

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: P651221

Luminaire Tested: **GALN-SA2D-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651221
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-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 13693.2 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

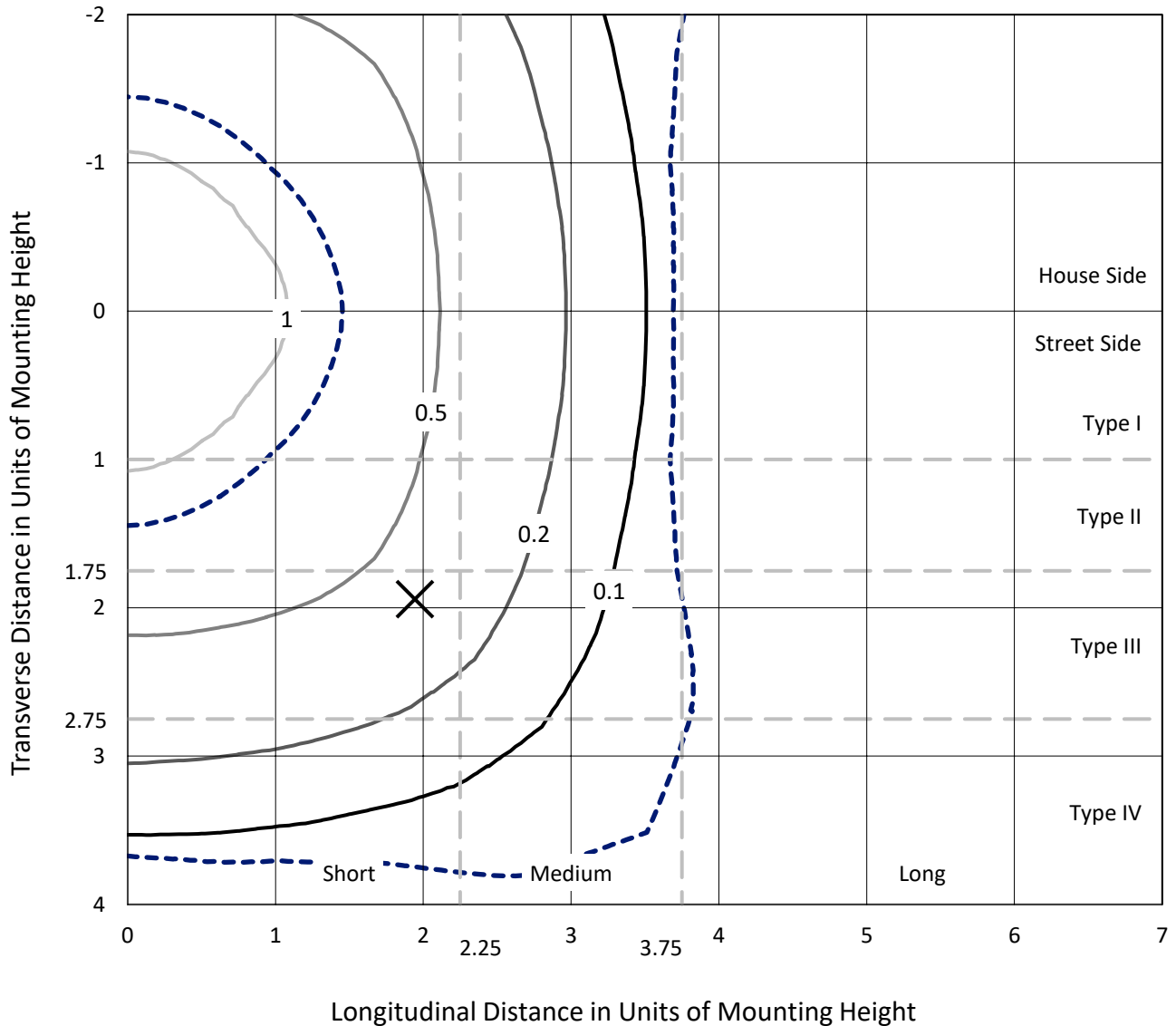
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

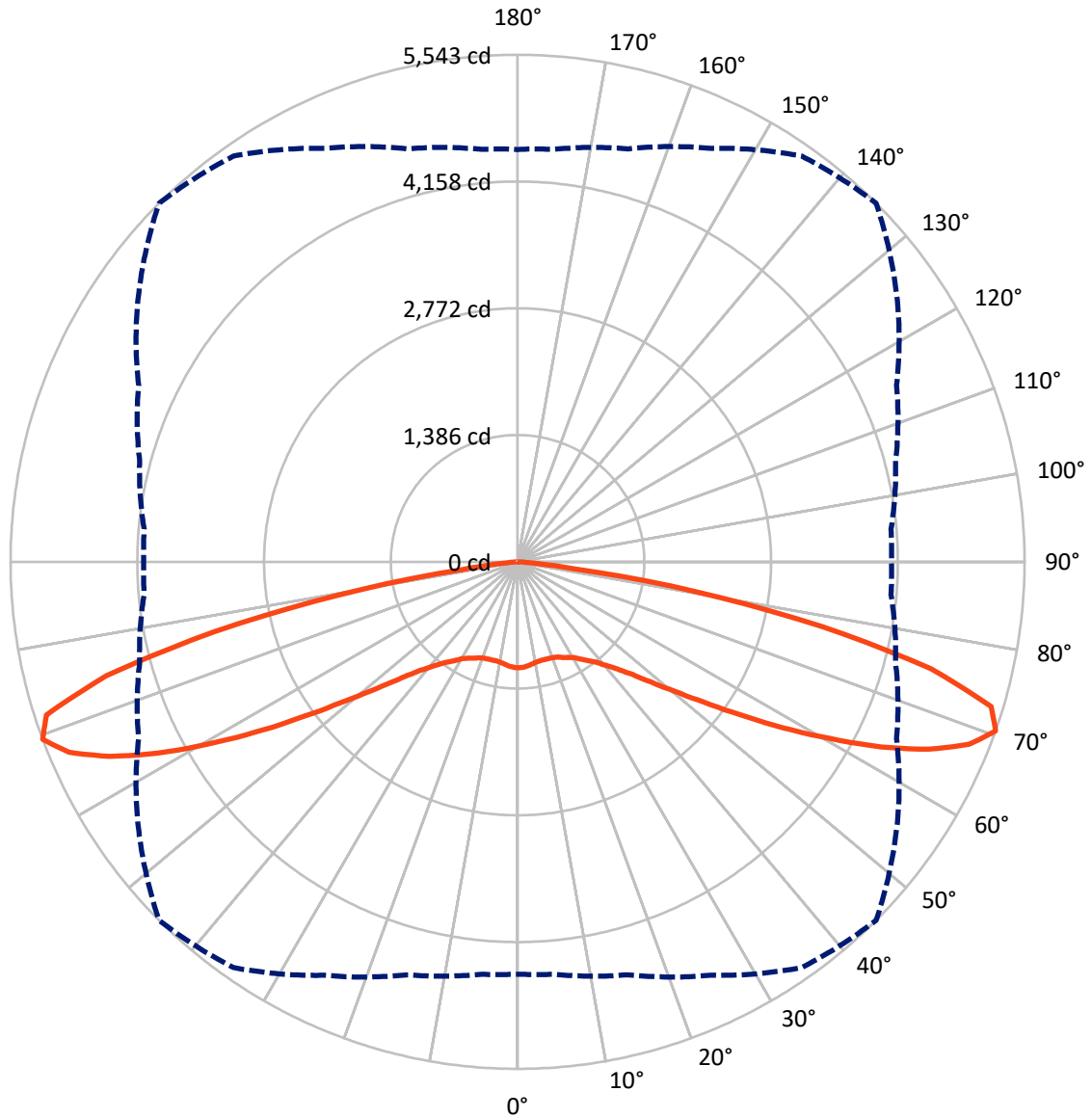
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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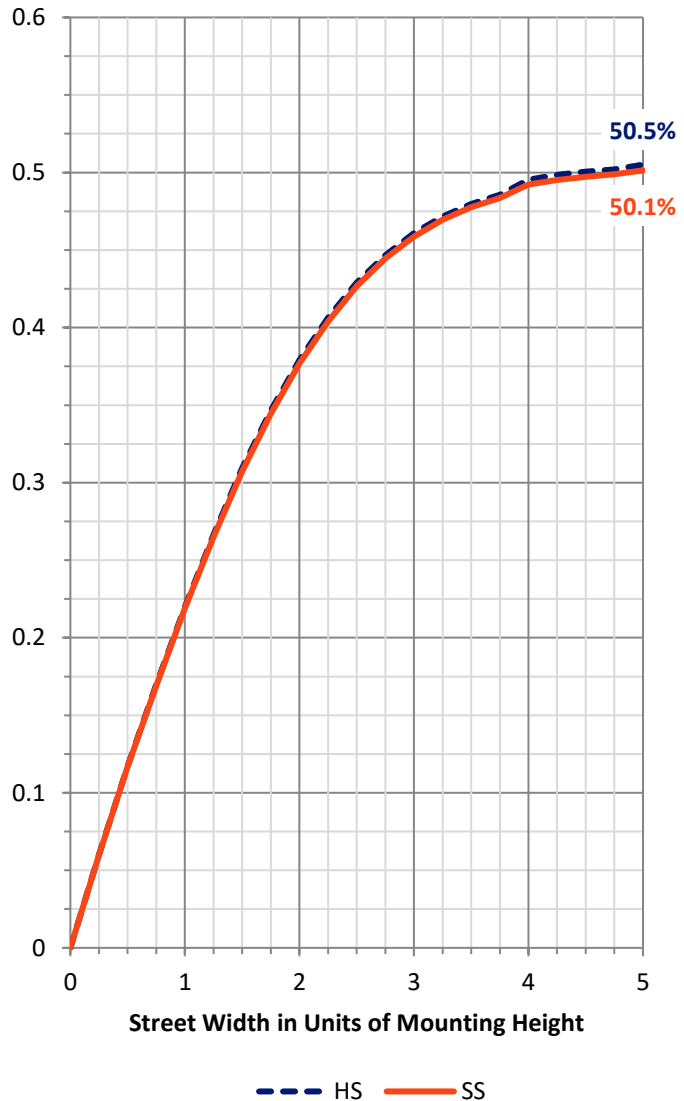
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6846.6	0.0	6846.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6846.6	0.0	6846.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13693.2	0.0	13693.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	0.8
10°-20°	317.4	2.3
