

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: P529945

Luminaire Tested: **GALN-SA5A-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529945
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-SA5A-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 10880 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

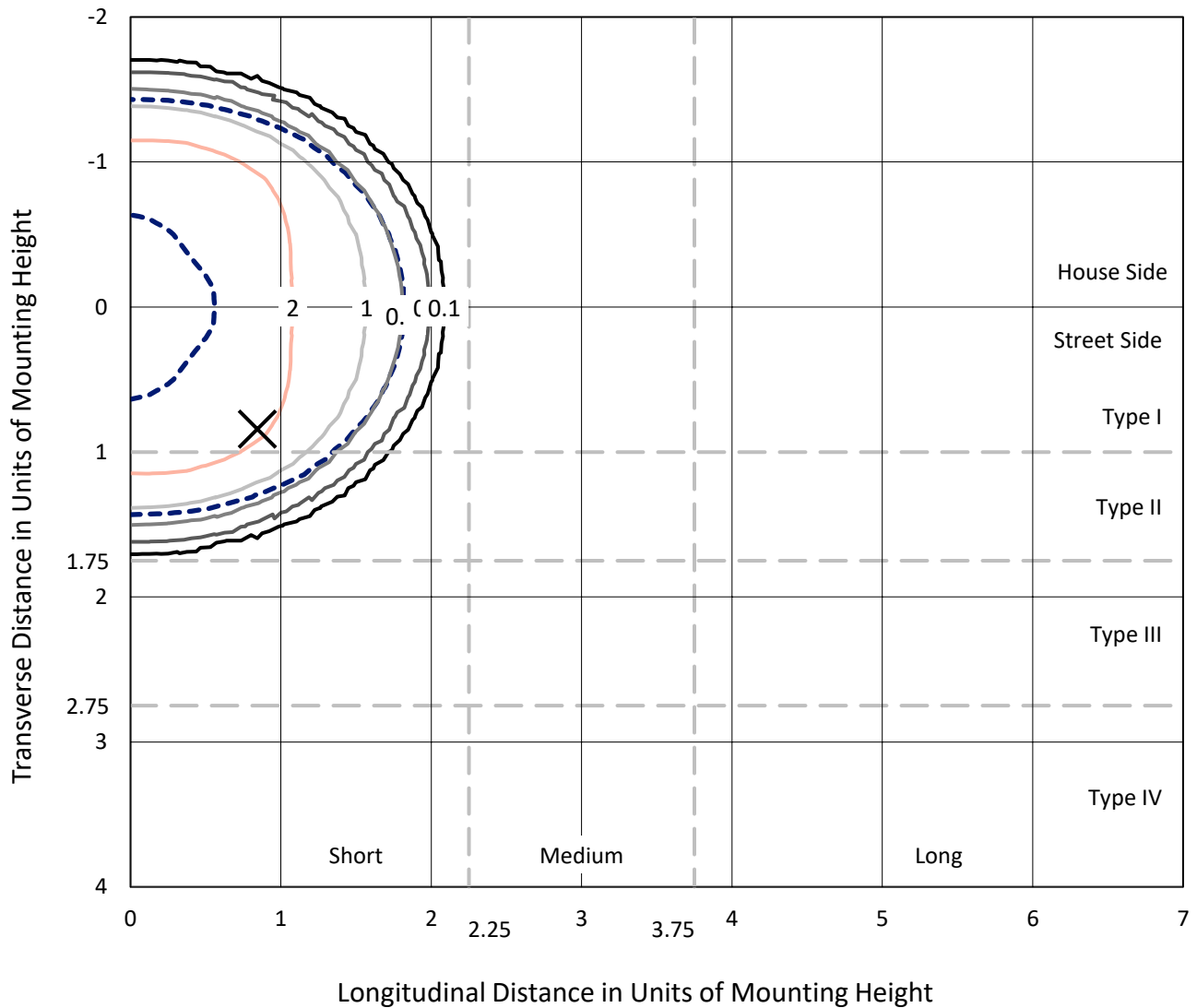
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529945
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Iso-Footcandle Lines of Horizontal Illumination

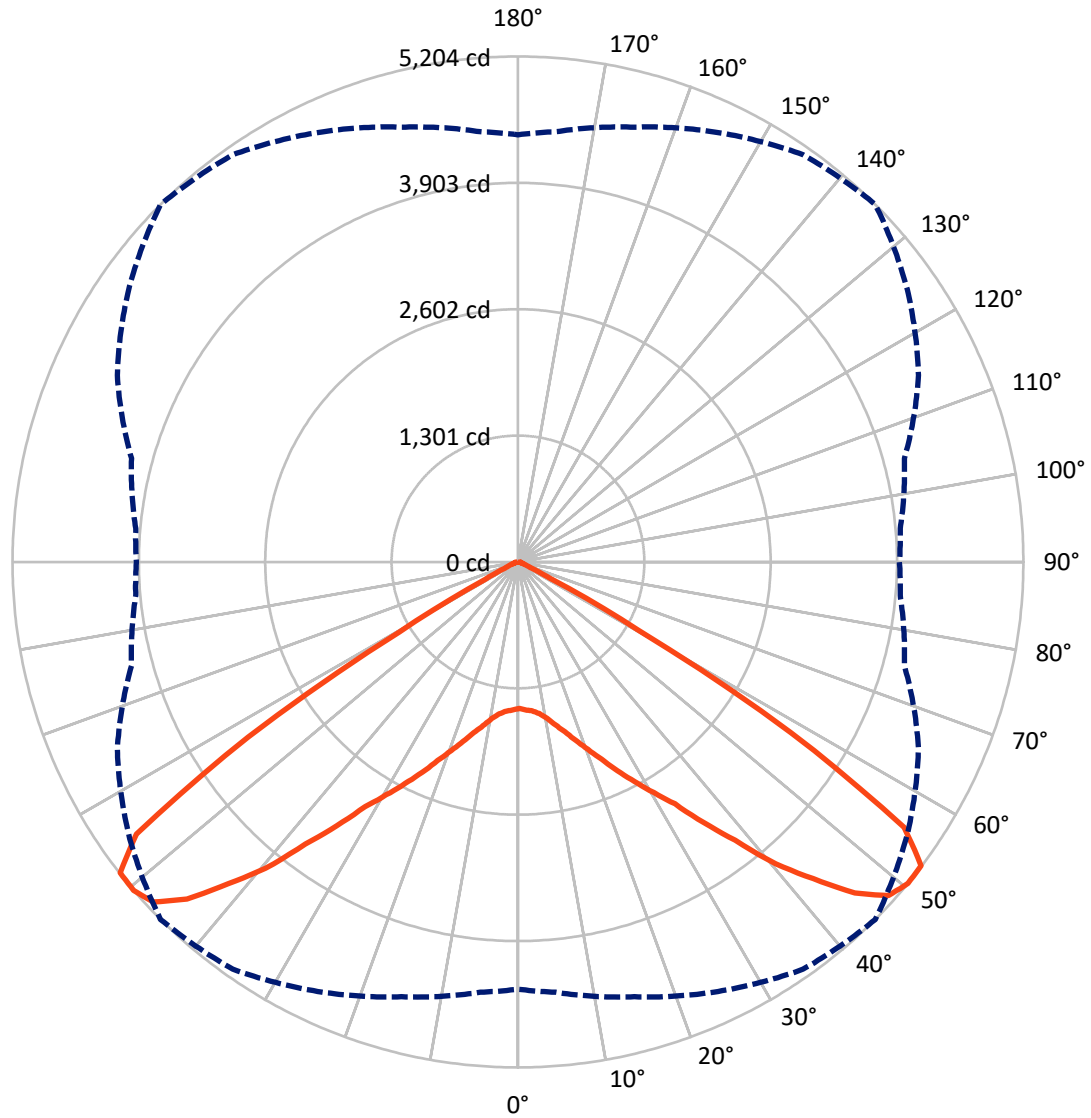
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P529945
CATALOG NUMBER: GALN-SA5A-827-U-RW-GRSBK

Luminous Intensity Polar Plot



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

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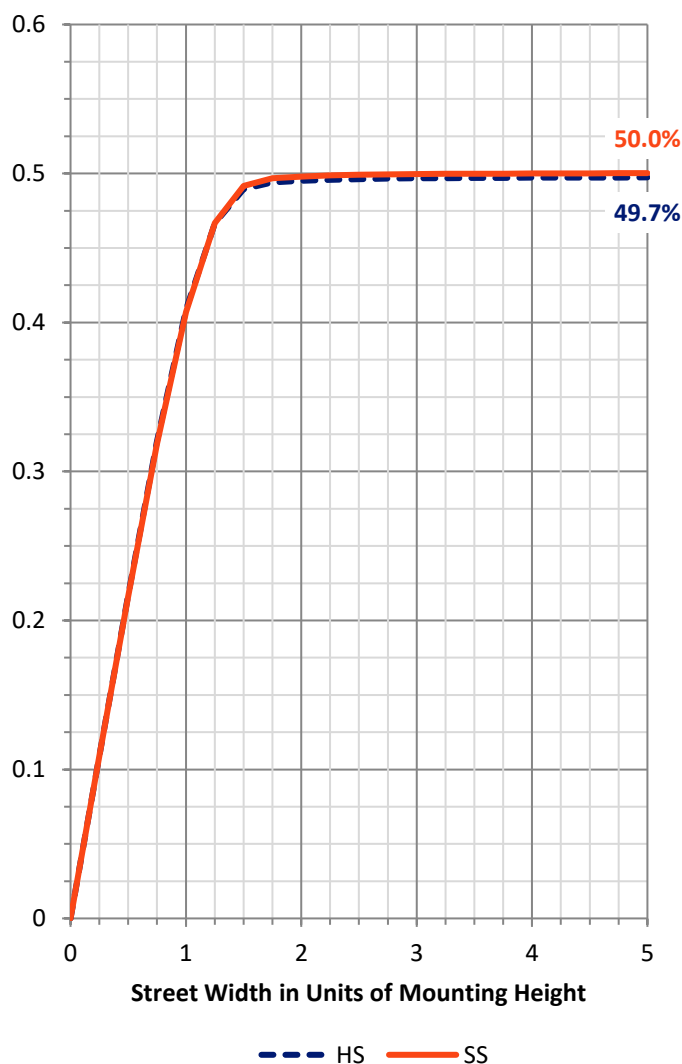
