

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: P647255

Luminaire Tested: **GALN-SA2D-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647255
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-SA2D-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12775.4 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

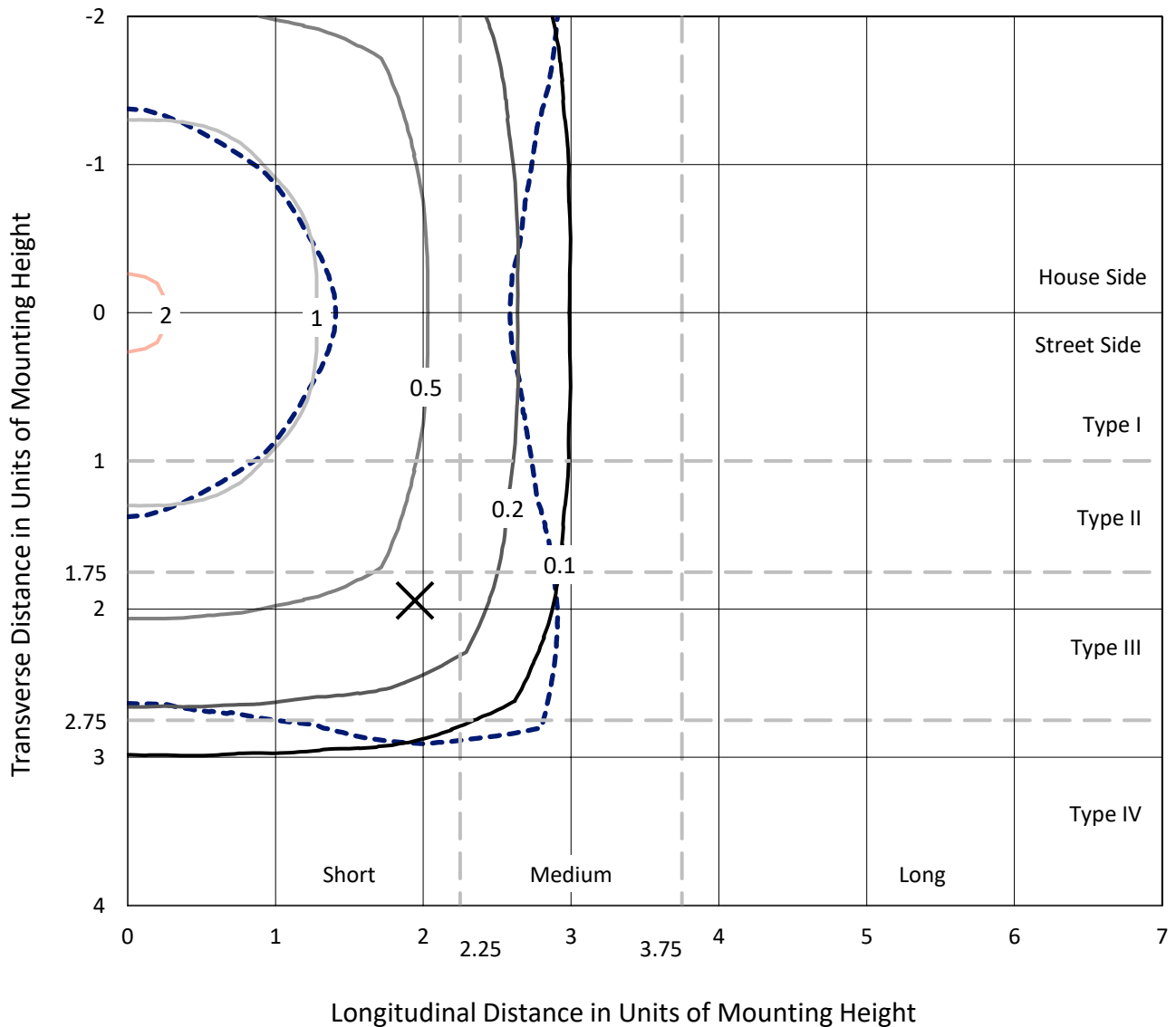
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

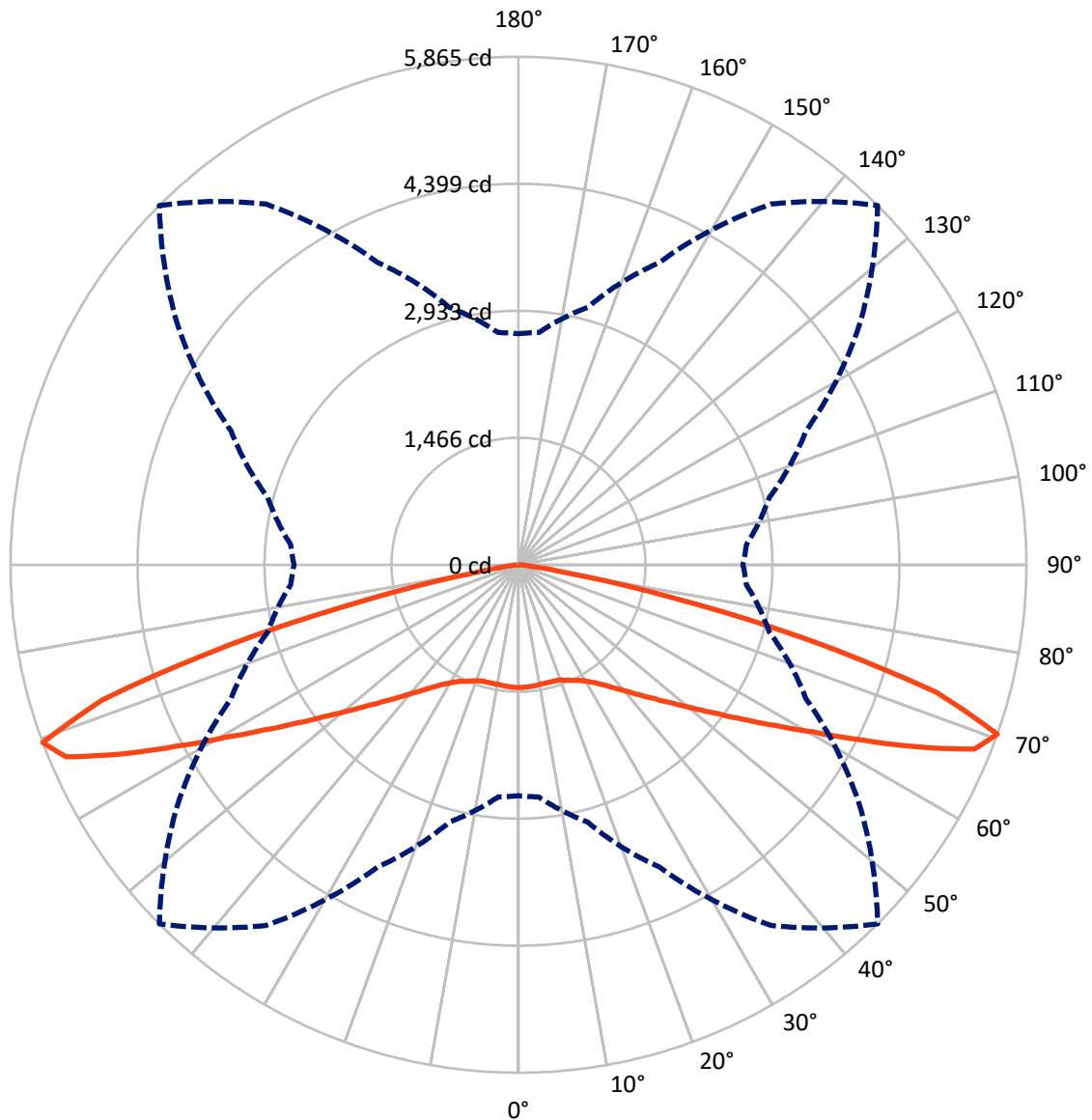
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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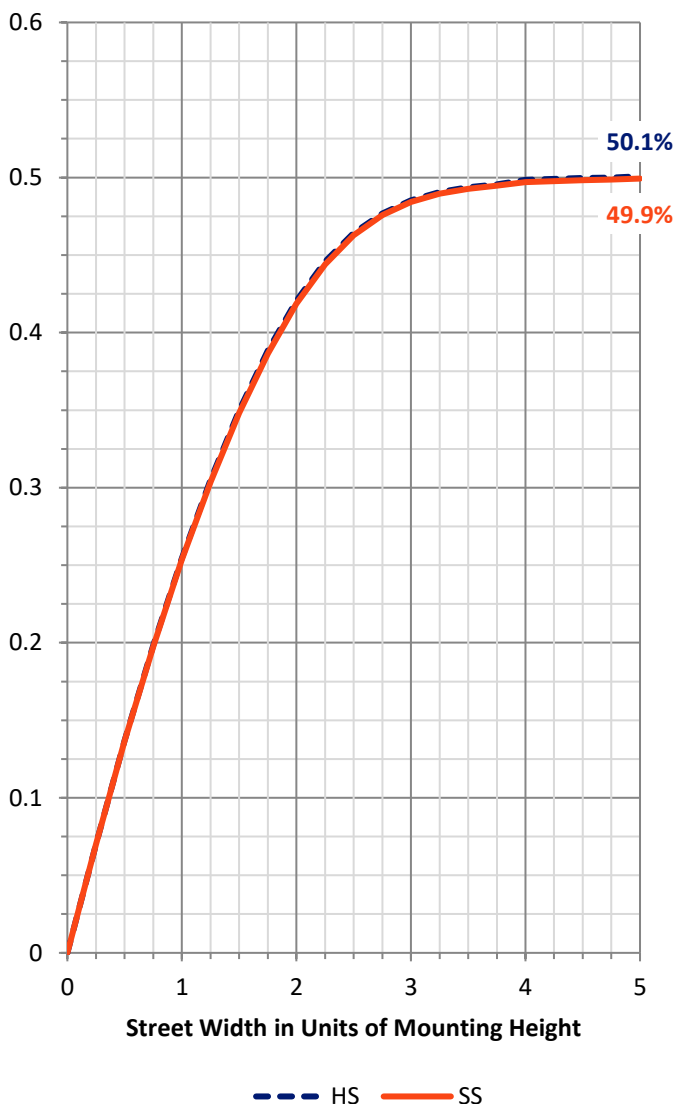
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6387.7	0.0	6387.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6387.7	0.0	6387.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12775.4	0.0	12775.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.1
10°-20°	394.8	3.1
