

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: P451728

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10846 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

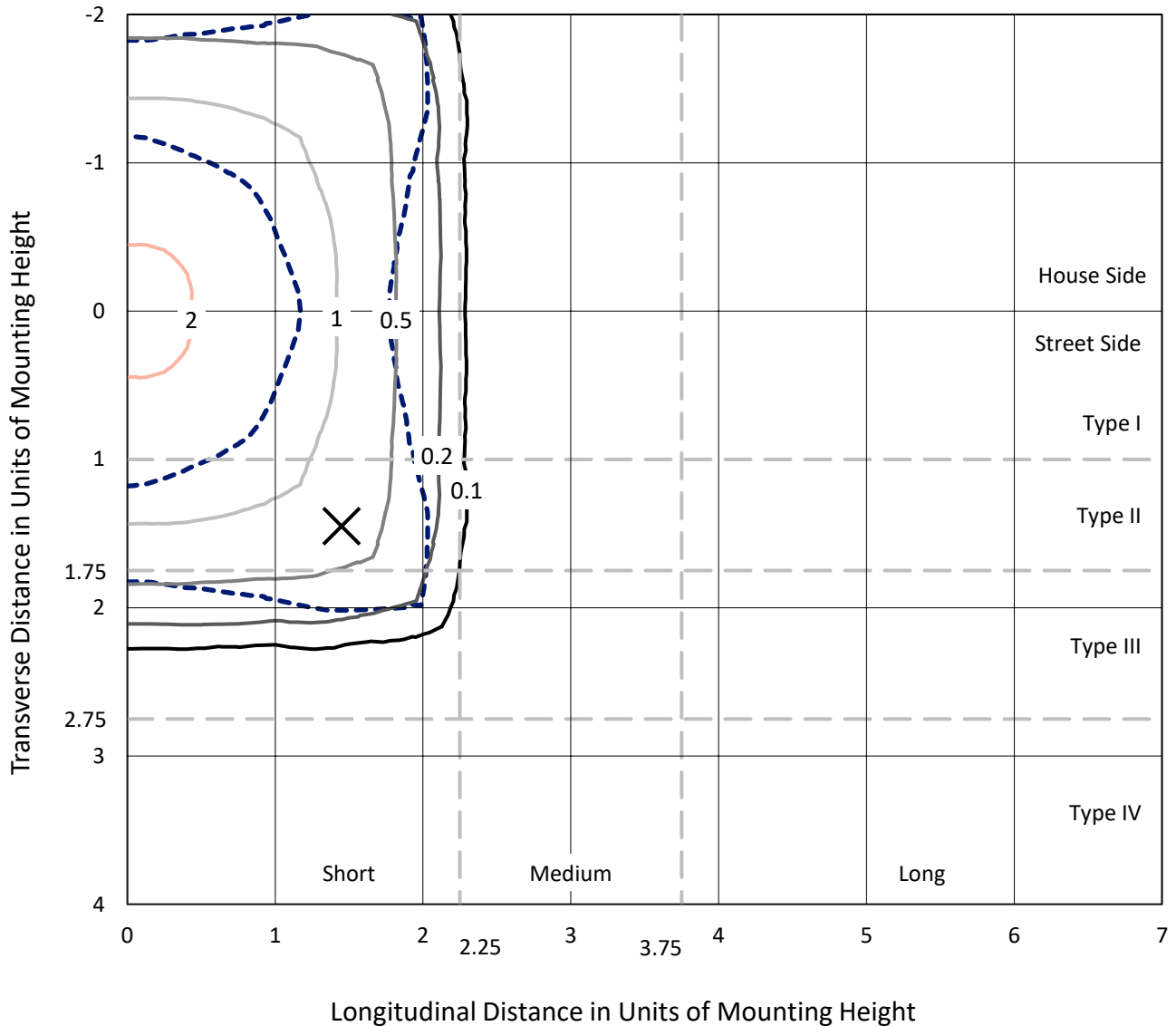
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

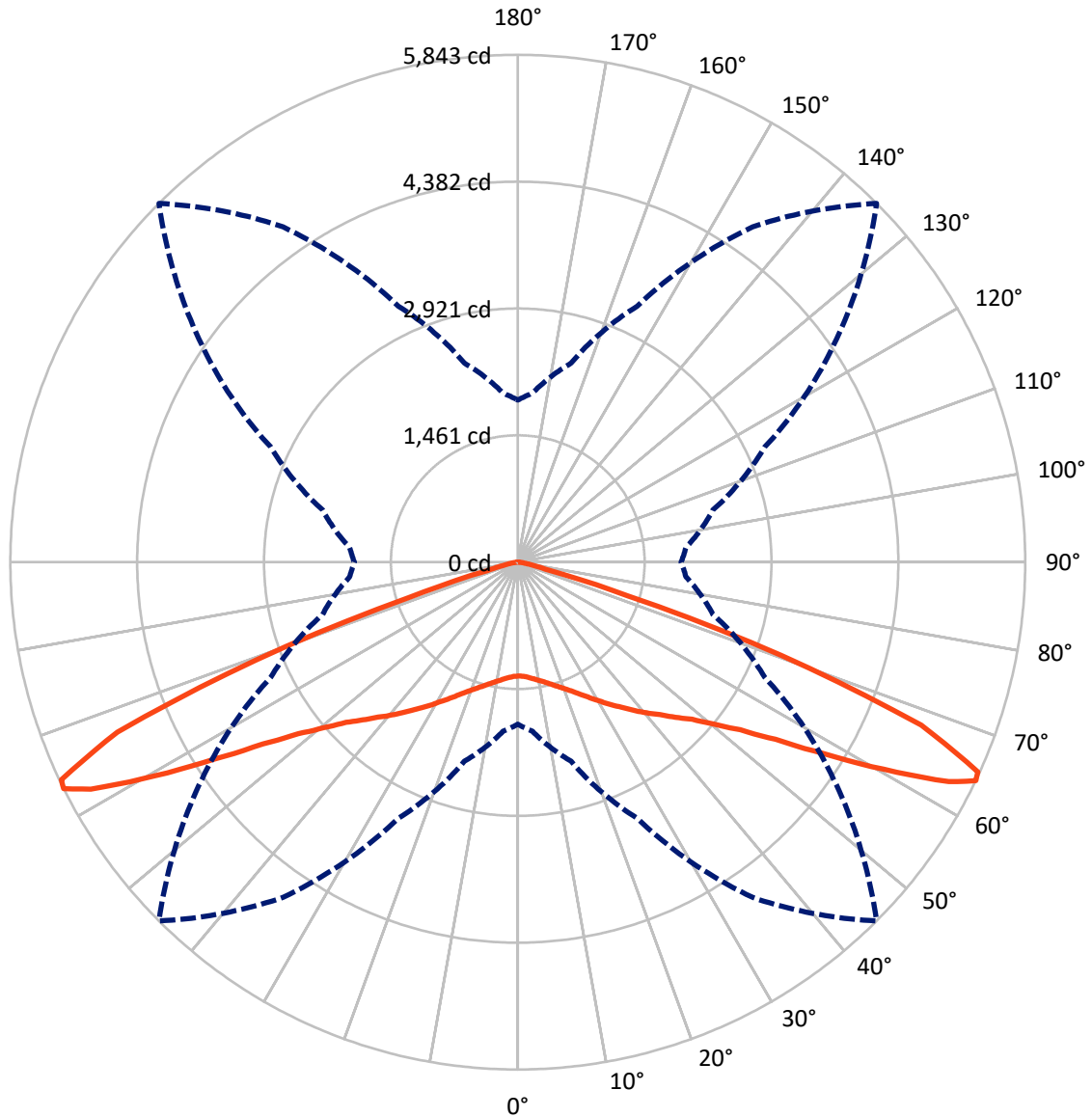
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5423.0	0.0	5423.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5423.0	0.0	5423.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10846.0	0.0	10846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.2
10°-20°	415.4	3.8
20°-30°	785.0	7.2
30°-40°	1300.1	12.0
40°-50°	2029.7	18.7
50°-60°	3137.9	28.9
60°-70°	2705.7	24.9
70°-80°	306.6	2.8
80°-90°	36.7	0.3
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°	10846.0	100.0
0°-180°	10846.0	100.0

Coefficient of Utilization



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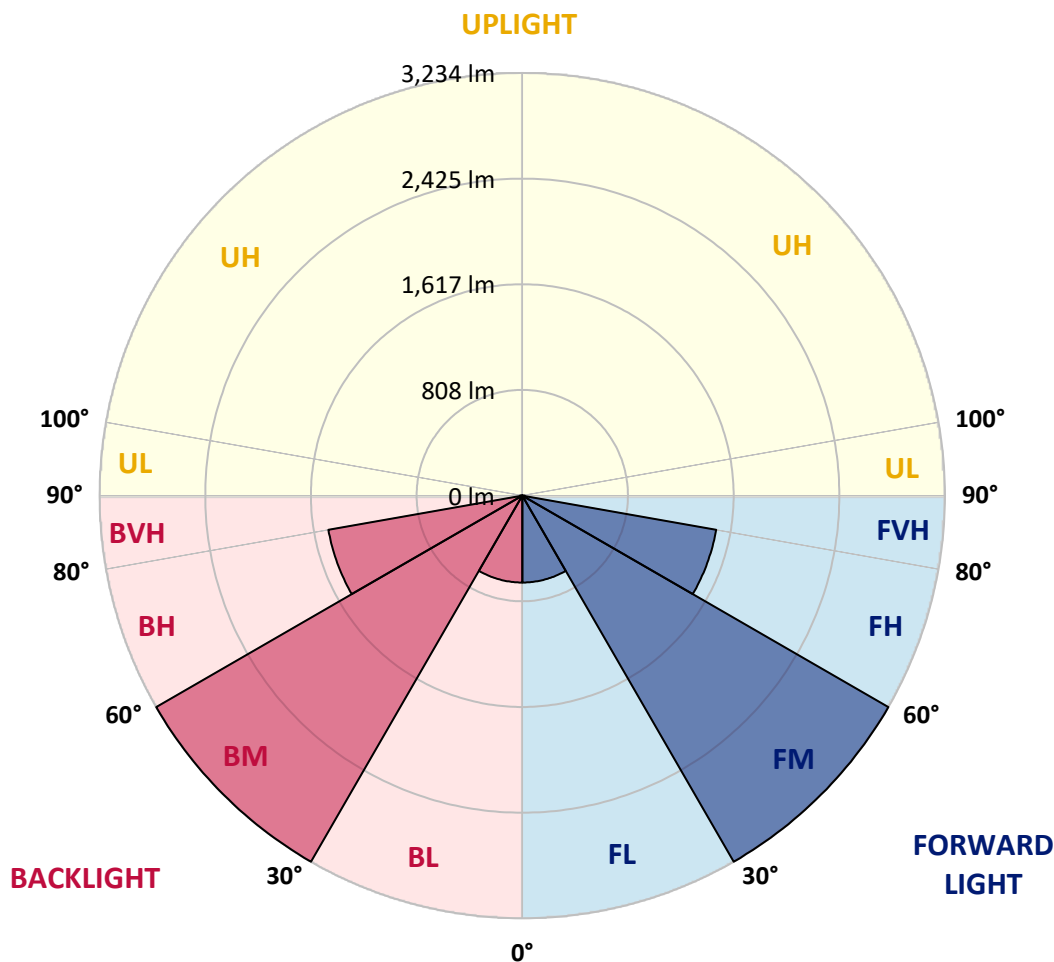
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.6	6.1			
FM	(30°-60°)	3233.8	29.8			
