

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: P651765

Luminaire Tested: **GALN-SA3A-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651765
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-SA3A-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12041.5 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

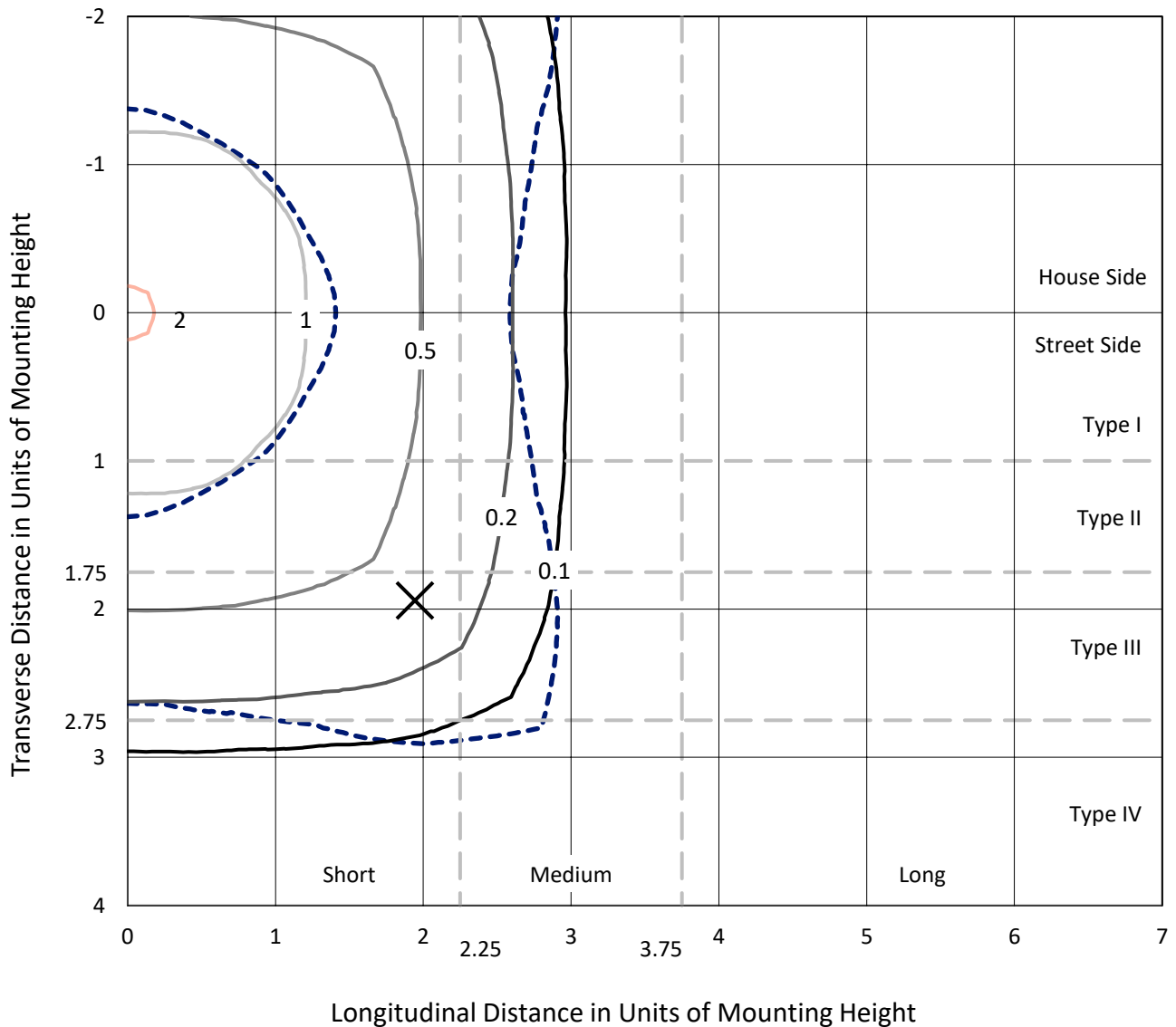
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

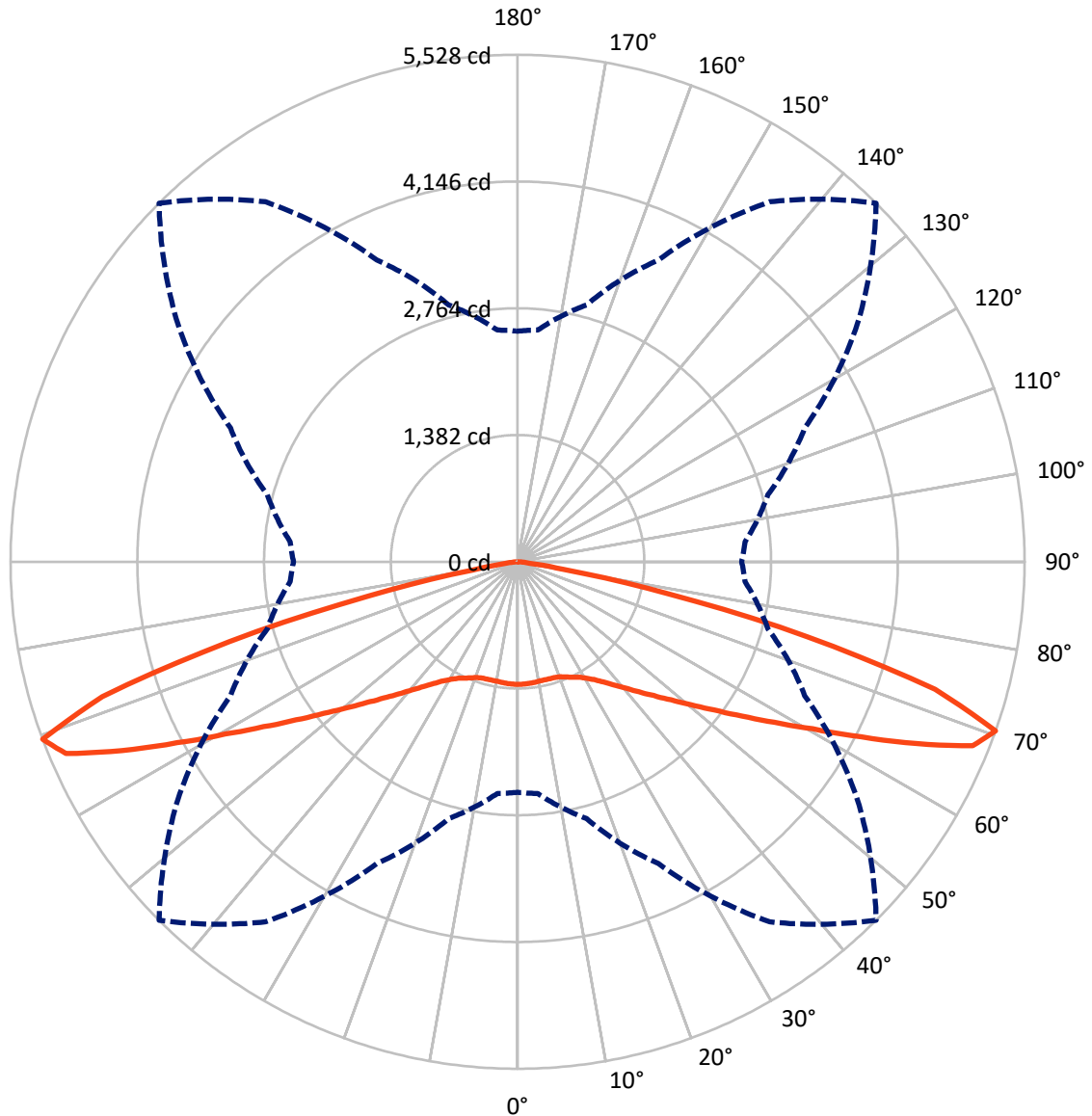
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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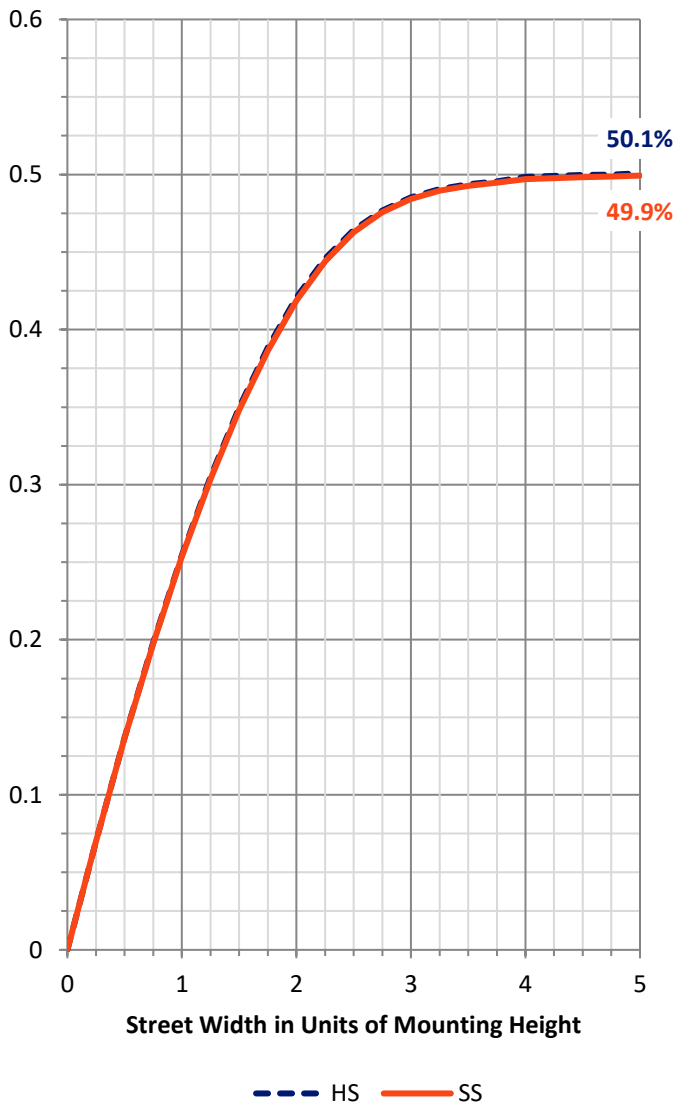
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6020.7	0.0	6020.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6020.7	0.0	6020.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12041.5	0.0	12041.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	1.1