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5440.0	0.0	5440.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5440.0	0.0	5440.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10880.0	0.0	10880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.4
10°-20°	517.2	4.8
20°-30°	1056.3	9.7
30°-40°	2014.4	18.5
40°-50°	3394.6	31.2
50°-60°	3237.3	29.8
60°-70°	451.9	4.2
70°-80°	43.2	0.4
80°-90°	14.9	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°	10880.0	100.0
0°-180°	10880.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529945

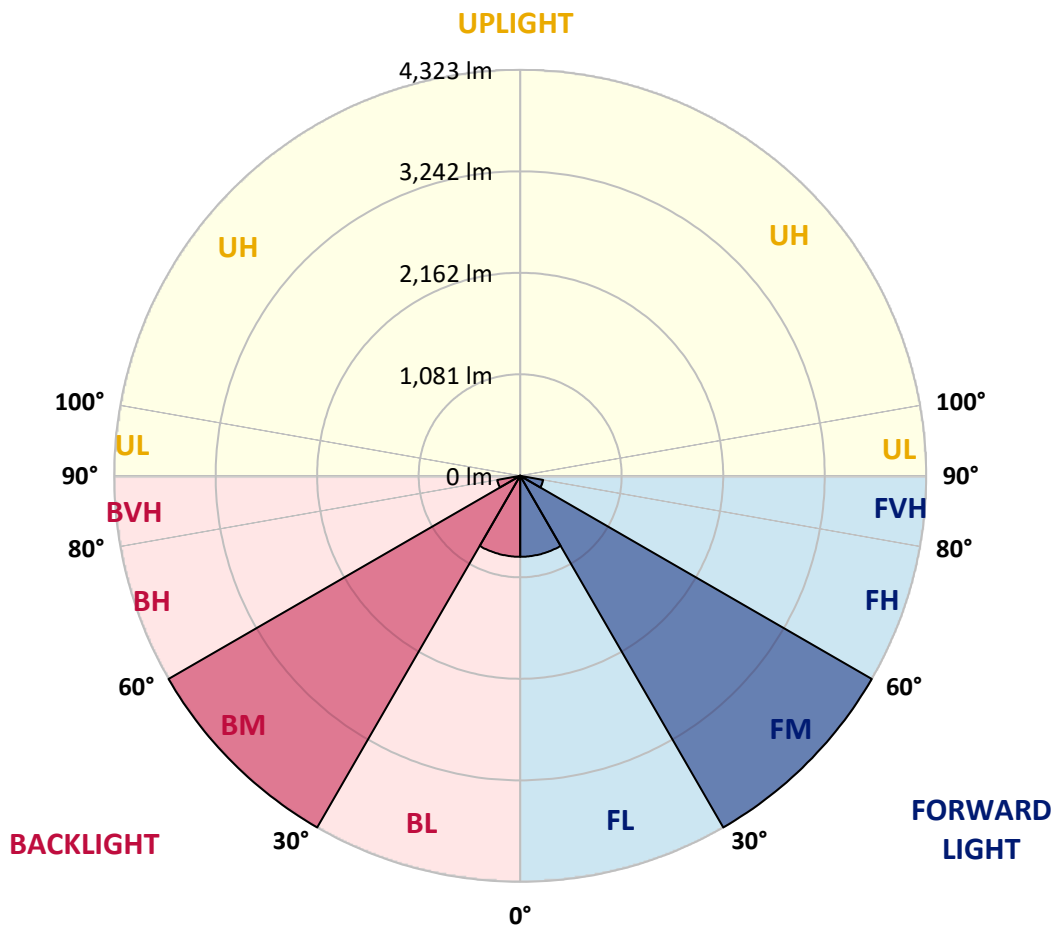
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.8	7.9			
FM (30°-60°)	4323.2	39.7			
FH (60°-80°)	247.6	2.3			G0/660
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	861.8	7.9	B2/1000		
BM (30°-60°)	4323.2	39.7	B3/5000		
BH (60°-80°)	247.6	2.3	B1/500		G0/660
