

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: P647261

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647261
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-SA2D-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12748.8 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

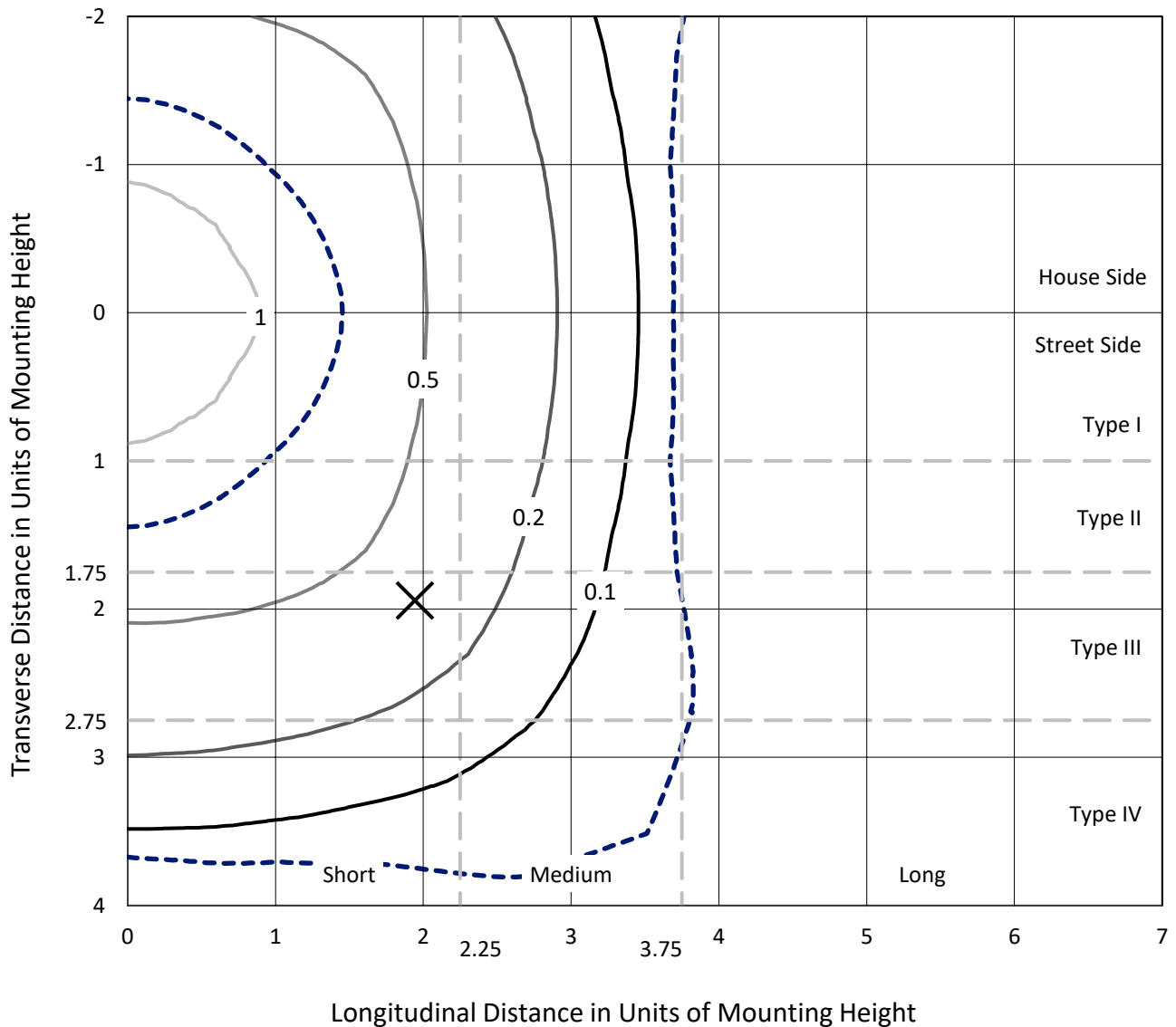
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

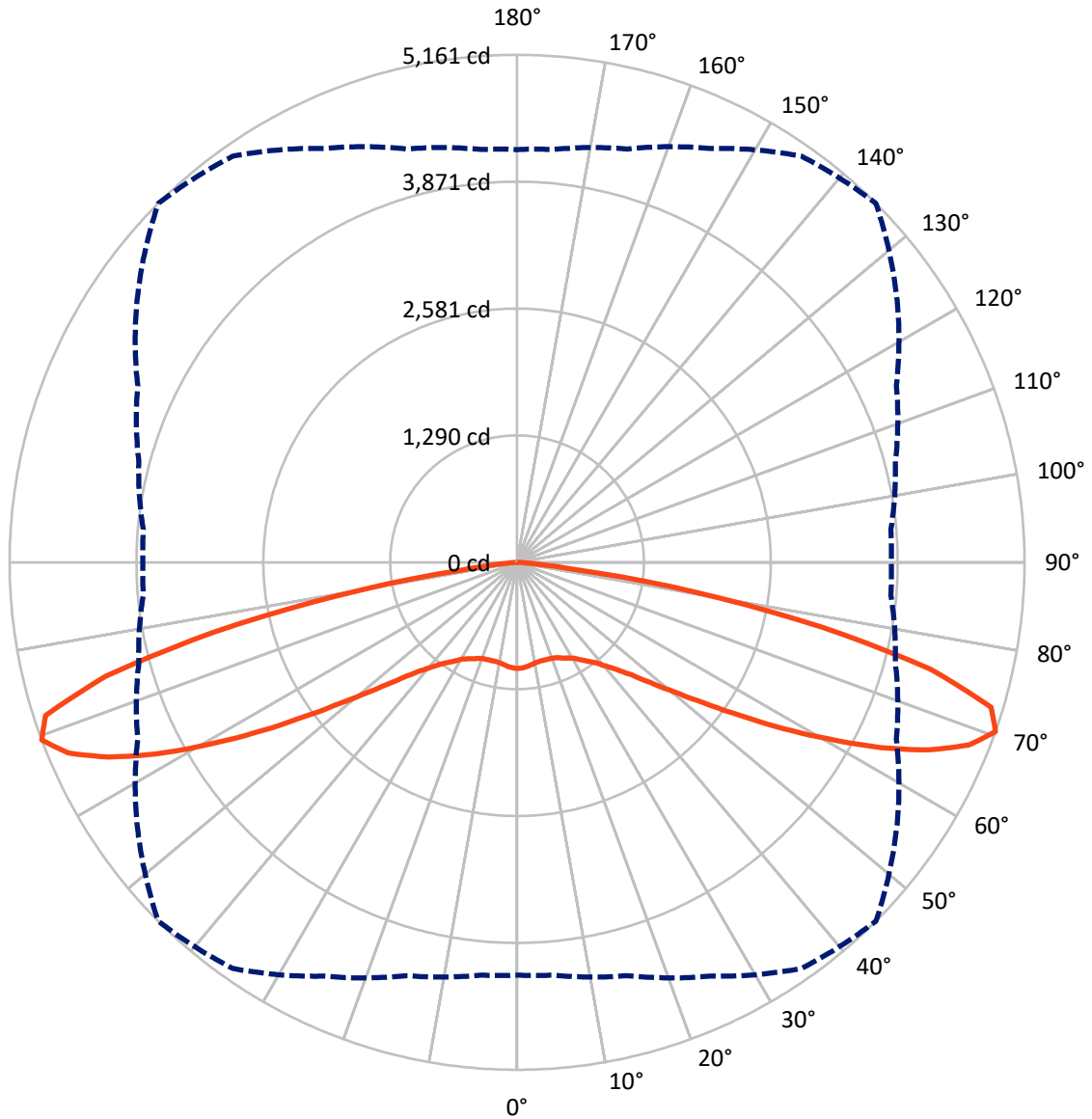
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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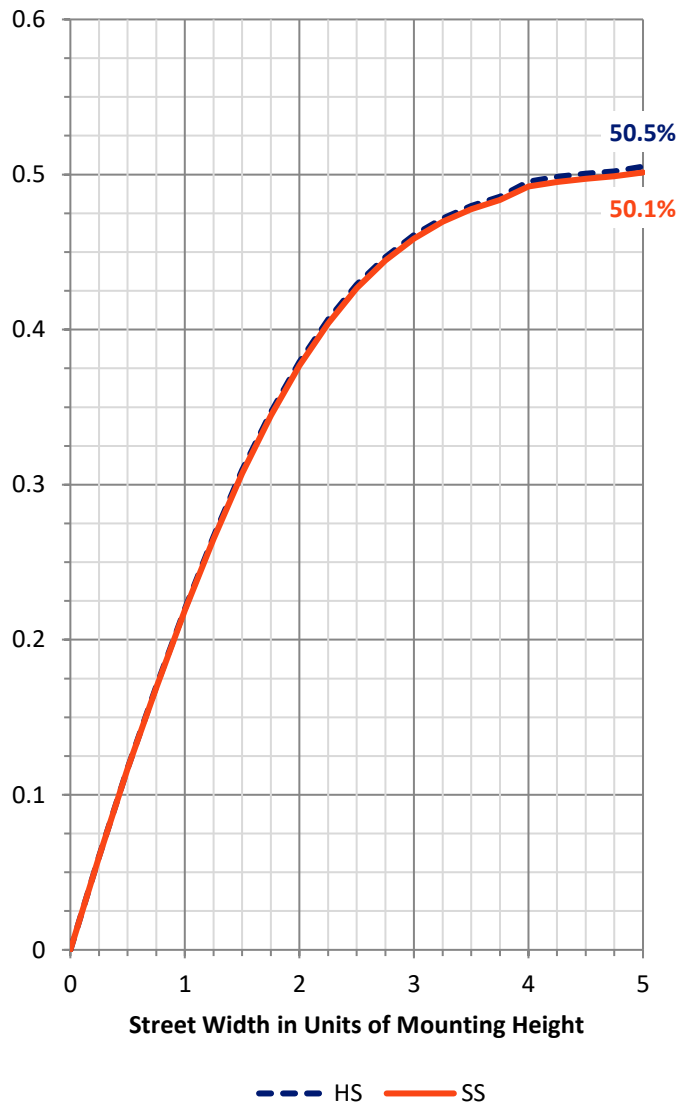
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6374.4	0.0	6374.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6374.4	0.0	6374.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12748.8	0.0	12748.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	0.8
10°-20°	295.5	2.3
20°-30°	503.5	3.9
