

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: P652205

Luminaire Tested: **GALN-SA2B-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652205
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-SA2B-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10092.9 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

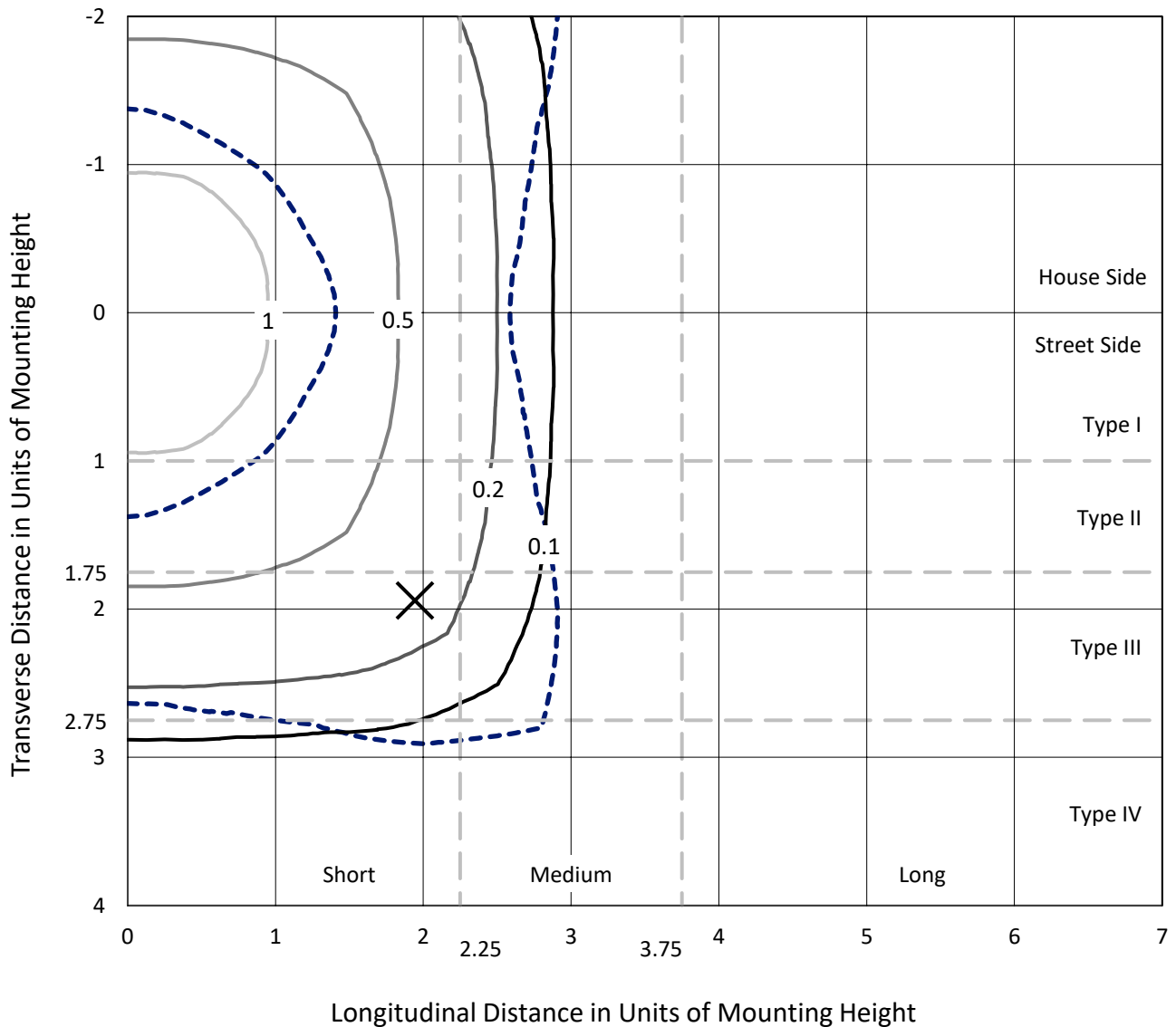
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

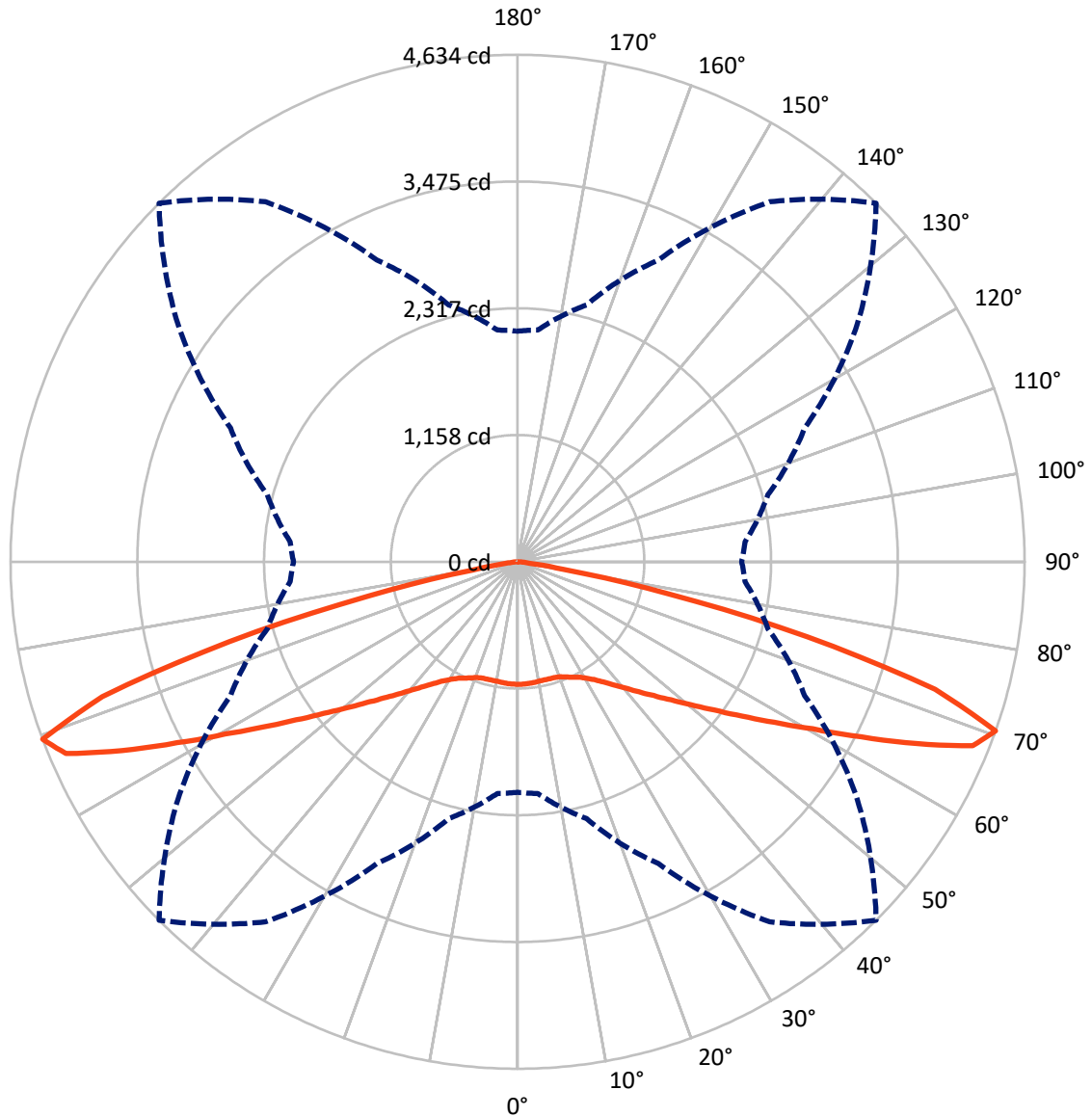
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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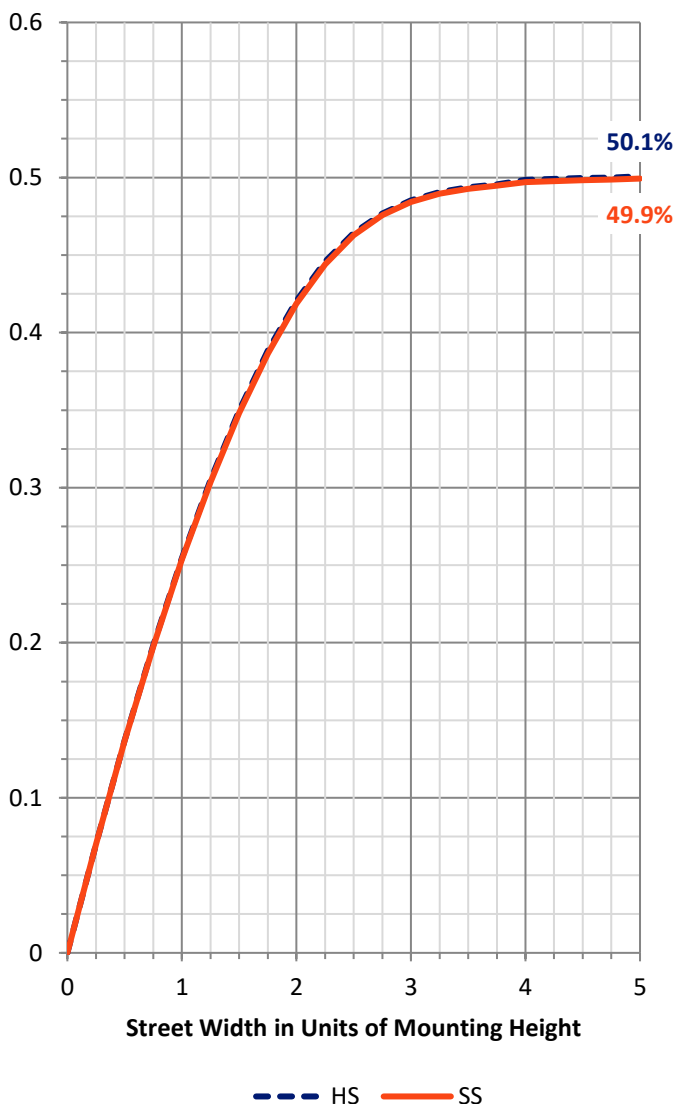
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5046.4	0.0	5046.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5046.4	0.0	5046.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10092.9	0.0	10092.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.1
