

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: P646760

Luminaire Tested: **GALN-SA2C-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646760
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-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 11610.3 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

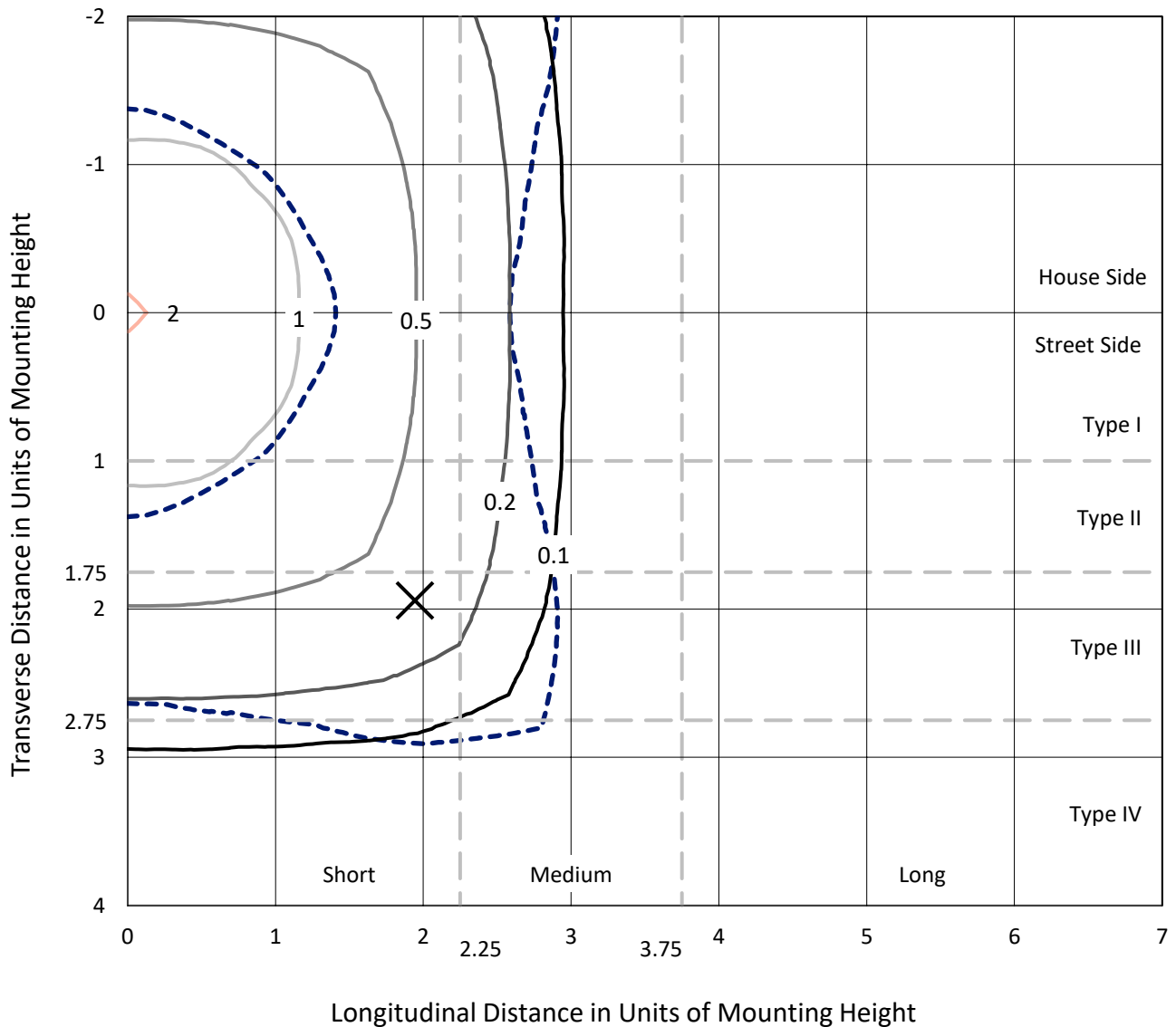
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

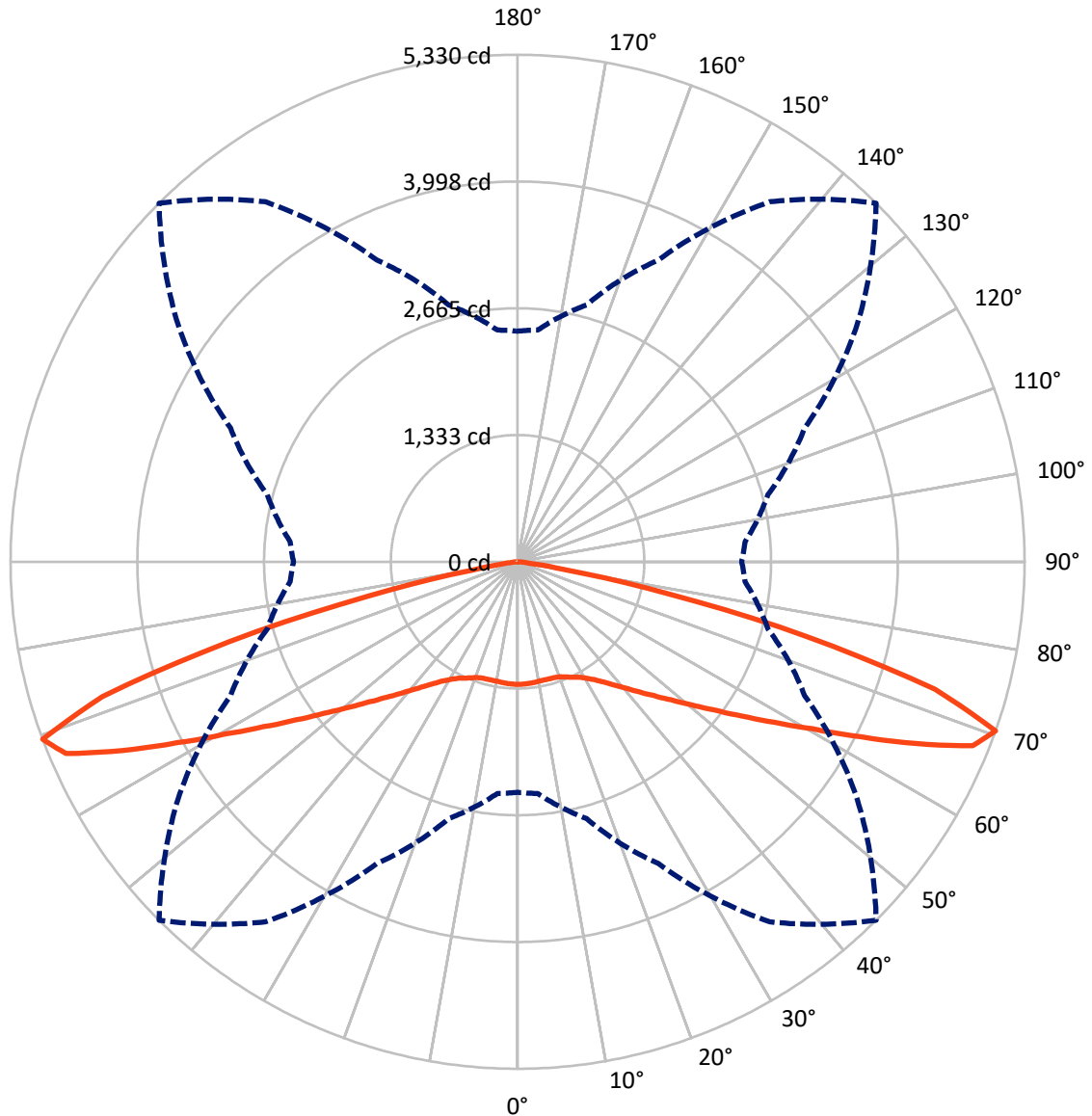
× Max cd
 - - - 1/2 Max cd



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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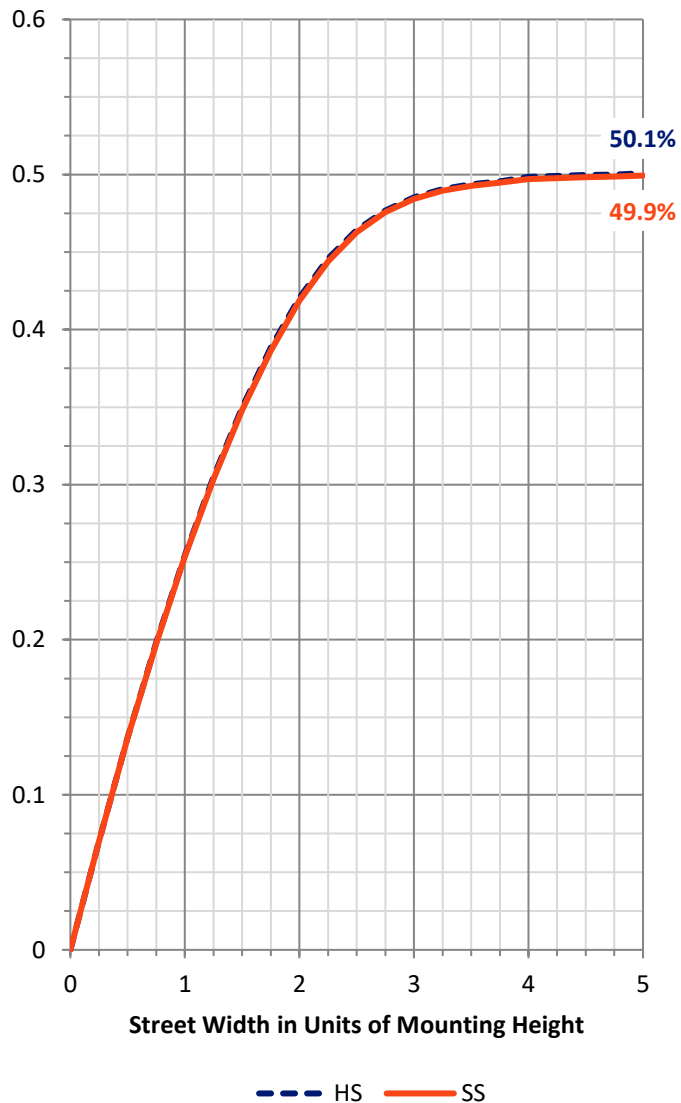
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5805.2	0.0	5805.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5805.2	0.0	5805.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	11610.3	0.0	11610.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	1.1