30°-40°	780.4	6.1
40°-50°	1313.5	10.3
50°-60°	2389.8	18.7
60°-70°	4045.9	31.7
70°-80°	3131.7	24.6
80°-90°	187.7	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°	12748.8	100.0
0°-180°	12748.8	100.0

Coefficient of Utilization

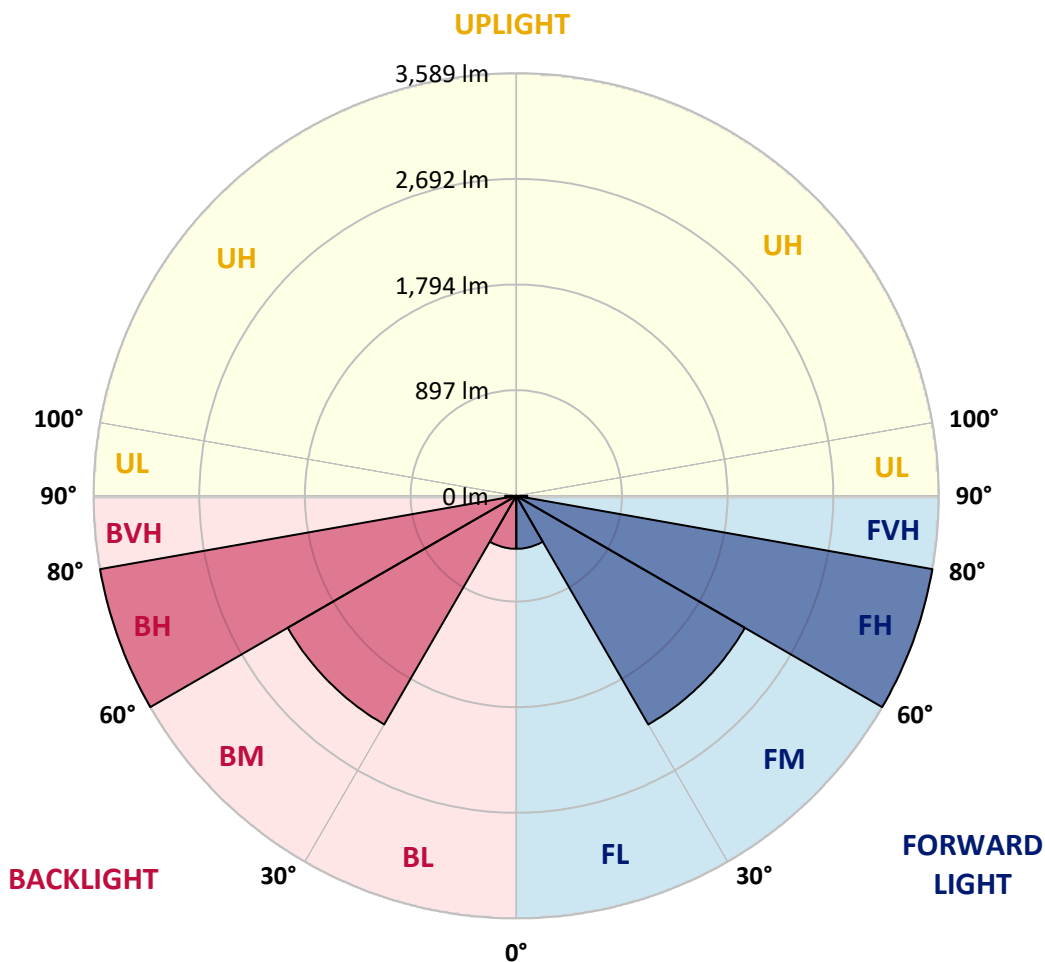


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.0	3.5			
FM (30°-60°)	2241.8	17.6			
FH (60°-80°)	3588.8	28.2			G2/5000
FVH (80°-90°)	93.8	0.7			G1/100
BL (0°-30°)	450.0	3.5	B1/500		
BM (30°-60°)	2241.8	17.6	B2/2500		
BH (60°-80°)	3588.8	28.2	B4/5000		G2/5000
BVH (80°-90°)	93.8	0.7			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°	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4	1079.4
2.5°	1076.6	1077.3	1077.3	1076.0	1075.3	1075.3	1074.7	1074.7	1076.6	1077.3	1078.0
5°	1067.2	1067.2	1067.2	1066.5	1065.2	1065.2	1063.9	1063.9	1064.6	1066.5	1065.2
