

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: P647866

Luminaire Tested: **GALN-SA4A-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14825.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

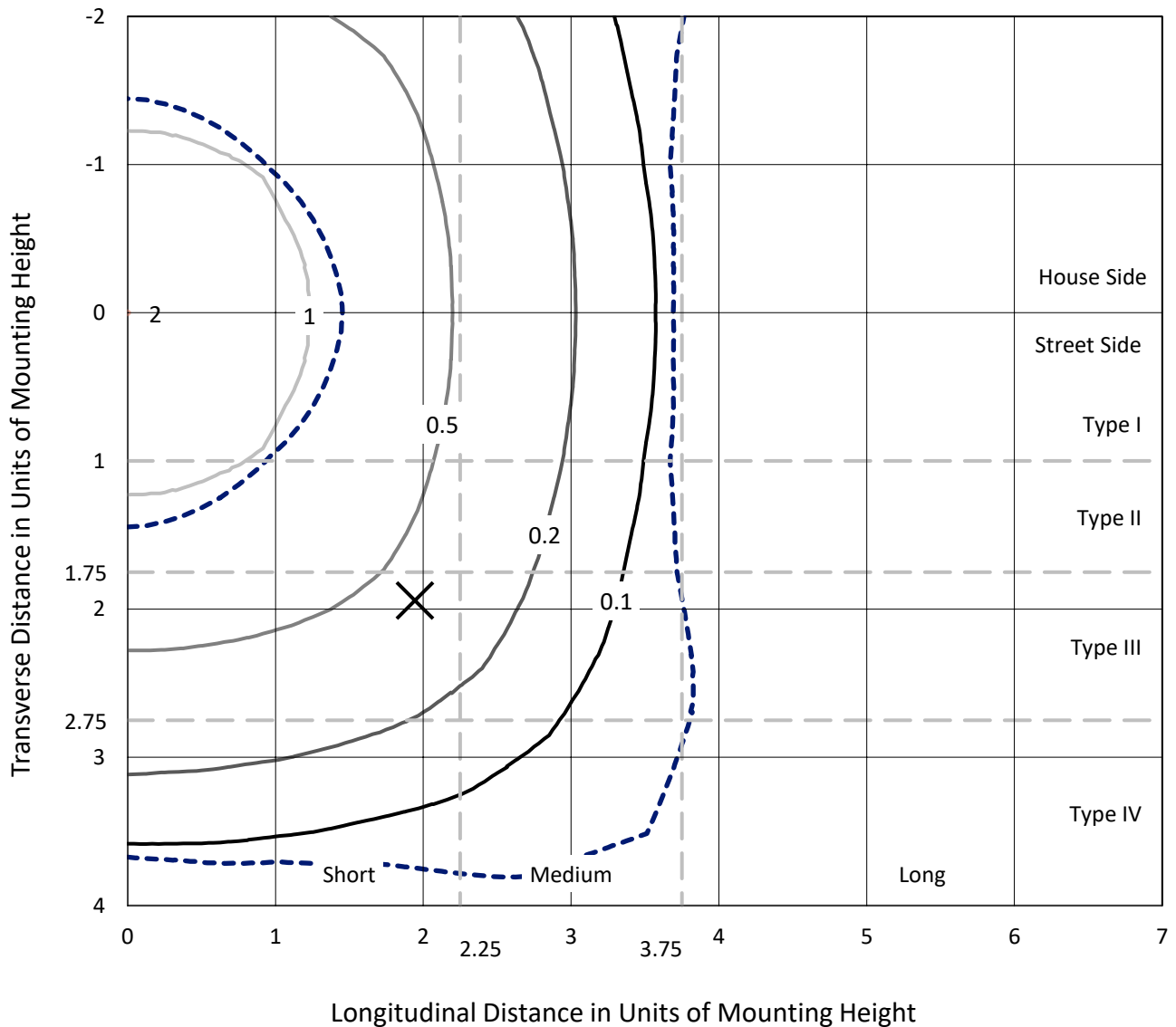
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

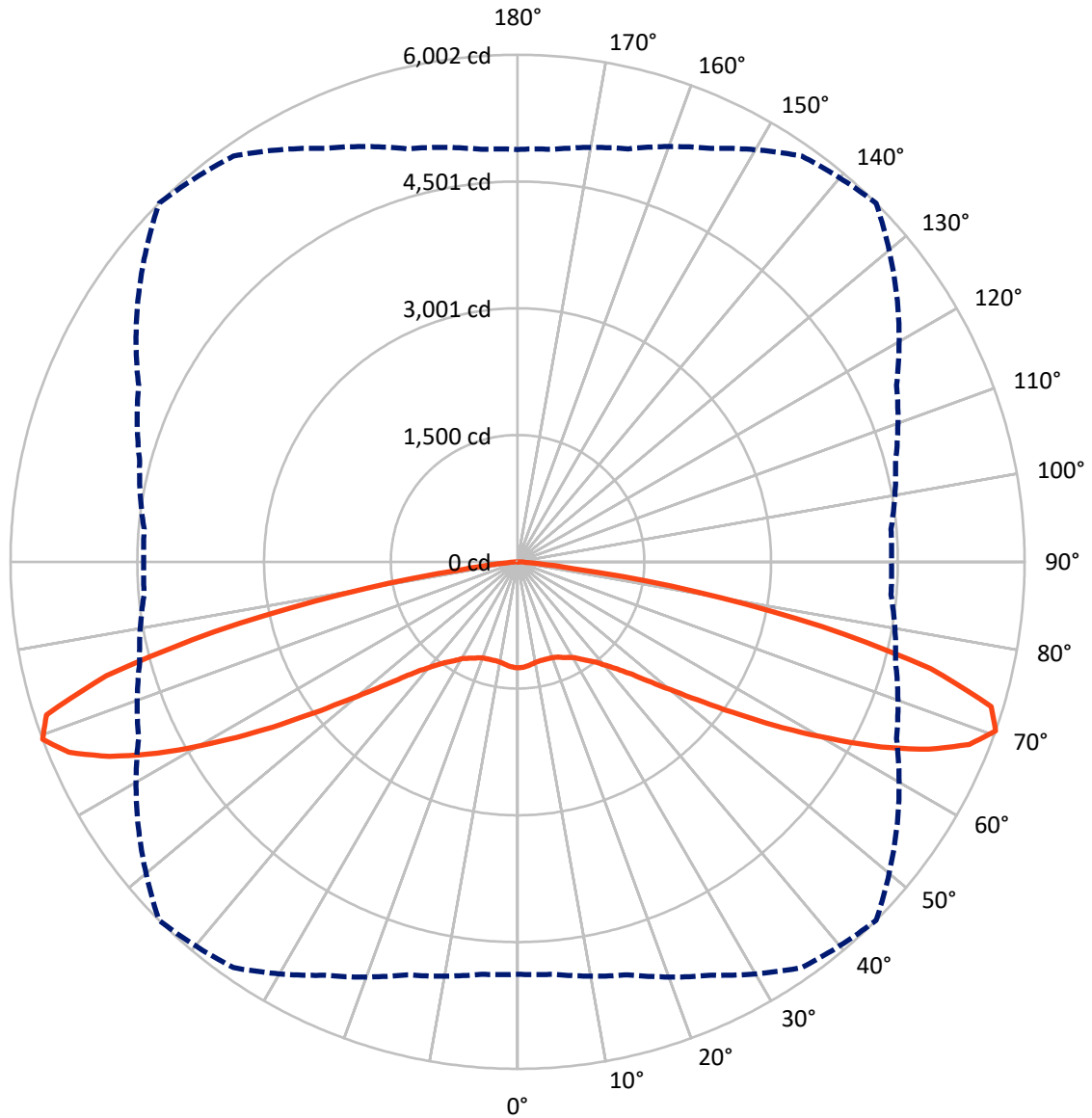
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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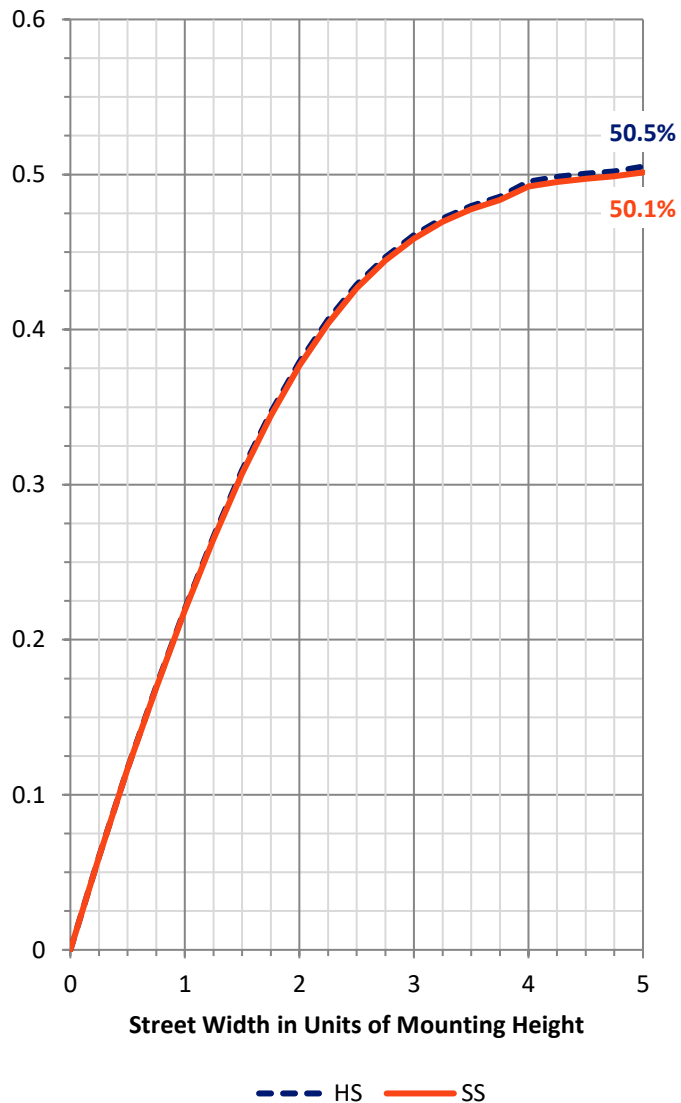
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7412.7	0.0	7412.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7412.7	0.0	7412.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14825.4	0.0	14825.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.4	0.8
10°-20°	343.6	2.3
20°-30°	585.5	3.9
30°-40°	907.5	6.1
40°-50°	1527.4	10.3
50°-60°	2779.1	18.7
60°-70°	4704.9	31.7