20°-30°	675.2	5.3
30°-40°	1071.6	8.4
40°-50°	1728.8	13.5
50°-60°	2812.8	22.0
60°-70°	4077.6	31.9
70°-80°	1808.7	14.2
80°-90°	71.3	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°	12775.4	100.0
0°-180°	12775.4	100.0

Coefficient of Utilization



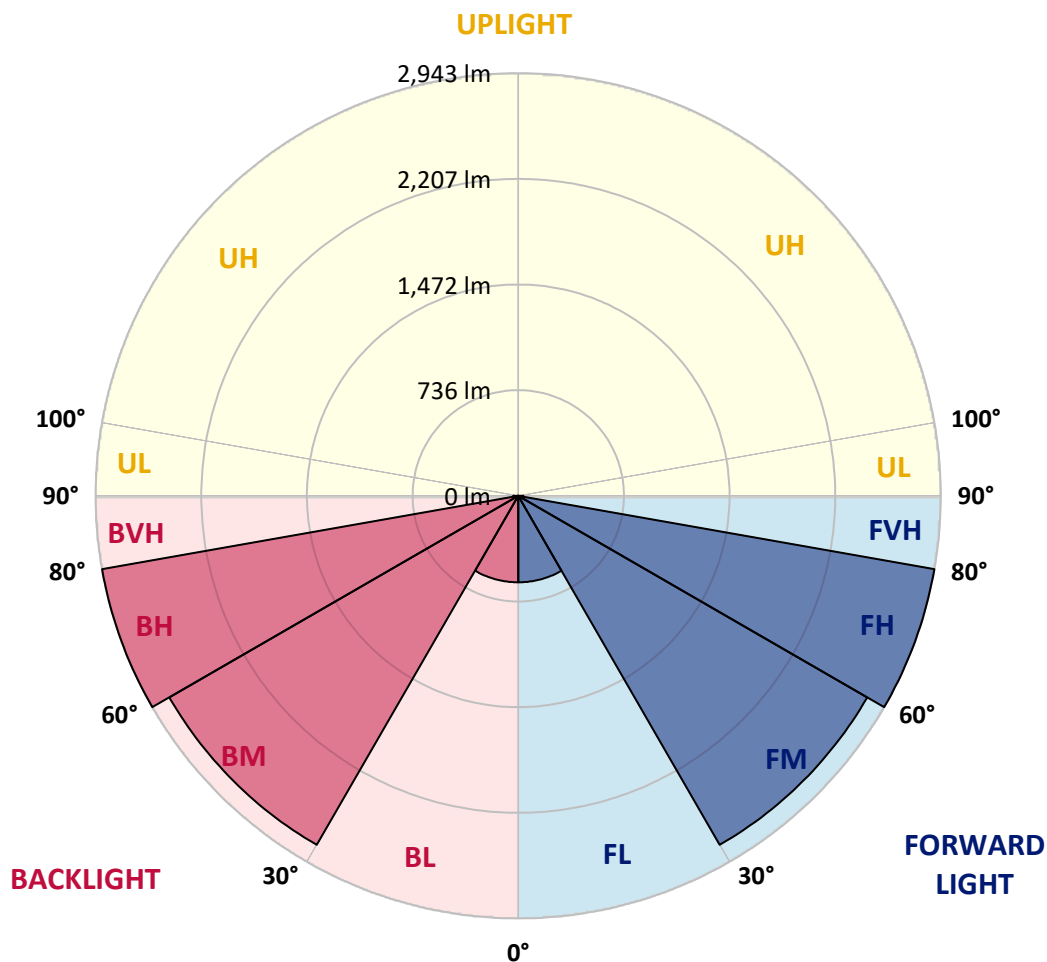
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.2	4.7			
FM (30°-60°)	2806.7	22.0			
FH (60°-80°)	2943.2	23.0			G2/5000
FVH (80°-90°)	35.7	0.3			G1/100
BL (0°-30°)	602.2	4.7	B2/1000		
BM (30°-60°)	2806.7	22.0	B3/5000		
BH (60°-80°)	2943.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	35.7	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°	1418.6	1418.6	1418.6	1418.6	1418.6	1418.6	1418.6	1418.6	1418.6	1418.6	1418.6
2.5°	1418.6	1420.0	1418.0	1416.6	1416.0	1416.0	1415.3	1416.0	1420.0	1420.7	1418.6
5°	1414.6	1416.0	1415.3	1413.9	1413.2	1413.2	1412.6	1411.9	1415.3	1416.6	1416.0