7.5°	1054.5	1055.8	1055.8	1053.1	1051.1	1051.1	1050.4	1051.1	1051.7	1053.8	1053.1
10°	1050.4	1051.1	1047.7	1043.0	1039.6	1037.6	1038.3	1039.6	1043.0	1044.4	1045.0
12.5°	1053.1	1053.1	1047.0	1040.3	1034.3	1031.5	1030.9	1035.6	1041.6	1045.7	1047.0
15°	1056.4	1055.1	1047.7	1039.0	1032.9	1032.2	1031.5	1034.9	1043.7	1051.7	1052.4
17.5°	1058.5	1057.8	1048.4	1037.6	1034.3	1034.3	1033.6	1036.2	1045.7	1055.8	1056.4
20°	1065.2	1063.2	1052.4	1041.0	1038.3	1039.6	1037.6	1041.0	1051.1	1063.2	1065.9
22.5°	1078.7	1076.6	1065.9	1054.5	1053.1	1053.1	1052.4	1055.8	1066.5	1079.4	1081.4
25°	1094.8	1092.8	1082.7	1074.7	1076.0	1078.7	1077.3	1078.0	1086.7	1097.5	1100.9
27.5°	1116.4	1113.0	1104.3	1097.5	1101.5	1101.5	1101.5	1100.9	1106.3	1116.4	1119.8
30°	1142.6	1141.3	1131.8	1131.2	1134.6	1131.2	1131.2	1131.8	1132.5	1141.9	1145.3
32.5°	1177.0	1174.3	1169.6	1168.2	1177.6	1180.4	1170.9	1162.1	1166.9	1176.3	1178.3