10°-20°	372.1	3.1
20°-30°	636.4	5.3
30°-40°	1010.1	8.4
40°-50°	1629.5	13.5
50°-60°	2651.2	22.0
60°-70°	3843.4	31.9
70°-80°	1704.8	14.2
80°-90°	67.2	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°	12041.5	100.0
0°-180°	12041.5	100.0

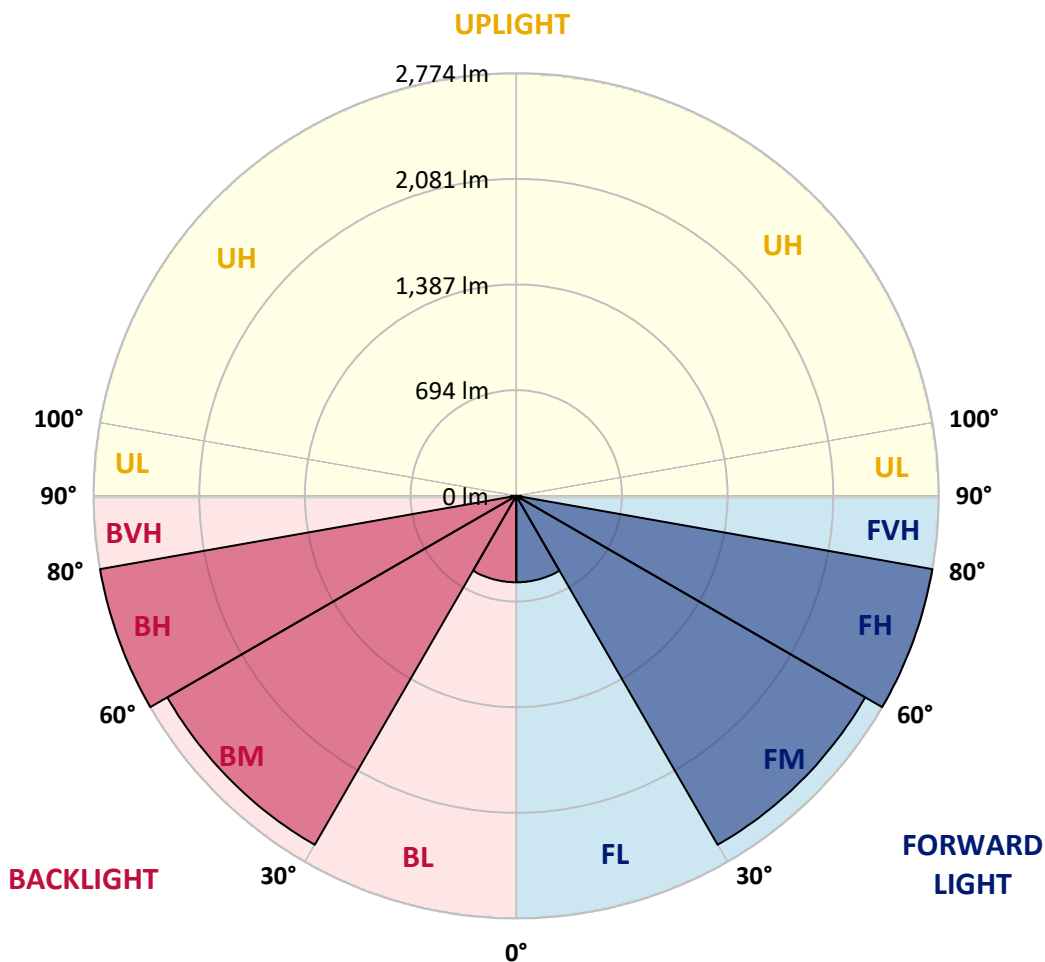


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.6	4.7			
FM (30°-60°)	2645.4	22.0			
FH (60°-80°)	2774.1	23.0			G2/5000
FVH (80°-90°)	33.6	0.3			G1/100
BL (0°-30°)	567.6	4.7	B2/1000		
BM (30°-60°)	2645.4	22.0	B3/5000		
BH (60°-80°)	2774.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	33.6	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°	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1
2.5°	1337.1	1338.5	1336.5	1335.3	1334.6	1334.6	1334.0	1334.6	1338.5	1339.0	1337.1
5°	1333.3	1334.6	1334.0	1332.7	1332.1	1332.1	1331.5	1330.8	1334.0	1335.3	1334.6