7.5°	1409.2	1409.9	1409.2	1408.5	1409.2	1408.5	1406.5	1405.2	1407.9	1407.9	1407.2
10°	1399.8	1401.2	1400.5	1401.2	1402.5	1402.5	1399.8	1397.1	1397.8	1396.4	1396.4
12.5°	1388.3	1390.4	1391.1	1393.7	1397.1	1401.2	1395.1	1389.0	1387.7	1387.0	1386.3
15°	1381.0	1382.9	1385.7	1388.3	1394.4	1403.1	1394.4	1385.0	1382.3	1379.6	1378.2
17.5°	1378.9	1381.6	1385.7	1389.7	1397.8	1406.5	1399.1	1389.7	1382.9	1378.9	1377.6
20°	1384.3	1386.3	1392.4	1399.8	1411.3	1420.0	1412.6	1402.5	1392.4	1386.3	1384.3
22.5°	1395.1	1398.4	1405.9	1419.3	1435.5	1448.3	1438.2	1421.4	1405.2	1397.1	1394.4
25°	1418.6	1421.4	1430.1	1448.3	1467.1	1479.2	1468.4	1448.9	1426.7	1416.0	1412.6
27.5°	1454.3	1458.3	1467.8	1489.3	1504.8	1511.6	1504.1	1490.7	1474.5	1463.1	1460.4
30°	1504.8	1509.5	1523.7	1546.6	1556.7	1560.8	1557.4	1548.6	1537.2	1525.0	1522.3
32.5°	1572.8	1575.6	1591.7	1613.2	1622.7	1624.0	1619.9	1616.0	1597.1	1576.9	1575.6