35°	1233.5	1229.5	1222.7	1215.4	1222.7	1235.6	1215.4	1208.6	1220.8	1233.5	1234.9
37.5°	1310.3	1308.2	1297.5	1284.0	1283.3	1296.8	1276.0	1275.3	1298.1	1313.6	1315.7
40°	1406.6	1408.6	1395.1	1382.3	1375.6	1386.4	1370.2	1376.3	1398.5	1416.0	1414.6
42.5°	1541.9	1534.5	1513.6	1501.5	1494.1	1490.0	1486.1	1495.5	1520.4	1539.2	1554.0
45°	1700.1	1697.5	1671.2	1656.4	1640.2	1634.2	1632.8	1649.6	1679.9	1702.9	1704.8
47.5°	1879.3	1873.2	1856.3	1840.9	1834.8	1827.4	1820.7	1833.5	1863.8	1879.9	1884.6
50°	2063.8	2065.1	2065.1	2062.4	2068.5	2069.8	2051.6	2056.3	2073.1	2071.8	2070.5
52.5°	2274.5	2281.9	2316.9	2320.3	2349.2	2368.7	2335.8	2316.3	2310.2	2273.8	2276.5
55°	2522.3	2529.0	2581.6	2634.1	2712.2	2745.1	2675.8	2615.2	2572.1	2516.9	2519.6
57.5°	2831.3	2834.7	2884.5	2985.5	3109.4	3186.9	3065.0	2945.1	2857.6	2805.1	2784.2
60°	3163.9	3167.3	3240.1	3363.3	3555.8	3650.1	3499.3	3303.3	3192.9	3112.8	3118.1
