

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: P451582

Luminaire Tested: **GALN-SA2C-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12401 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

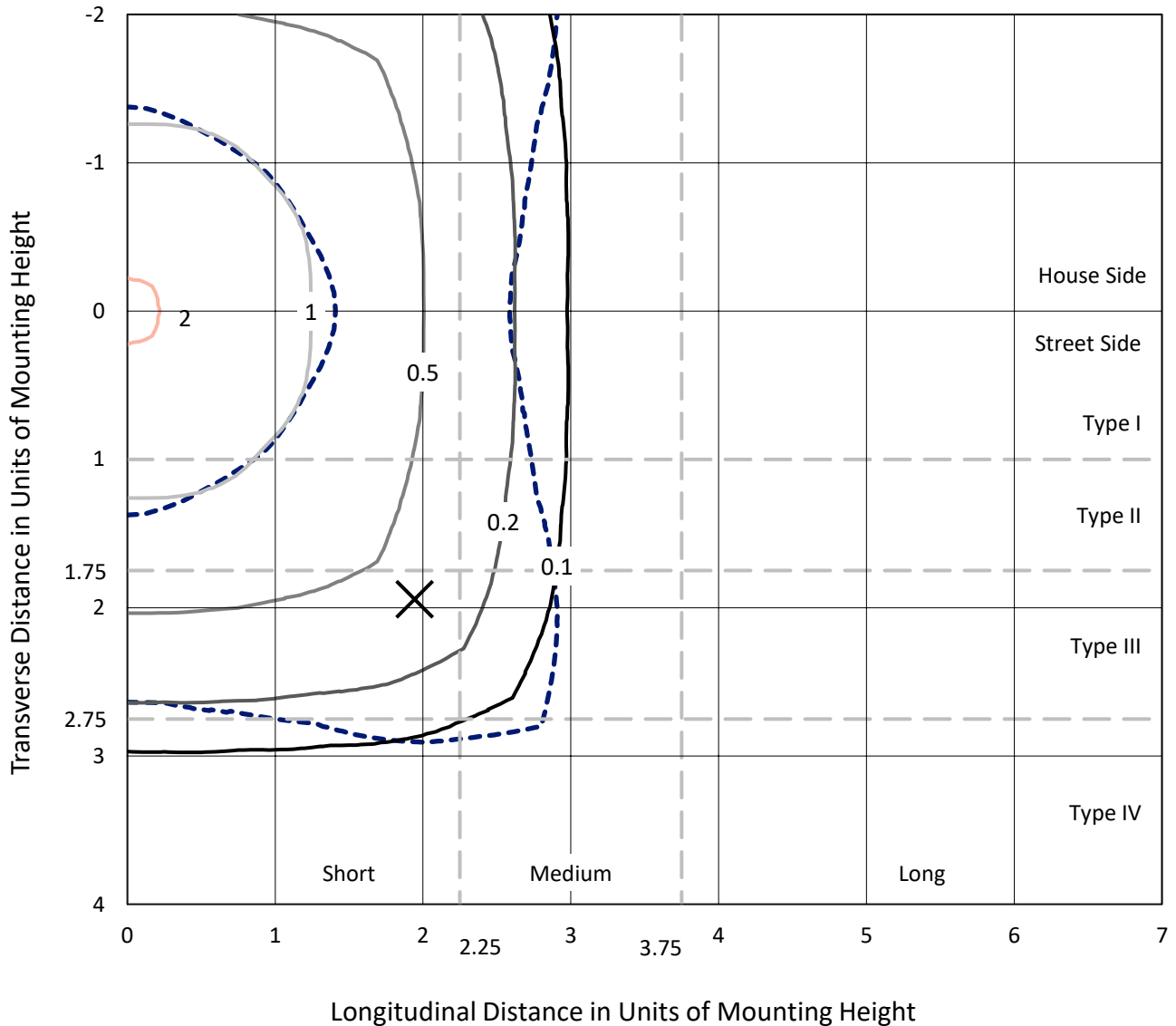
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

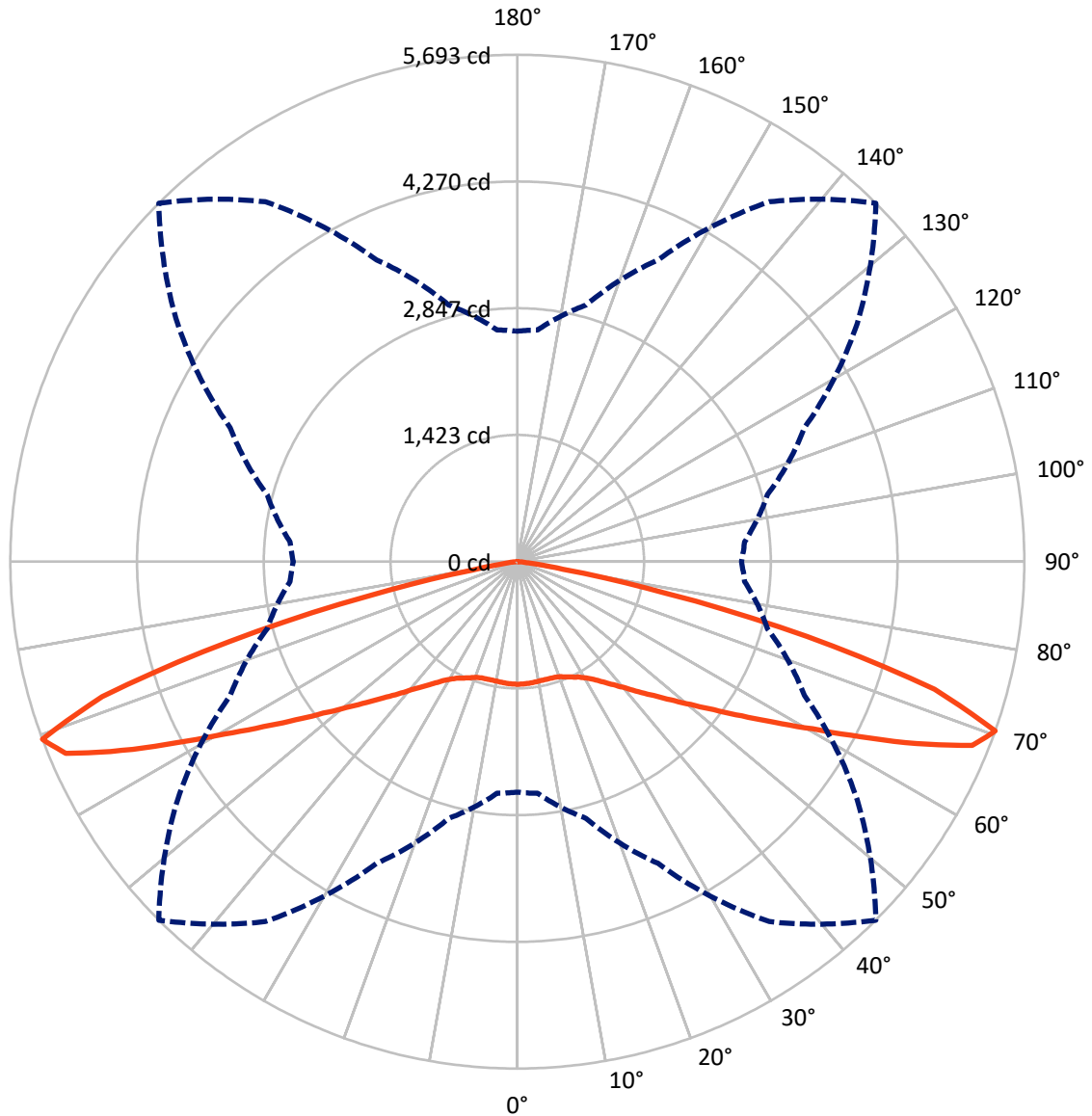
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	6200.5	0.0	6200.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6200.5	0.0	6200.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12401.0	0.0	12401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.1
10°-20°	383.2	3.1
20°-30°	655.4	5.3
30°-40°	1040.2	8.4
40°-50°	1678.2	13.5
50°-60°	2730.4	22.0
60°-70°	3958.1	31.9
70°-80°	1755.7	14.2
80°-90°	69.3	0.6
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°	12401.0	100.0
0°-180°	12401.0	100.0

Coefficient of Utilization



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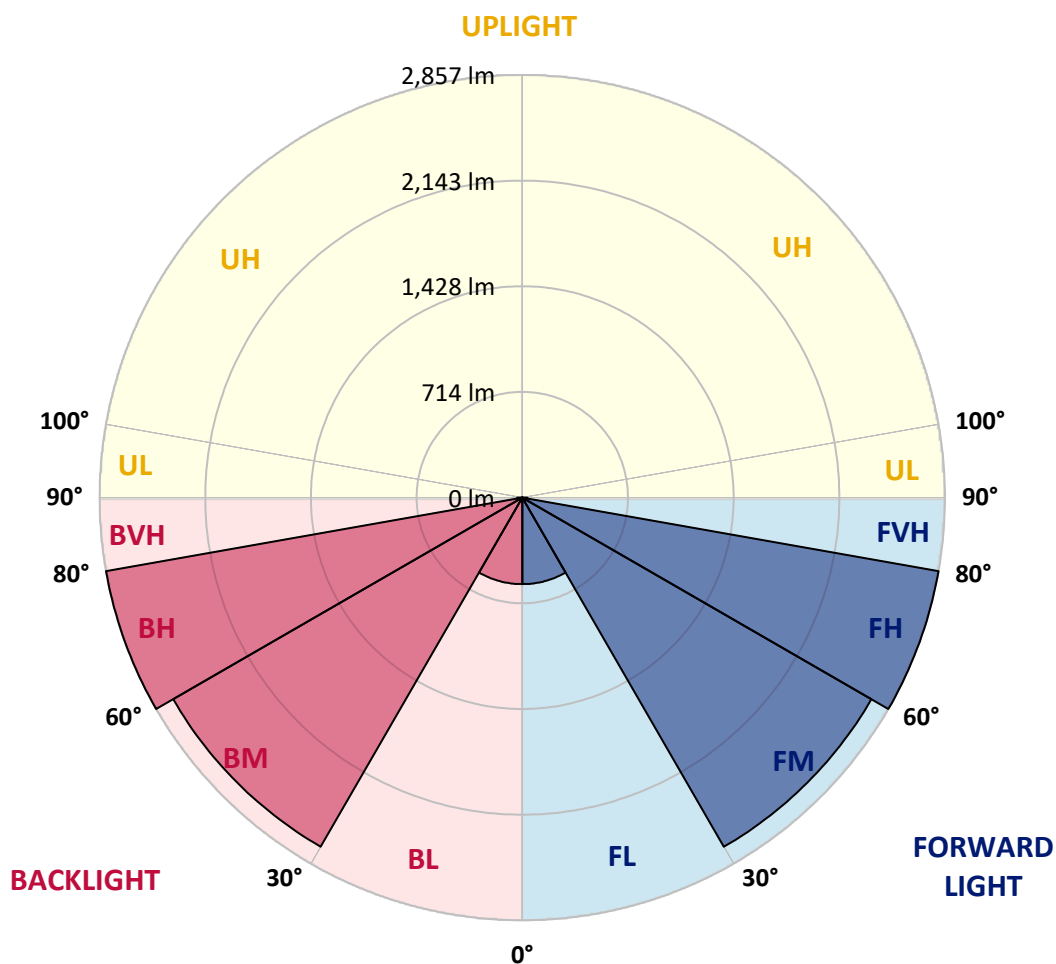
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.6	4.7			
