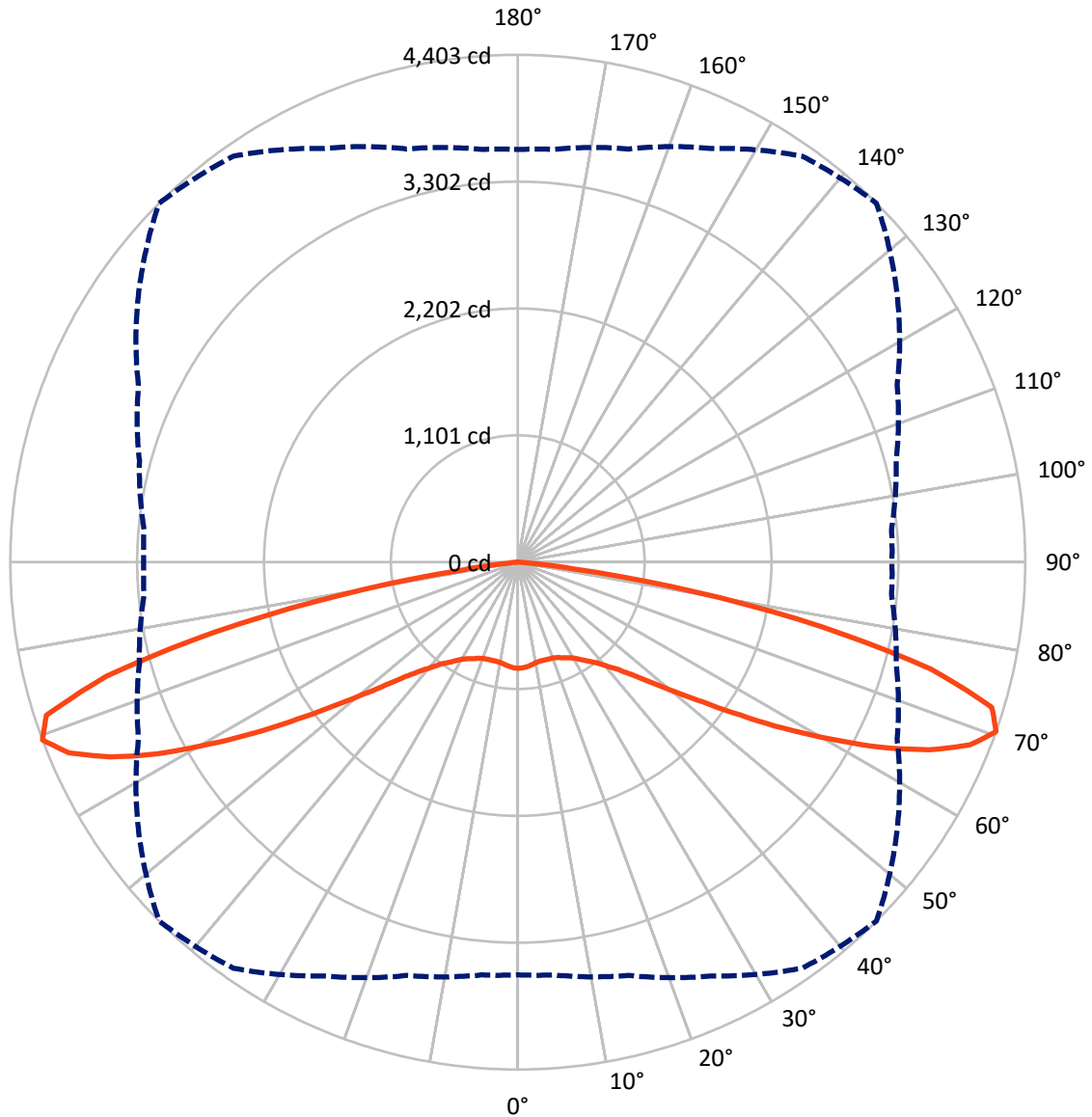
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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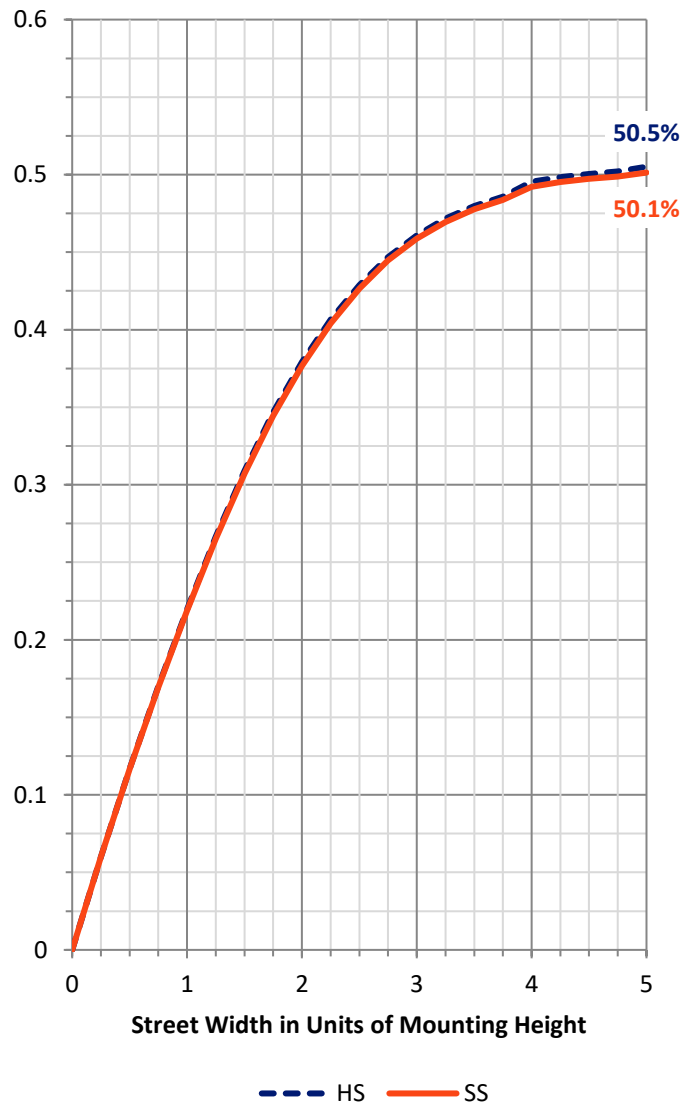
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5438.5	0.0	5438.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5438.5	0.0	5438.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10877.0	0.0	10877.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	0.8
10°-20°	252.1	2.3
20°-30°	429.6	3.9
30°-40°	665.8	6.1
40°-50°	1120.6	10.3
50°-60°	2038.9	18.7
60°-70°	3451.9	31.7
70°-80°	2671.9	24.6
80°-90°	160.1	1.5
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°	10877.0	100.0
0°-180°	10877.0	100.0



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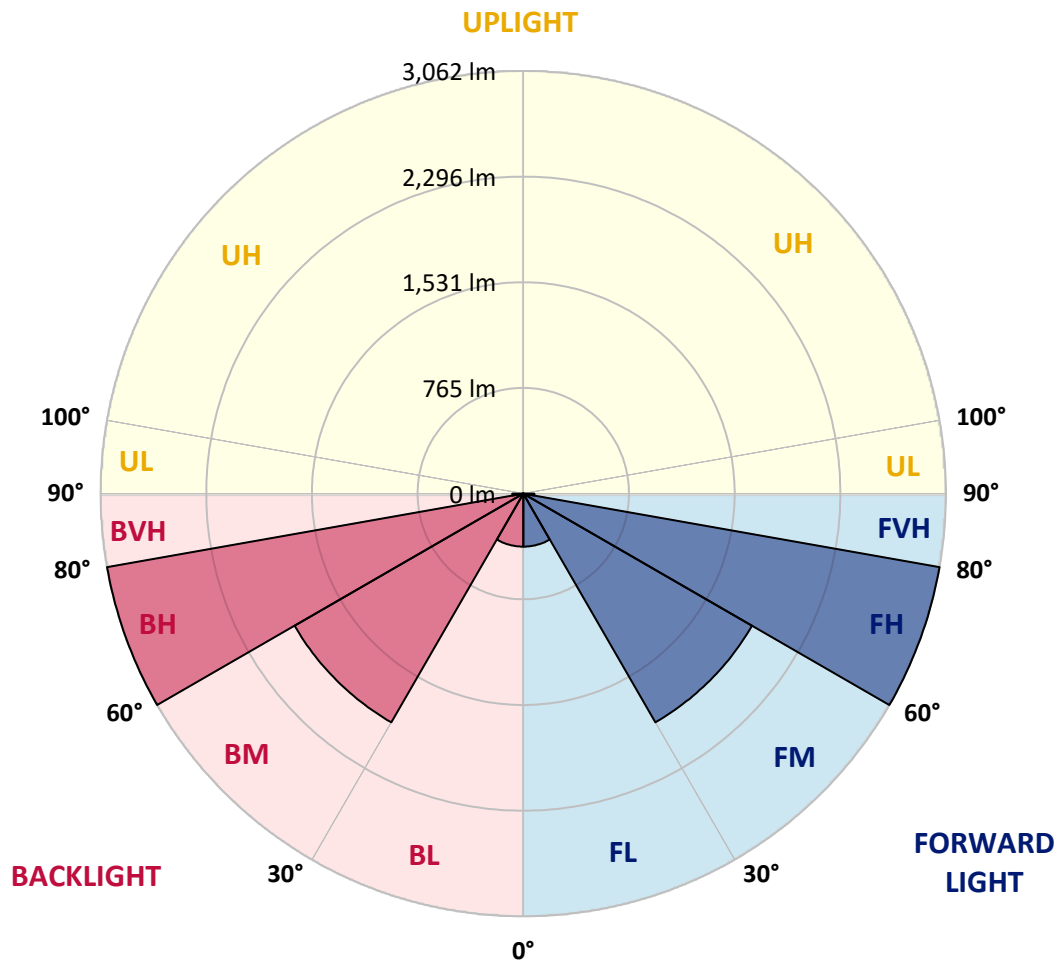
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.9	3.5			
FM (30°-60°)	1912.7	17.6			
FH (60°-80°)	3061.9	28.2			G2/5000
FVH (80°-90°)	80.1	0.7			G1/100