70°-80°	3641.8	24.6
80°-90°	218.2	1.5
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°	14825.4	100.0
0°-180°	14825.4	100.0

**Coefficient of Utilization**



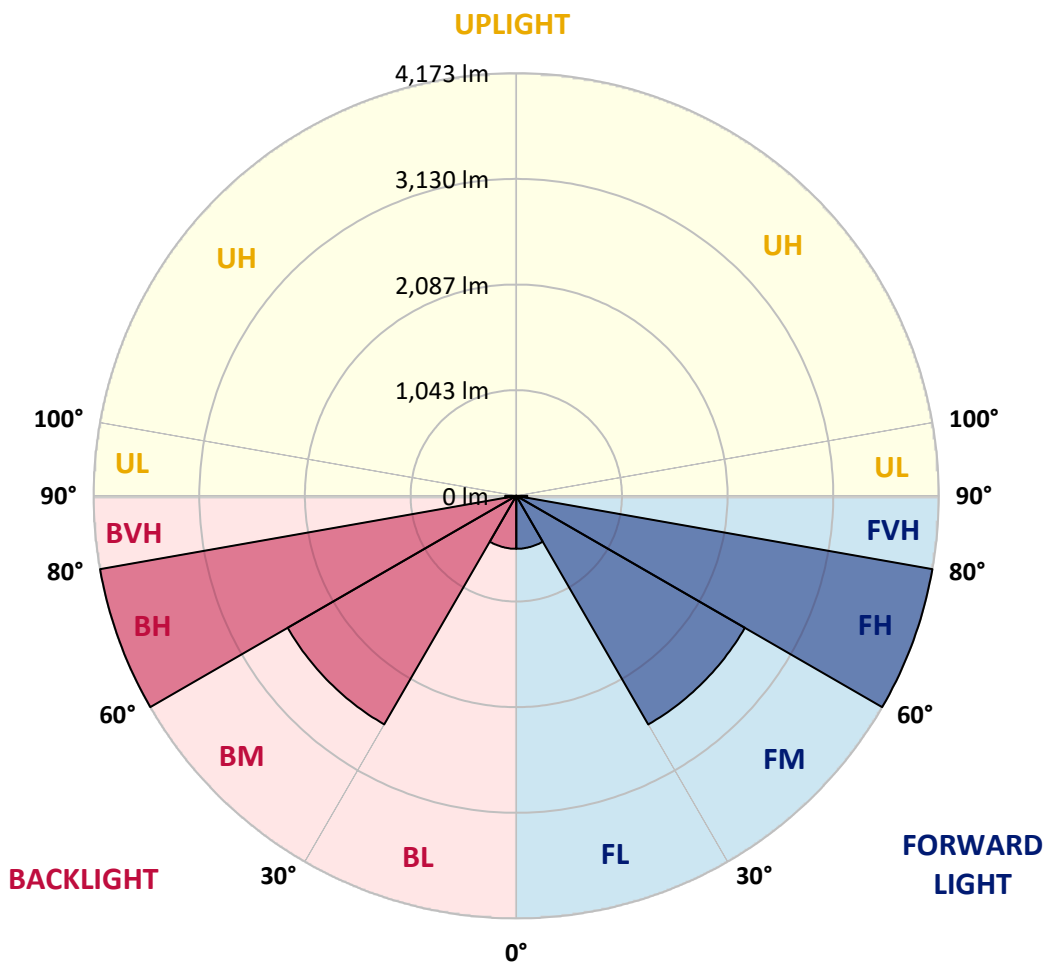
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.2	3.5			
FM (30°-60°)	2607.0	17.6			
FH (60°-80°)	4173.3	28.1			G2/5000
FVH (80°-90°)	109.1	0.7			G2/225
BL (0°-30°)	523.2	3.5	B2/1000		
BM (30°-60°)	2607.0	17.6	B3/5000		
BH (60°-80°)	4173.3	28.1	B4/5000		G2/5000
BVH (80°-90°)	109.1	0.7			G2/225
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°	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1252.0	1252.8	1252.8	1251.2	1250.5	1250.5	1249.7	1249.7	1252.0	1252.8	1253.6
5°	1241.1	1241.1	1241.1	1240.3	1238.7	1238.7	1237.1	1237.1	1237.9	1240.3	1238.7
7.5°	1226.2	1227.7	1227.7	1224.6	1222.3	1222.3	1221.5	1222.3	1223.0	1225.4	1224.6