FH	(60°-80°)	1506.2	13.9			G1/1800
FVH	(80°-90°)	18.4	0.2			G1/100
BL	(0°-30°)	664.6	6.1	B2/1000		
BM	(30°-60°)	3233.8	29.8	B3/5000		
BH	(60°-80°)	1506.2	13.9	B3/2500		G1/1800
BVH	(80°-90°)	18.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9	1310.9
2.5°	1316.1	1319.0	1316.7	1316.1	1315.5	1315.5	1315.5	1316.1	1318.4	1320.1	1319.0
5°	1332.8	1335.0	1333.9	1333.3	1332.8	1333.3	1332.2	1331.6	1333.3	1333.3	1332.8
7.5°	1353.4	1356.3	1355.2	1356.3	1356.9	1357.5	1354.6	1352.3	1351.7	1353.4	1352.3
10°	1381.6	1383.9	1384.5	1385.0	1386.2	1385.6	1382.2	1378.1	1377.6	1377.0	1376.4
12.5°	1413.2	1414.9	1415.5	1417.8	1419.5	1420.1	1416.0	1412.6	1406.9	1408.0	1405.7
15°	1448.8	1452.2	1451.7	1455.1	1459.7	1460.9	1456.8	1451.1	1445.9	1443.0	1441.3
17.5°	1492.5	1494.7	1493.6	1497.0	1502.8	1505.7	1502.2	1494.7	1489.6	1483.3	1479.8
20°	1544.2	1548.2	1549.3	1549.3	1554.5	1557.4	1552.2	1549.9	1541.9	1537.3	1534.4
22.5°	1602.7	1604.5	1607.9	1611.4	1616.5	1615.4	1613.7	1610.2	1602.7	1598.7	1594.1
25°	1668.8	1670.5	1679.2	1686.6	1688.3	1687.2	1684.9	1683.2	1676.3	1667.1	1663.6
