

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: P650697

Luminaire Tested: **GALN-SA1C-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5972 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

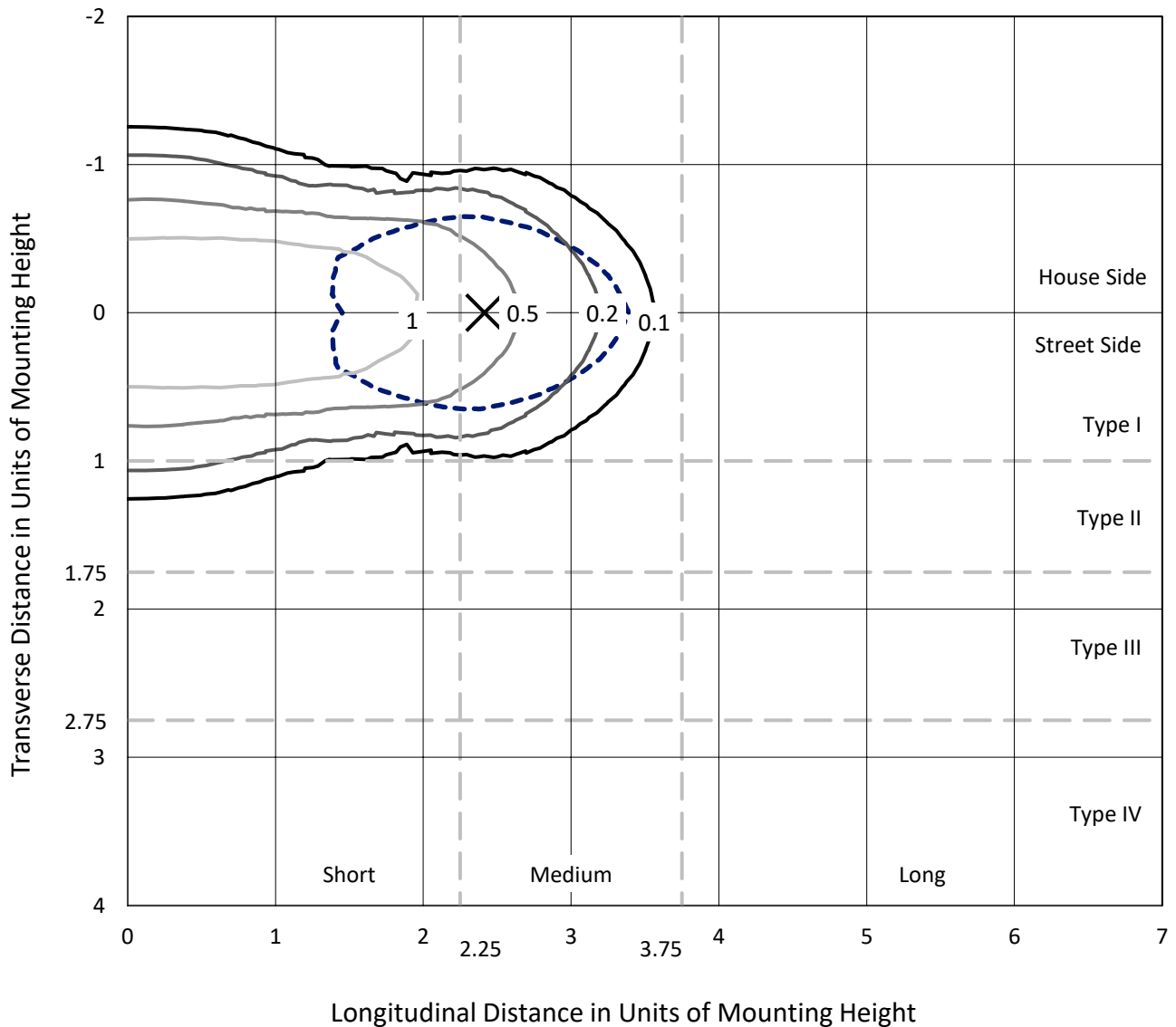
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