10°-20°	311.9	3.1
20°-30°	533.4	5.3
30°-40°	846.6	8.4
40°-50°	1365.8	13.5
50°-60°	2222.2	22.0
60°-70°	3221.4	31.9
70°-80°	1428.9	14.2
80°-90°	56.4	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°	10092.9	100.0
0°-180°	10092.9	100.0

Coefficient of Utilization

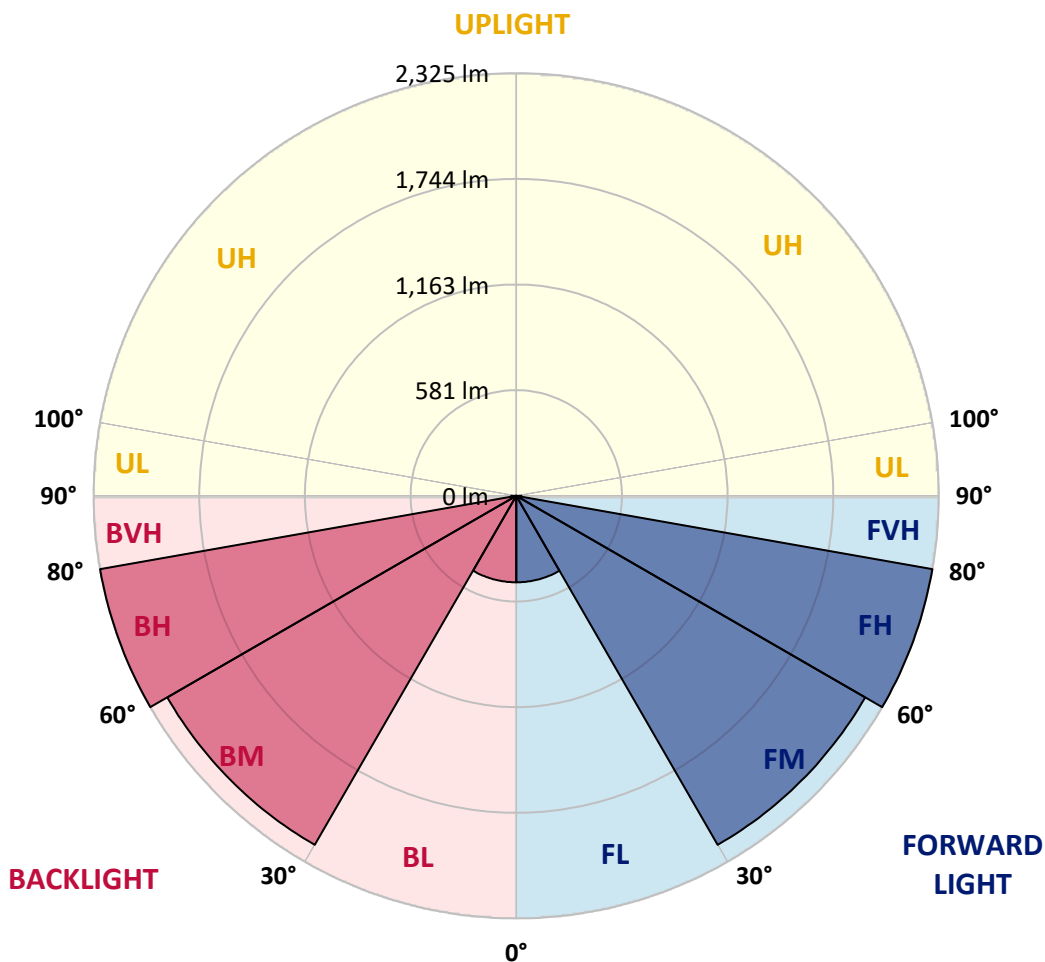


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.8	4.7			
FM (30°-60°)	2217.3	22.0			
FH (60°-80°)	2325.2	23.0			G2/5000
FVH (80°-90°)	28.2	0.3			G1/100
BL (0°-30°)	475.8	4.7	B1/500		
BM (30°-60°)	2217.3	22.0	B2/2500		
BH (60°-80°)	2325.2	23.0	B3/2500		G2/5000
BVH (80°-90°)	28.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1120.8	1120.8	1120.8	1120.8	1120.8	1120.8	1120.8	1120.8	1120.8	1120.8	1120.8
2.5°	1120.8	1121.8	1120.2	1119.2	1118.6	1118.6	1118.1	1118.6	1121.8	1122.4	1120.8
5°	1117.6	1118.6	1118.1	1117.0	1116.5	1116.5	1116.0	1115.4	1118.1	1119.2	1118.6