7.5°	1328.3	1328.9	1328.3	1327.6	1328.3	1327.6	1325.8	1324.5	1327.0	1327.0	1326.3
10°	1319.4	1320.6	1320.0	1320.6	1321.9	1321.9	1319.4	1316.8	1317.5	1316.2	1316.2
12.5°	1308.6	1310.5	1311.1	1313.6	1316.8	1320.6	1314.9	1309.2	1307.9	1307.3	1306.7
15°	1301.6	1303.6	1306.1	1308.6	1314.3	1322.6	1314.3	1305.4	1302.9	1300.4	1299.1
17.5°	1299.7	1302.2	1306.1	1309.9	1317.5	1325.8	1318.8	1309.9	1303.6	1299.7	1298.4
20°	1304.8	1306.7	1312.4	1319.4	1330.1	1338.5	1331.5	1321.9	1312.4	1306.7	1304.8
22.5°	1314.9	1318.1	1325.1	1337.8	1353.0	1365.0	1355.5	1339.7	1324.5	1316.8	1314.3
25°	1337.1	1339.7	1348.0	1365.0	1382.9	1394.3	1384.1	1365.7	1344.8	1334.6	1331.5
27.5°	1370.7	1374.6	1383.4	1403.8	1418.3	1424.7	1417.8	1405.1	1389.8	1379.1	1376.5
30°	1418.3	1422.8	1436.2	1457.7	1467.2	1471.1	1467.9	1459.6	1448.9	1437.4	1434.9
32.5°	1482.5	1485.0	1500.3	1520.5	1529.4	1530.7	1526.9	1523.1	1505.3	1486.3	1485.0