FM (30°-60°)	2724.4	22.0			
FH (60°-80°)	2856.9	23.0			G2/5000
FVH (80°-90°)	34.6	0.3			G1/100
BL (0°-30°)	584.6	4.7	B2/1000		
BM (30°-60°)	2724.4	22.0	B3/5000		
BH (60°-80°)	2856.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	34.6	0.3			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°	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1
2.5°	1377.1	1378.4	1376.4	1375.1	1374.5	1374.5	1373.8	1374.5	1378.4	1379.0	1377.1
5°	1373.2	1374.5	1373.8	1372.5	1371.8	1371.8	1371.2	1370.5	1373.8	1375.1	1374.5
7.5°	1367.9	1368.6	1367.9	1367.3	1367.9	1367.3	1365.3	1364.0	1366.6	1366.6	1366.0
10°	1358.8	1360.1	1359.4	1360.1	1361.4	1361.4	1358.8	1356.2	1356.8	1355.5	1355.5
12.5°	1347.7	1349.6	1350.3	1352.9	1356.2	1360.1	1354.2	1348.3	1347.0	1346.4	1345.7
15°	1340.5	1342.4	1345.0	1347.7	1353.5	1362.0	1353.5	1344.4	1341.8	1339.2	1337.9
17.5°	1338.5	1341.1	1345.0	1349.0	1356.8	1365.3	1358.1	1349.0	1342.4	1338.5	1337.2
20°	1343.7	1345.7	1351.6	1358.8	1369.9	1378.4	1371.2	1361.4	1351.6	1345.7	1343.7
22.5°	1354.2	1357.5	1364.7	1377.7	1393.4	1405.8	1396.0	1379.7	1364.0	1356.2	1353.5