10°	1221.5	1222.3	1218.3	1212.9	1209.0	1206.6	1207.4	1209.0	1212.9	1214.4	1215.2
12.5°	1224.6	1224.6	1217.6	1209.7	1202.7	1199.6	1198.8	1204.3	1211.3	1216.0	1217.6
15°	1228.5	1227.0	1218.3	1208.2	1201.1	1200.3	1199.6	1203.5	1213.6	1223.0	1223.8
17.5°	1230.9	1230.1	1219.1	1206.6	1202.7	1202.7	1201.9	1205.0	1216.0	1227.7	1228.5
20°	1238.7	1236.4	1223.8	1210.5	1207.4	1209.0	1206.6	1210.5	1222.3	1236.4	1239.5
22.5°	1254.4	1252.0	1239.5	1226.2	1224.6	1224.6	1223.8	1227.7	1240.3	1255.1	1257.5
25°	1273.2	1270.8	1259.1	1249.7	1251.2	1254.4	1252.8	1253.6	1263.8	1276.3	1280.2
27.5°	1298.2	1294.3	1284.1	1276.3	1281.0	1281.0	1281.0	1280.2	1286.5	1298.2	1302.1
30°	1328.8	1327.2	1316.2	1315.4	1319.4	1315.4	1315.4	1316.2	1317.0	1328.0	1331.9
32.5°	1368.7	1365.6	1360.1	1358.5	1369.5	1372.6	1361.6	1351.5	1356.9	1367.9	1370.2
35°	1434.5	1429.8	1421.9	1413.3	1421.9	1436.8	1413.3	1405.5	1419.6	1434.5	1436.0