62.5°	3563.3	3576.7	3642.0	3811.7	4045.4	4151.1	3951.1	3689.2	3539.7	3440.0	3444.1
65°	3990.8	4013.7	4085.1	4271.6	4487.1	4600.8	4355.8	4053.4	3867.6	3745.7	3758.5
67.5°	4268.2	4288.4	4391.5	4597.5	4866.1	4960.4	4643.9	4291.8	4059.5	3914.1	3887.1
70°	4197.5	4214.3	4351.7	4643.9	5041.9	5161.1	4712.6	4256.8	3983.4	3815.7	3805.0
72.5°	3705.3	3670.3	3870.9	4290.4	4841.2	5041.2	4496.5	3887.8	3543.7	3371.4	3351.2
75°	2455.6	2531.7	2828.0	3322.2	4095.9	4343.6	3838.0	3121.5	2688.6	2545.1	2523.0
77.5°	820.8	879.4	1142.6	1883.3	2792.3	3164.7	2796.3	2041.5	1444.3	1163.5	1168.9
80°	217.5	214.8	278.1	517.8	1206.6	1832.8	1404.5	691.5	378.4	274.0	259.9
82.5°	78.1	87.5	112.4	143.4	319.9	569.6	402.0	193.9	142.0	105.0	101.6
85°	34.4	33.7	48.5	57.2	80.1	106.4	94.3	82.1	72.0	47.8	44.5
87.5°	7.4	7.4	11.4	8.8	14.2	14.2	17.5	20.9	21.5	14.2	11.4
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)