35°	1648.9	1653.6	1673.2	1698.7	1707.5	1708.2	1700.1	1694.0	1671.8	1655.7	1655.7
37.5°	1749.9	1752.0	1770.8	1799.7	1809.2	1806.5	1802.5	1797.1	1773.5	1752.6	1753.3
40°	1868.4	1872.5	1888.6	1922.3	1922.3	1918.9	1921.6	1917.6	1894.0	1873.8	1874.5
42.5°	2009.1	2011.1	2030.7	2066.3	2063.7	2056.9	2059.6	2054.3	2039.4	2016.5	2008.5
45°	2159.3	2167.3	2201.0	2235.4	2230.0	2208.5	2219.2	2217.8	2204.4	2170.1	2172.0
47.5°	2340.4	2353.9	2386.2	2427.2	2421.2	2387.5	2399.7	2407.7	2388.9	2351.2	2344.5
50°	2544.4	2553.2	2601.0	2639.3	2633.9	2598.3	2625.9	2627.2	2580.1	2526.9	2526.9
52.5°	2761.9	2770.6	2835.3	2895.2	2898.6	2846.8	2868.9	2867.6	2790.8	2720.8	2707.4
55°	3005.6	3009.7	3093.2	3181.3	3200.2	3149.7	3152.4	3125.5	3025.8	2944.4	2937.0
57.5°	3257.4	3272.2	3364.5	3478.9	3534.9	3503.8	3489.8	3417.7	3321.4	3227.8	3223.1
60°	3536.2	3536.9	3656.7	3792.1	3905.1	3926.0	3868.1	3771.9	3647.3	3523.4	3518.0