37.5°	1523.7	1521.4	1508.8	1493.2	1492.4	1508.1	1483.8	1483.0	1509.6	1527.6	1530.0
40°	1635.7	1638.0	1622.4	1607.5	1599.7	1612.2	1593.4	1600.5	1626.3	1646.6	1645.1
42.5°	1793.1	1784.5	1760.2	1746.1	1737.5	1732.8	1728.1	1739.0	1768.0	1789.9	1807.2
45°	1977.1	1973.9	1943.4	1926.2	1907.4	1900.3	1898.8	1918.4	1953.6	1980.2	1982.6
47.5°	2185.4	2178.3	2158.7	2140.7	2133.7	2125.1	2117.2	2132.1	2167.3	2186.1	2191.6
50°	2399.9	2401.5	2401.5	2398.3	2405.4	2406.9	2385.8	2391.3	2410.9	2409.3	2407.7
52.5°	2645.0	2653.6	2694.3	2698.2	2731.9	2754.6	2716.2	2693.5	2686.5	2644.2	2647.3
55°	2933.1	2940.9	3002.0	3063.1	3153.9	3192.3	3111.6	3041.2	2991.1	2926.9	2930.0
57.5°	3292.5	3296.4	3354.4	3471.8	3615.9	3705.9	3564.2	3424.8	3323.1	3262.0	3237.7
60°	3679.3	3683.2	3767.8	3911.1	4135.0	4244.6	4069.3	3841.4	3713.0	3619.8	3626.1