10°-20°	358.8	3.1
20°-30°	613.6	5.3
30°-40°	973.9	8.4
40°-50°	1571.2	13.5
50°-60°	2556.3	22.0
60°-70°	3705.8	31.9
70°-80°	1643.7	14.2
80°-90°	64.8	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°	11610.3	100.0
0°-180°	11610.3	100.0

Coefficient of Utilization



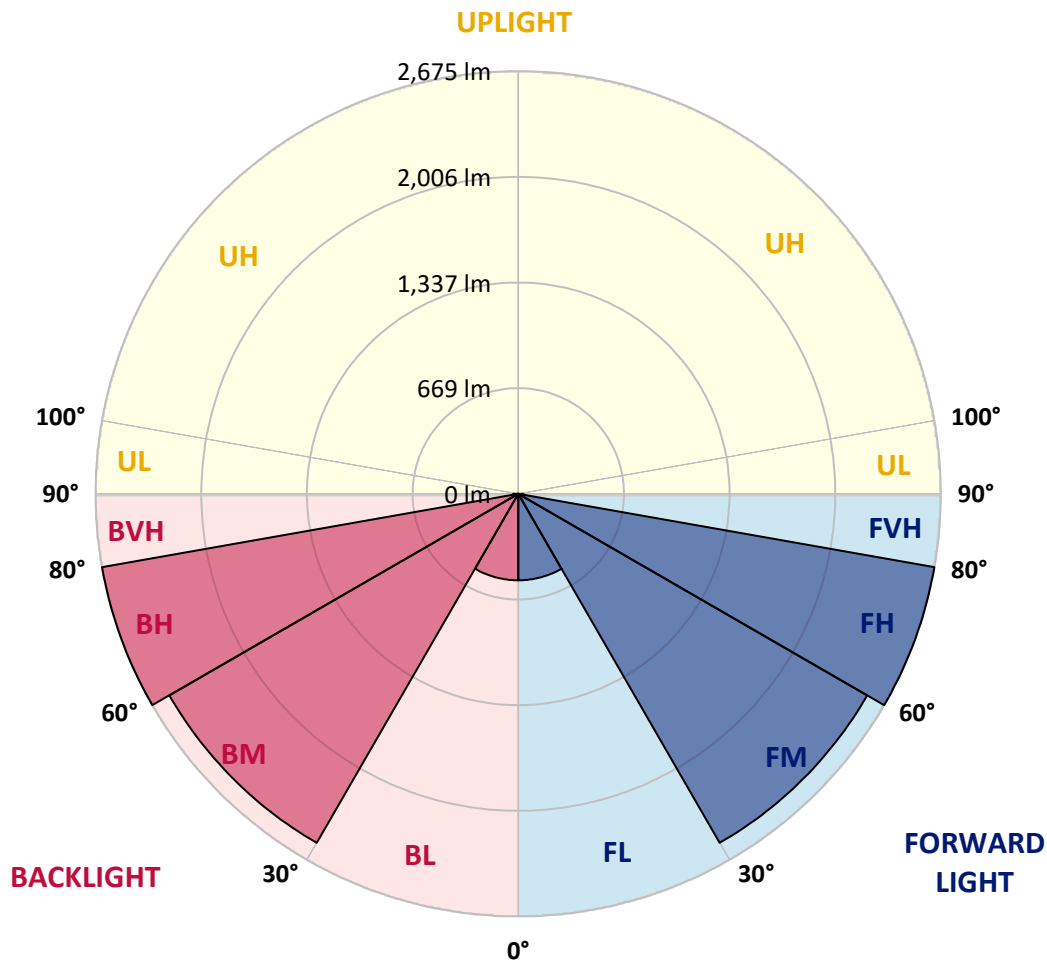
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.3	4.7			
FM (30°-60°)	2550.7	22.0			
FH (60°-80°)	2674.7	23.0			G2/5000
FVH (80°-90°)	32.4	0.3			G1/100
BL (0°-30°)	547.3	4.7	B2/1000		
BM (30°-60°)	2550.7	22.0	B3/5000		
BH (60°-80°)	2674.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	32.4	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°	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1289.3	1290.5	1288.7	1287.4	1286.9	1286.9	1286.2	1286.9	1290.5	1291.1	1289.3
5°	1285.6	1286.9	1286.2	1285.0	1284.4	1284.4	1283.7	1283.2	1286.2	1287.4	1286.9