25°	1377.1	1379.7	1388.2	1405.8	1424.1	1435.9	1425.4	1406.5	1384.9	1374.5	1371.2
27.5°	1411.7	1415.6	1424.8	1445.7	1460.7	1467.3	1460.1	1447.0	1431.3	1420.2	1417.6
30°	1460.7	1465.3	1479.0	1501.3	1511.1	1515.0	1511.7	1503.2	1492.1	1480.3	1477.7
32.5°	1526.7	1529.4	1545.0	1566.0	1575.1	1576.4	1572.5	1568.6	1550.3	1530.7	1529.4
35°	1600.6	1605.2	1624.1	1649.0	1657.5	1658.1	1650.3	1644.4	1622.8	1607.1	1607.1
37.5°	1698.6	1700.6	1718.9	1747.0	1756.1	1753.5	1749.6	1744.4	1721.5	1701.2	1701.9
40°	1813.7	1817.6	1833.3	1865.9	1865.9	1862.7	1865.3	1861.4	1838.5	1818.9	1819.5
42.5°	1950.3	1952.2	1971.2	2005.8	2003.2	1996.7	1999.3	1994.0	1979.7	1957.4	1949.6
45°	2096.0	2103.8	2136.5	2169.9	2164.6	2143.7	2154.2	2152.9	2139.8	2106.5	2108.4
47.5°	2271.8	2284.9	2316.3	2356.1	2350.2	2317.6	2329.3	2337.2	2318.9	2282.3	2275.7
50°	2469.8	2478.3	2524.7	2562.0	2556.8	2522.1	2548.9	2550.2	2504.5	2452.8	2452.8
52.5°	2680.9	2689.4	2752.2	2810.4	2813.6	2763.3	2784.9	2783.6	2709.0	2641.1	2628.0
55°	2917.5	2921.5	3002.5	3088.1	3106.4	3057.4	3060.0	3033.9	2937.1	2858.1	2850.9