BVH (80°-90°)	7.5	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°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1502.9	1502.9	1501.1	1515.7	1508.4	1524.9	1523.0	1528.5	1534.0	1532.2	1546.8
5°	1490.1	1488.3	1488.3	1504.7	1521.2	1539.5	1556.0	1567.0	1585.3	1585.3	1603.6
7.5°	1502.9	1493.7	1506.6	1513.9	1545.0	1576.1	1603.6	1625.5	1667.7	1682.3	1676.8
10°	1506.6	1517.5	1526.7	1548.7	1587.1	1634.7	1658.5	1713.4	1761.0	1794.0	1801.3
12.5°	1530.4	1546.8	1572.5	1625.5	1660.3	1722.6	1755.5	1808.6	1874.5	1911.1	1936.7
15°	1576.1	1581.6	1614.6	1682.3	1757.4	1814.1	1865.4	1903.8	1967.9	2010.0	2011.8
17.5°	1634.7	1658.5	1704.3	1768.3	1847.0	1931.3	1971.5	2013.6	2037.4	2094.2	2107.0
20°	1751.9	1755.5	1799.5	1883.7	1982.5	2059.4	2088.7	2110.7	2101.5	2160.1	2171.1
22.5°	1861.7	1865.4	1920.3	2033.8	2139.9	2205.8	2218.7	2205.8	2178.4	2220.5	2224.1
25°	1973.4	2006.3	2046.6	2160.1	2291.9	2379.7	2381.6	2346.8	2290.0	2297.4	2315.7