7.5°	1113.3	1113.8	1113.3	1112.8	1113.3	1112.8	1111.2	1110.1	1112.2	1112.2	1111.7
10°	1105.8	1106.9	1106.4	1106.9	1108.0	1108.0	1105.8	1103.7	1104.2	1103.2	1103.2
12.5°	1096.8	1098.4	1098.9	1101.1	1103.7	1106.9	1102.1	1097.3	1096.3	1095.7	1095.2
15°	1090.9	1092.5	1094.7	1096.8	1101.6	1108.5	1101.6	1094.1	1092.0	1089.9	1088.8
17.5°	1089.3	1091.5	1094.7	1097.9	1104.2	1111.2	1105.3	1097.9	1092.5	1089.3	1088.3
20°	1093.6	1095.2	1100.0	1105.8	1114.9	1121.8	1116.0	1108.0	1100.0	1095.2	1093.6
22.5°	1102.1	1104.8	1110.6	1121.3	1134.1	1144.2	1136.2	1122.9	1110.1	1103.7	1101.6
25°	1120.8	1122.9	1129.8	1144.2	1159.1	1168.7	1160.2	1144.7	1127.1	1118.6	1116.0
27.5°	1149.0	1152.2	1159.6	1176.6	1188.8	1194.1	1188.3	1177.7	1165.0	1155.9	1153.8
30°	1188.8	1192.5	1203.7	1221.8	1229.8	1233.0	1230.3	1223.4	1214.4	1204.8	1202.7
32.5°	1242.6	1244.7	1257.5	1274.5	1281.9	1283.0	1279.8	1276.6	1261.8	1245.8	1244.7