BL (0°-30°)	383.9	3.5	B1/500		
BM (30°-60°)	1912.7	17.6	B2/2500		
BH (60°-80°)	3061.9	28.2	B4/5000		G2/5000
BVH (80°-90°)	80.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9	920.9
2.5°	918.6	919.1	919.1	918.0	917.4	917.4	916.8	916.8	918.6	919.1	919.7
5°	910.5	910.5	910.5	910.0	908.8	908.8	907.7	907.7	908.2	910.0	908.8
7.5°	899.6	900.8	900.8	898.5	896.7	896.7	896.2	896.7	897.3	899.0	898.5
10°	896.2	896.7	893.9	889.9	887.0	885.3	885.8	887.0	889.9	891.0	891.6
12.5°	898.5	898.5	893.3	887.6	882.4	880.1	879.5	883.5	888.7	892.1	893.3
15°	901.3	900.2	893.9	886.4	881.2	880.7	880.1	883.0	890.4	897.3	897.9
17.5°	903.1	902.5	894.4	885.3	882.4	882.4	881.8	884.1	892.1	900.8	901.3
20°	908.8	907.1	897.9	888.1	885.8	887.0	885.3	888.1	896.7	907.1	909.4
22.5°	920.3	918.6	909.4	899.6	898.5	898.5	897.9	900.8	910.0	920.9	922.6
25°	934.1	932.4	923.7	916.8	918.0	920.3	919.1	919.7	927.2	936.4	939.3
27.5°	952.5	949.6	942.1	936.4	939.8	939.8	939.8	939.3	943.8	952.5	955.3