57.5°	3162.0	3176.4	3265.9	3377.0	3431.2	3401.2	3387.5	3317.5	3224.1	3133.2	3128.6
60°	3432.6	3433.2	3549.5	3680.9	3790.7	3811.0	3754.8	3661.3	3540.4	3420.1	3414.9
62.5°	3620.1	3648.2	3795.3	4017.5	4214.2	4327.9	4179.6	3983.5	3745.6	3551.5	3531.9
65°	3658.7	3677.6	3901.8	4278.3	4680.2	4925.3	4582.2	4165.2	3759.3	3500.5	3487.5
67.5°	3346.9	3367.2	3669.1	4246.9	5007.0	5509.6	4843.6	4077.6	3526.7	3206.4	3180.9
70°	2588.8	2611.7	2984.9	3738.4	4934.5	5693.3	4657.3	3556.7	2908.4	2562.6	2516.2
72.5°	1376.4	1460.7	1779.7	2565.9	4005.1	4901.8	3818.8	2595.3	1875.7	1533.3	1471.8
75°	502.6	513.1	690.8	1137.9	2330.0	3361.3	2419.5	1237.9	711.7	549.7	521.5
77.5°	207.8	207.2	227.4	343.8	846.4	1721.5	944.4	363.4	226.8	209.8	207.2
80°	122.9	122.9	135.3	143.1	222.9	519.6	249.0	162.1	135.9	124.2	126.1
82.5°	54.9	58.2	85.6	90.2	107.8	142.5	120.3	103.3	88.9	61.4	55.6
85°	30.1	26.1	45.1	47.1	51.6	52.9	56.9	56.2	51.6	30.1	30.7
87.5°	5.9	7.2	13.1	9.8	11.1	9.8	13.1	18.3	19.0	10.5	8.5
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)