20°-30°	540.8	3.9
30°-40°	838.2	6.1
40°-50°	1410.8	10.3
50°-60°	2566.8	18.7
60°-70°	4345.6	31.7
70°-80°	3363.7	24.6
80°-90°	201.6	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°	13693.2	100.0
0°-180°	13693.2	100.0

Coefficient of Utilization



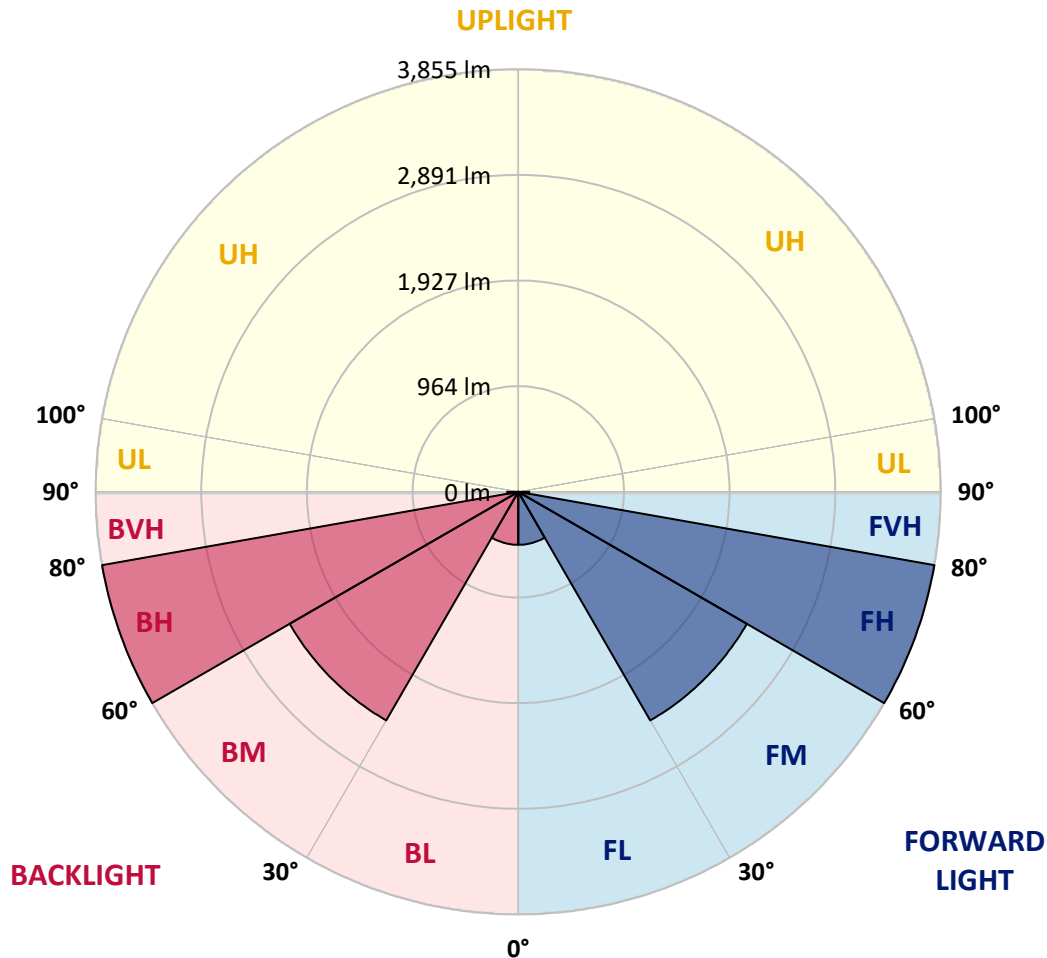
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.3	3.5			
FM (30°-60°)	2407.9	17.6			
FH (60°-80°)	3854.6	28.1			G2/5000
FVH (80°-90°)	100.8	0.7			G2/225
BL (0°-30°)	483.3	3.5	B1/500		
BM (30°-60°)	2407.9	17.6	B2/2500		
BH (60°-80°)	3854.6	28.1	B4/5000		G2/5000
BVH (80°-90°)	100.8	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°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3
2.5°	1156.4	1157.1	1157.1	1155.7	1154.9	1154.9	1154.3	1154.3	1156.4	1157.1	1157.9
5°	1146.3	1146.3	1146.3	1145.5	1144.1	1144.1	1142.7	1142.7	1143.4	1145.5	1144.1