30°	974.9	973.7	965.7	965.1	968.0	965.1	965.1	965.7	966.3	974.3	977.2
32.5°	1004.2	1001.9	997.8	996.7	1004.7	1007.0	999.0	991.5	995.6	1003.6	1005.3
35°	1052.4	1049.0	1043.2	1036.9	1043.2	1054.1	1036.9	1031.2	1041.5	1052.4	1053.6
37.5°	1117.9	1116.2	1107.0	1095.5	1094.9	1106.4	1088.6	1088.0	1107.6	1120.8	1122.5
40°	1200.1	1201.8	1190.3	1179.4	1173.6	1182.8	1169.0	1174.2	1193.2	1208.1	1207.0
42.5°	1315.5	1309.2	1291.4	1281.1	1274.7	1271.3	1267.8	1275.9	1297.1	1313.2	1325.9
45°	1450.5	1448.2	1425.8	1413.2	1399.4	1394.2	1393.1	1407.4	1433.3	1452.8	1454.6
47.5°	1603.3	1598.2	1583.8	1570.6	1565.4	1559.1	1553.4	1564.3	1590.1	1603.9	1607.9
50°	1760.7	1761.9	1761.9	1759.6	1764.8	1765.9	1750.4	1754.4	1768.8	1767.6	1766.5
52.5°	1940.6	1946.9	1976.7	1979.6	2004.3	2021.0	1992.8	1976.2	1971.0	1940.0	1942.3
55°	2152.0	2157.7	2202.5	2247.3	2314.0	2342.1	2282.9	2231.2	2194.5	2147.4	2149.7
57.5°	2415.6	2418.5	2461.0	2547.2	2652.9	2719.0	2615.0	2512.7	2438.0	2393.2	2375.4