27.5°	2147.3	2171.1	2213.2	2317.5	2462.1	2561.0	2544.5	2502.4	2429.2	2434.7	2429.2
30°	2350.5	2372.4	2407.2	2540.8	2647.0	2755.0	2778.8	2738.5	2628.7	2604.9	2632.4
32.5°	2595.8	2626.9	2690.9	2813.6	2903.3	2969.2	2985.7	2971.0	2868.5	2859.4	2877.7
35°	2894.1	2936.2	2994.8	3102.8	3176.0	3295.0	3295.0	3245.6	3152.2	3163.2	3161.4
37.5°	3209.0	3271.2	3362.8	3472.6	3571.4	3635.5	3615.4	3573.3	3479.9	3456.1	3479.9
40°	3604.4	3635.5	3750.8	3893.6	4014.4	4087.7	4001.6	3910.1	3686.8	3721.6	3785.6
42.5°	3965.0	4014.4	4102.3	4259.7	4397.0	4457.4	4354.9	4173.7	3904.6	3877.2	3924.7
45°	4272.6	4325.6	4441.0	4666.1	4810.7	4863.8	4636.8	4344.0	4036.4	3966.9	3987.0
47.5°	4477.6	4505.0	4666.1	4880.3	5012.1	5132.9	4807.1	4461.1	4098.7	3966.9	3959.5
50°	4398.9	4446.5	4635.0	4878.5	5118.3	5204.3	4893.1	4550.8	4118.8	3950.4	3928.4
52.5°	3906.4	3988.8	4199.3	4527.0	4889.5	5197.0	5012.1	4521.5	4111.5	3966.9	3999.8