7.5°	1132.6	1134.0	1134.0	1131.1	1129.0	1129.0	1128.2	1129.0	1129.6	1131.8	1131.1
10°	1128.2	1129.0	1125.3	1120.2	1116.6	1114.5	1115.2	1116.6	1120.2	1121.7	1122.4
12.5°	1131.1	1131.1	1124.6	1117.4	1110.9	1107.9	1107.3	1112.3	1118.8	1123.2	1124.6
15°	1134.7	1133.2	1125.3	1115.9	1109.4	1108.7	1107.9	1111.5	1121.0	1129.6	1130.4
17.5°	1136.9	1136.2	1126.0	1114.5	1110.9	1110.9	1110.1	1113.0	1123.2	1134.0	1134.7
20°	1144.1	1141.9	1130.4	1118.1	1115.2	1116.6	1114.5	1118.1	1129.0	1141.9	1144.9
22.5°	1158.6	1156.4	1144.9	1132.6	1131.1	1131.1	1130.4	1134.0	1145.5	1159.3	1161.5
25°	1175.9	1173.8	1162.9	1154.3	1155.7	1158.6	1157.1	1157.9	1167.2	1178.8	1182.4
27.5°	1199.1	1195.5	1186.1	1178.8	1183.1	1183.1	1183.1	1182.4	1188.2	1199.1	1202.7
30°	1227.3	1225.8	1215.7	1215.0	1218.6	1215.0	1215.0	1215.7	1216.4	1226.5	1230.1
32.5°	1264.2	1261.2	1256.2	1254.8	1264.9	1267.8	1257.6	1248.2	1253.3	1263.4	1265.6