7.5°	1280.7	1281.3	1280.7	1280.1	1280.7	1280.1	1278.2	1277.0	1279.5	1279.5	1278.9
10°	1272.1	1273.4	1272.8	1273.4	1274.6	1274.6	1272.1	1269.7	1270.3	1269.1	1269.1
12.5°	1261.7	1263.6	1264.2	1266.7	1269.7	1273.4	1267.8	1262.4	1261.1	1260.5	1259.9
15°	1255.0	1256.9	1259.3	1261.7	1267.2	1275.2	1267.2	1258.7	1256.2	1253.8	1252.6
17.5°	1253.2	1255.6	1259.3	1263.0	1270.3	1278.2	1271.5	1263.0	1256.9	1253.2	1251.9
20°	1258.0	1259.9	1265.4	1272.1	1282.6	1290.5	1283.7	1274.6	1265.4	1259.9	1258.0
22.5°	1267.8	1270.9	1277.6	1289.9	1304.6	1316.2	1307.0	1291.7	1277.0	1269.7	1267.2
25°	1289.3	1291.7	1299.7	1316.2	1333.3	1344.3	1334.5	1316.8	1296.6	1286.9	1283.7
27.5°	1321.7	1325.4	1333.9	1353.5	1367.6	1373.7	1367.0	1354.7	1340.0	1329.7	1327.2
30°	1367.6	1371.9	1384.7	1405.6	1414.7	1418.4	1415.4	1407.4	1397.0	1386.0	1383.5
32.5°	1429.4	1431.9	1446.5	1466.1	1474.7	1475.9	1472.2	1468.6	1451.4	1433.0	1431.9