35°	1554.2	1558.6	1577.0	1601.2	1609.4	1610.0	1602.4	1596.7	1575.8	1560.6	1560.6
37.5°	1649.4	1651.3	1669.0	1696.4	1705.2	1702.7	1698.9	1693.8	1671.6	1651.9	1652.6
40°	1761.1	1764.8	1780.1	1811.9	1811.9	1808.7	1811.2	1807.4	1785.2	1766.2	1766.8
42.5°	1893.7	1895.6	1914.0	1947.7	1945.1	1938.8	1941.3	1936.2	1922.3	1900.7	1893.1
45°	2035.2	2042.9	2074.6	2107.0	2101.8	2081.6	2091.7	2090.5	2077.8	2045.4	2047.2
47.5°	2205.9	2218.6	2249.1	2287.8	2282.1	2250.3	2261.8	2269.4	2251.6	2216.1	2209.7
50°	2398.2	2406.5	2451.5	2487.7	2482.6	2449.0	2475.0	2476.3	2431.8	2381.7	2381.7
52.5°	2603.2	2611.5	2672.4	2728.9	2732.1	2683.2	2704.2	2702.8	2630.5	2564.5	2551.8
55°	2832.9	2836.8	2915.4	2998.6	3016.3	2968.7	2971.3	2945.9	2852.0	2775.2	2768.2
57.5°	3070.3	3084.3	3171.2	3279.1	3331.8	3302.5	3289.2	3221.4	3130.6	3042.4	3037.9
60°	3333.1	3333.6	3446.6	3574.2	3680.8	3700.5	3645.9	3555.2	3437.8	3320.9	3315.9