35°	1324.9	1320.5	1313.3	1305.4	1313.3	1327.1	1305.4	1298.2	1311.2	1324.9	1326.3
37.5°	1407.3	1405.1	1393.6	1379.2	1378.4	1392.9	1370.5	1369.7	1394.3	1410.9	1413.1
40°	1510.8	1513.0	1498.5	1484.7	1477.5	1489.1	1471.8	1478.2	1502.1	1520.9	1519.4
42.5°	1656.1	1648.2	1625.7	1612.7	1604.8	1600.4	1596.1	1606.2	1633.0	1653.2	1669.1
45°	1826.1	1823.2	1795.0	1779.1	1761.7	1755.3	1753.7	1771.8	1804.4	1829.0	1831.1
47.5°	2018.5	2011.9	1993.8	1977.3	1970.7	1962.8	1955.6	1969.3	2001.8	2019.2	2024.2
50°	2216.6	2218.1	2218.1	2215.2	2221.7	2223.1	2203.6	2208.6	2226.7	2225.3	2223.9
52.5°	2442.9	2450.9	2488.5	2492.1	2523.3	2544.2	2508.8	2487.8	2481.3	2442.3	2445.1
55°	2709.1	2716.3	2772.8	2829.2	2913.1	2948.5	2874.0	2808.9	2762.6	2703.3	2706.3
57.5°	3041.1	3044.7	3098.2	3206.6	3339.8	3423.0	3292.0	3163.3	3069.3	3012.9	2990.4
60°	3398.3	3401.9	3480.1	3612.4	3819.2	3920.5	3758.5	3548.0	3429.4	3343.4	3349.1