35°	1302.7	1306.4	1321.8	1342.1	1349.0	1349.5	1343.1	1338.3	1320.8	1308.0	1308.0
37.5°	1382.4	1384.0	1398.9	1421.8	1429.3	1427.2	1424.0	1419.7	1401.1	1384.6	1385.1
40°	1476.1	1479.3	1492.0	1518.7	1518.7	1516.0	1518.1	1514.9	1496.3	1480.3	1480.8
42.5°	1587.2	1588.8	1604.3	1632.5	1630.4	1625.1	1627.2	1622.9	1611.2	1593.1	1586.7
45°	1705.9	1712.3	1738.9	1766.0	1761.7	1744.7	1753.2	1752.1	1741.5	1714.4	1716.0
47.5°	1848.9	1859.6	1885.1	1917.6	1912.8	1886.2	1895.8	1902.2	1887.3	1857.5	1852.1
50°	2010.2	2017.1	2054.8	2085.2	2080.9	2052.7	2074.5	2075.6	2038.3	1996.3	1996.3
52.5°	2182.0	2188.9	2239.9	2287.3	2290.0	2249.0	2266.5	2265.5	2204.8	2149.5	2138.8
55°	2374.5	2377.7	2443.7	2513.3	2528.2	2488.4	2490.5	2469.2	2390.5	2326.1	2320.2
57.5°	2573.5	2585.1	2658.0	2748.5	2792.6	2768.2	2757.0	2700.0	2624.0	2550.1	2546.3
60°	2793.6	2794.2	2888.8	2995.8	3085.1	3101.6	3055.9	2979.8	2881.4	2783.5	2779.3