62.5°	3515.1	3542.5	3685.3	3901.0	4092.1	4202.5	4058.4	3868.0	3637.0	3448.5	3429.5
65°	3552.6	3571.0	3788.7	4154.2	4544.5	4782.5	4449.3	4044.5	3650.4	3399.0	3386.4
67.5°	3249.9	3269.6	3562.7	4123.8	4861.8	5349.9	4703.2	3959.4	3424.4	3113.5	3088.7
70°	2513.7	2536.0	2898.3	3630.0	4791.3	5528.1	4522.3	3453.6	2824.1	2488.4	2443.3
72.5°	1336.5	1418.3	1728.1	2491.5	3889.0	4759.6	3708.1	2520.1	1821.4	1488.8	1429.2
75°	488.0	498.2	670.8	1104.9	2262.5	3263.8	2349.3	1202.0	691.1	533.7	506.5
77.5°	201.8	201.2	220.8	333.8	821.8	1671.6	917.0	352.9	220.2	203.7	201.2
80°	119.3	119.3	131.4	139.0	216.4	504.5	241.8	157.4	132.0	120.6	122.4
82.5°	53.3	56.5	83.2	87.5	104.7	138.3	116.7	100.2	86.3	59.6	53.9
85°	29.2	25.4	43.8	45.7	50.1	51.4	55.3	54.6	50.1	29.2	29.9
87.5°	5.7	7.0	12.7	9.5	10.8	9.5	12.7	17.7	18.4	10.2	8.2
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)