62.5°	3827.2	3841.7	3911.8	4094.1	4345.0	4458.6	4243.8	3962.5	3801.9	3694.8	3699.2
65°	4286.4	4311.1	4387.7	4588.0	4819.4	4941.6	4678.4	4353.7	4154.0	4023.2	4036.9
67.5°	4584.4	4606.1	4716.7	4938.0	5226.6	5327.8	4987.9	4609.7	4360.2	4204.0	4175.1
70°	4508.4	4526.5	4674.0	4987.9	5415.4	5543.4	5061.7	4572.1	4278.5	4098.4	4086.8
72.5°	3979.8	3942.2	4157.7	4608.3	5199.8	5414.6	4829.5	4175.7	3806.2	3621.1	3599.4
75°	2637.5	2719.2	3037.4	3568.3	4399.3	4665.4	4122.2	3352.7	2887.7	2733.7	2709.9
77.5°	881.6	944.5	1227.3	2022.8	2999.1	3399.1	3003.5	2192.7	1551.3	1249.7	1255.4
80°	233.6	230.7	298.7	556.2	1296.0	1968.5	1508.6	742.7	406.5	294.3	279.1
82.5°	83.9	94.0	120.8	154.1	343.5	611.8	431.8	208.3	152.6	112.8	109.2
85°	36.9	36.2	52.1	61.5	86.0	114.3	101.3	88.2	77.4	51.4	47.8
87.5°	8.0	8.0	12.3	9.4	15.2	15.2	18.8	22.5	23.1	15.2	12.3
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)