35°	1498.5	1502.8	1520.6	1543.8	1551.7	1552.4	1545.0	1539.5	1519.3	1504.7	1504.7
37.5°	1590.4	1592.2	1609.3	1635.6	1644.1	1641.7	1638.0	1633.2	1611.7	1592.8	1593.4
40°	1698.0	1701.7	1716.4	1747.0	1747.0	1743.9	1746.3	1742.7	1721.3	1702.9	1703.5
42.5°	1825.9	1827.8	1845.5	1877.9	1875.4	1869.3	1871.8	1866.9	1853.4	1832.6	1825.3
45°	1962.4	1969.7	2000.3	2031.5	2026.6	2007.1	2016.9	2015.6	2003.4	1972.1	1974.0
47.5°	2126.9	2139.2	2168.6	2205.9	2200.4	2169.8	2180.8	2188.2	2171.0	2136.7	2130.6
50°	2312.4	2320.3	2363.8	2398.6	2393.8	2361.3	2386.4	2387.6	2344.8	2296.5	2296.5
52.5°	2510.0	2518.0	2576.7	2631.2	2634.2	2587.1	2607.3	2606.1	2536.3	2472.7	2460.4
55°	2731.5	2735.2	2811.0	2891.2	2908.4	2862.5	2864.9	2840.4	2749.9	2675.8	2669.1
57.5°	2960.4	2973.8	3057.7	3161.7	3212.5	3184.3	3171.5	3106.0	3018.5	2933.4	2929.1
60°	3213.7	3214.3	3323.2	3446.2	3549.0	3568.0	3515.4	3427.9	3314.7	3202.1	3197.1