55°	2718.4	2720.2	2976.5	3459.8	4100.5	4825.4	4838.2	4554.5	4159.1	4069.4	4071.2
57.5°	1092.9	1147.8	1343.6	1828.7	2420.0	3313.3	3939.4	4225.0	4164.6	4142.6	4199.3
60°	276.4	278.2	338.7	516.2	851.2	1420.5	2063.1	2791.6	3214.5	3359.1	3379.2
62.5°	141.0	142.8	157.4	183.1	232.5	380.8	677.3	1074.5	1528.5	1759.2	1819.6
65°	115.3	115.3	124.5	137.3	139.1	146.4	175.7	250.8	364.3	413.7	419.2
67.5°	87.9	87.9	95.2	102.5	106.2	104.3	100.7	104.3	126.3	120.8	117.2
70°	54.9	56.7	60.4	67.7	71.4	73.2	75.1	78.7	89.7	93.4	89.7
72.5°	33.0	33.0	34.8	40.3	45.8	49.4	54.9	58.6	64.1	73.2	71.4
75°	14.6	14.6	18.3	23.8	29.3	34.8	40.3	45.8	49.4	54.9	56.7
77.5°	3.7	5.5	9.2	16.5	22.0	29.3	36.6	42.1	45.8	45.8	43.9
80°	1.8	1.8	7.3	12.8	23.8	31.1	40.3	43.9	49.4	45.8	40.3
82.5°	1.8	1.8	7.3	12.8	22.0	31.1	42.1	47.6	51.3	45.8	38.4
85°	0.0	1.8	5.5	11.0	18.3	22.0	18.3	12.8	7.3	7.3	5.5
87.5°	0.0	0.0	1.8	1.8	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)