62.5°	2946.4	2969.2	3088.9	3269.7	3429.9	3522.4	3401.7	3242.1	3048.5	2890.4	2874.5
65°	2977.7	2993.1	3175.6	3482.0	3809.1	4008.5	3729.3	3390.0	3059.6	2849.0	2838.4
67.5°	2724.0	2740.5	2986.2	3456.4	4075.1	4484.1	3942.1	3318.7	2870.2	2609.6	2588.9
70°	2107.0	2125.5	2429.3	3042.6	4016.0	4633.6	3790.5	2894.7	2367.1	2085.7	2047.9
72.5°	1120.2	1188.8	1448.5	2088.4	3259.6	3989.5	3108.0	2112.3	1526.6	1247.9	1197.9
75°	409.1	417.6	562.2	926.1	1896.3	2735.7	1969.2	1007.4	579.3	447.3	424.5
77.5°	169.1	168.6	185.1	279.8	688.9	1401.1	768.6	295.8	184.6	170.7	168.6
80°	100.0	100.0	110.1	116.5	181.4	422.9	202.7	132.0	110.7	101.1	102.7
82.5°	44.7	47.3	69.7	73.4	87.8	116.0	97.9	84.0	72.3	50.0	45.2
85°	24.5	21.3	36.7	38.3	42.0	43.1	46.3	45.8	42.0	24.5	25.0
87.5°	4.8	5.9	10.6	8.0	9.1	8.0	10.6	14.9	15.4	8.5	6.9
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)