62.5°	3389.3	3415.6	3553.3	3761.4	3945.5	4052.0	3913.1	3729.5	3506.8	3325.1	3306.7
65°	3425.4	3443.2	3653.0	4005.5	4381.8	4611.2	4290.1	3899.7	3519.7	3277.3	3265.1
67.5°	3133.6	3152.5	3435.2	3976.2	4687.7	5158.3	4534.8	3817.7	3301.8	3001.9	2978.1
70°	2423.7	2445.2	2794.5	3500.1	4619.9	5330.3	4360.4	3329.9	2723.0	2399.3	2355.8
72.5°	1288.7	1367.6	1666.2	2402.3	3749.7	4589.2	3575.3	2429.9	1756.1	1435.6	1378.0
75°	470.6	480.4	646.8	1065.3	2181.4	3147.0	2265.2	1158.9	666.3	514.6	488.3
77.5°	194.6	193.9	213.0	321.9	792.4	1611.7	884.2	340.2	212.3	196.5	193.9
80°	115.0	115.0	126.7	134.0	208.7	486.5	233.1	151.7	127.2	116.3	118.1
82.5°	51.4	54.5	80.2	84.4	100.9	133.4	112.6	96.7	83.2	57.6	52.0
85°	28.1	24.5	42.2	44.1	48.3	49.6	53.2	52.6	48.3	28.1	28.7
87.5°	5.5	6.7	12.2	9.2	10.4	9.2	12.2	17.1	17.8	9.8	8.0
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)