62.5°	4143.6	4159.3	4235.2	4432.6	4704.3	4827.2	4594.6	4290.1	4116.2	4000.3	4005.0
65°	4640.8	4667.5	4750.5	4967.4	5217.9	5350.2	5065.2	4713.7	4497.6	4355.8	4370.7
67.5°	4963.4	4986.9	5106.7	5346.3	5658.7	5768.4	5400.4	4990.8	4720.7	4551.6	4520.3
70°	4881.2	4900.8	5060.5	5400.4	5863.1	6001.7	5480.2	4950.1	4632.2	4437.3	4424.7
72.5°	4308.8	4268.1	4501.5	4989.3	5629.8	5862.3	5228.9	4521.0	4120.9	3920.5	3897.0
75°	2855.6	2944.1	3288.6	3863.3	4763.0	5051.1	4463.1	3630.0	3126.5	2959.7	2933.9
77.5°	954.5	1022.6	1328.8	2190.1	3247.1	3680.1	3251.8	2374.1	1679.5	1353.0	1359.3
80°	252.9	249.8	323.4	602.1	1403.1	2131.3	1633.3	804.1	440.0	318.7	302.2
82.5°	90.8	101.8	130.8	166.8	371.9	662.4	467.5	225.5	165.2	122.1	118.2
85°	39.9	39.2	56.4	66.6	93.2	123.7	109.6	95.5	83.8	55.6	51.7
87.5°	8.6	8.6	13.3	10.2	16.4	16.4	20.4	24.3	25.1	16.4	13.3
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)