27.5°	1745.8	1749.2	1760.7	1767.6	1767.6	1768.2	1763.6	1769.3	1754.4	1743.5	1742.3
30°	1842.3	1844.6	1854.4	1861.3	1857.8	1854.9	1853.8	1859.5	1843.4	1823.9	1819.3
32.5°	1937.7	1945.7	1954.3	1969.3	1957.2	1952.0	1950.9	1954.9	1936.5	1914.7	1908.4
35°	2039.9	2045.7	2061.7	2074.4	2063.5	2051.4	2056.6	2069.2	2047.4	2018.1	2016.9
37.5°	2153.1	2158.3	2178.9	2192.1	2184.1	2163.4	2172.0	2187.0	2165.1	2129.0	2121.5
40°	2270.8	2281.8	2307.6	2321.4	2308.2	2280.6	2296.7	2312.8	2293.3	2251.3	2234.7
42.5°	2403.0	2420.2	2457.5	2464.4	2439.2	2401.8	2430.0	2455.8	2442.0	2393.8	2387.5
45°	2557.5	2567.8	2613.8	2628.7	2593.7	2547.2	2582.2	2629.3	2619.0	2563.2	2551.2
47.5°	2730.4	2740.2	2787.9	2810.3	2766.0	2703.4	2766.6	2828.1	2821.8	2762.0	2756.3
50°	2934.9	2937.2	3003.3	3028.6	2984.3	2930.3	2986.6	3063.0	3037.8	2961.3	2960.2
52.5°	3159.0	3161.8	3245.1	3294.0	3269.3	3208.4	3275.0	3321.5	3257.2	3157.2	3149.8
55°	3353.1	3367.5	3481.2	3611.1	3645.0	3600.7	3620.8	3599.0	3440.5	3300.3	3278.5