60°	2699.4	2702.3	2764.3	2869.5	3033.8	3114.2	2985.5	2818.3	2724.1	2655.8	2660.4
62.5°	3040.1	3051.6	3107.3	3252.1	3451.4	3541.6	3371.0	3147.5	3020.0	2935.0	2938.4
65°	3404.9	3424.4	3485.3	3644.4	3828.3	3925.3	3716.2	3458.3	3299.7	3195.8	3206.7
67.5°	3641.5	3658.8	3746.7	3922.5	4151.7	4232.1	3962.1	3661.7	3463.5	3339.4	3316.4
70°	3581.2	3595.6	3712.8	3962.1	4301.6	4403.3	4020.7	3631.8	3398.5	3255.5	3246.3
72.5°	3161.3	3131.4	3302.6	3660.5	4130.4	4301.0	3836.3	3317.0	3023.4	2876.4	2859.1
75°	2095.1	2160.0	2412.8	2834.4	3494.5	3705.9	3274.5	2663.2	2293.8	2171.5	2152.5
77.5°	700.3	750.3	974.9	1606.8	2382.3	2700.0	2385.8	1741.8	1232.2	992.7	997.3
80°	185.6	183.3	237.3	441.8	1029.4	1563.7	1198.3	590.0	322.9	233.8	221.7
82.5°	66.6	74.7	95.9	122.4	272.9	486.0	343.0	165.4	121.2	89.6	86.7
85°	29.3	28.7	41.4	48.8	68.4	90.8	80.4	70.1	61.5	40.8	37.9
87.5°	6.3	6.3	9.8	7.5	12.1	12.1	14.9	17.8	18.4	12.1	9.8
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)