62.5°	3729.4	3758.4	3909.9	4138.8	4341.5	4458.6	4305.8	4103.8	3858.7	3658.7	3638.5
65°	3769.1	3788.7	4019.6	4407.4	4821.6	5074.0	4720.6	4291.0	3872.9	3606.2	3592.7
67.5°	3448.0	3468.8	3779.9	4375.1	5158.2	5676.0	4989.8	4200.7	3633.1	3303.2	3276.9
70°	2667.0	2690.5	3075.0	3851.3	5083.5	5865.1	4798.0	3664.1	2996.2	2640.0	2592.2
72.5°	1418.0	1504.8	1833.4	2643.4	4126.0	5049.8	3934.1	2673.7	1932.4	1579.5	1516.3
75°	517.8	528.5	711.7	1172.2	2400.4	3462.8	2492.6	1275.3	733.2	566.3	537.3
77.5°	214.1	213.4	234.3	354.2	871.9	1773.5	973.0	374.4	233.6	216.1	213.4
80°	126.6	126.6	139.4	147.4	229.6	535.3	256.5	167.0	140.1	127.9	130.0
82.5°	56.5	59.9	88.2	92.9	111.1	146.8	123.9	106.4	91.5	63.3	57.2
85°	31.0	26.9	46.4	48.5	53.2	54.6	58.6	57.9	53.2	31.0	31.6
87.5°	6.0	7.4	13.5	10.1	11.4	10.1	13.5	18.9	19.5	10.8	8.8
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)