57.5°	3432.4	3460.6	3633.5	3875.9	4096.5	4162.0	4006.9	3798.9	3513.4	3315.2	3294.0
60°	3238.8	3269.3	3537.5	3997.7	4560.7	4845.0	4409.0	3832.8	3347.4	3068.8	3035.5
62.5°	2593.7	2602.3	2997.0	3711.0	4831.2	5567.7	4578.5	3543.9	2864.3	2485.7	2472.5
64°	1866.4	1954.9	2373.1	3253.8	4712.9	5842.8	4480.8	3138.9	2326.6	1943.4	1881.4
65°	1395.9	1420.1	1913.0	2778.7	4504.4	5822.2	4291.2	2751.7	1926.7	1487.3	1418.3
67.5°	527.4	530.2	706.0	1385.0	3206.6	5009.3	3275.0	1497.0	811.7	587.1	565.8
70°	218.9	222.9	259.1	465.9	1378.1	3216.4	1579.2	540.0	297.0	240.7	237.3
72.5°	160.3	162.6	173.5	206.8	424.0	1320.7	519.3	229.2	174.1	155.7	154.0
75°	125.8	127.0	135.0	152.2	197.6	365.9	216.0	157.4	132.7	119.5	118.3
77.5°	95.9	98.8	104.6	116.0	132.7	173.5	143.0	117.8	102.3	91.3	89.6
80°	66.1	69.5	80.4	85.0	89.0	112.6	97.7	89.0	79.9	66.6	62.6
82.5°	40.8	43.1	54.0	58.0	56.3	63.2	62.6	63.8	56.9	41.4	38.5
85°	21.3	22.4	29.3	30.4	28.1	25.9	32.2	37.3	35.0	23.6	23.0
87.5°	4.6	5.2	6.3	5.7	6.3	6.3	8.0	12.1	12.6	8.0	7.5
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)