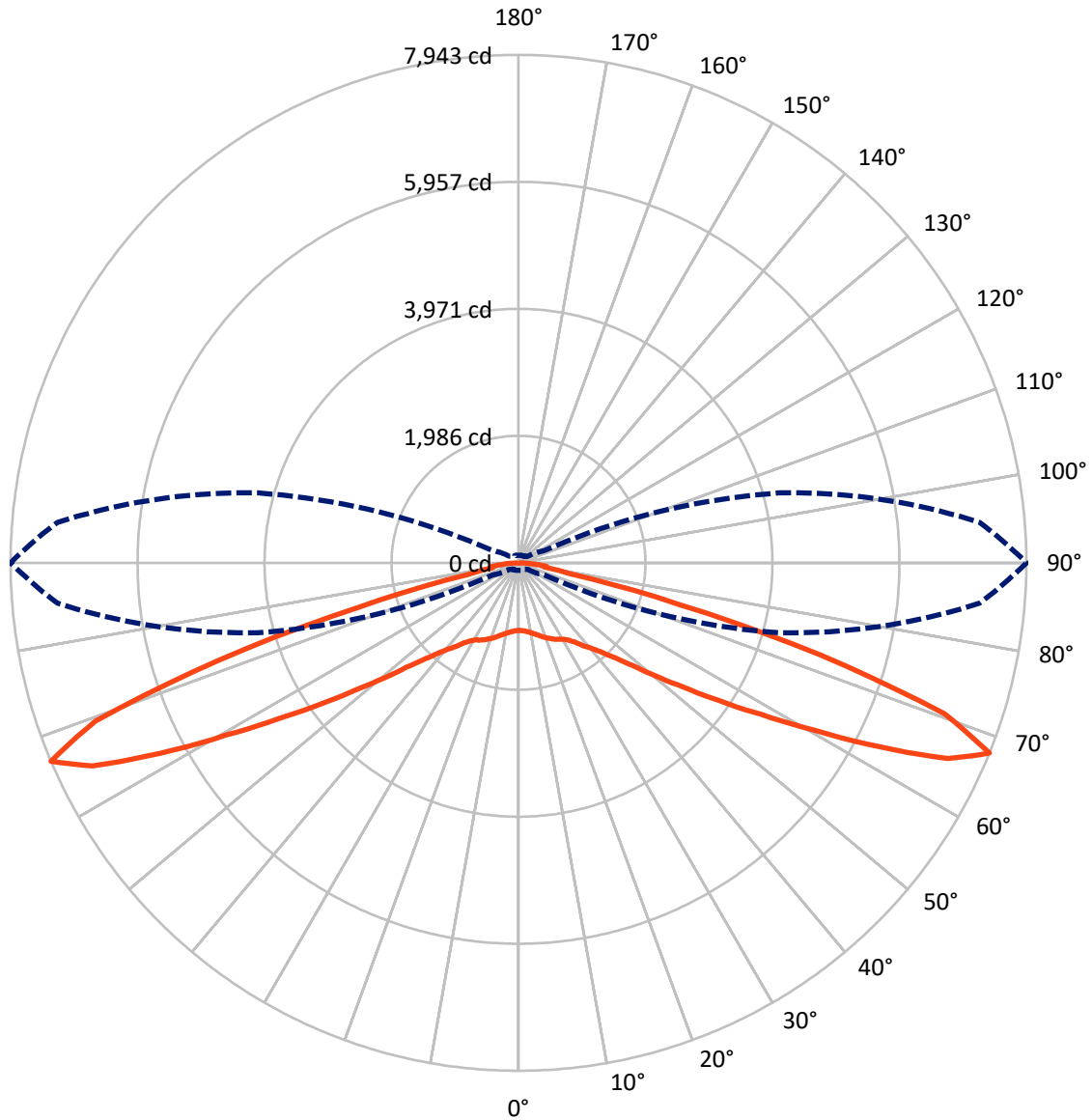
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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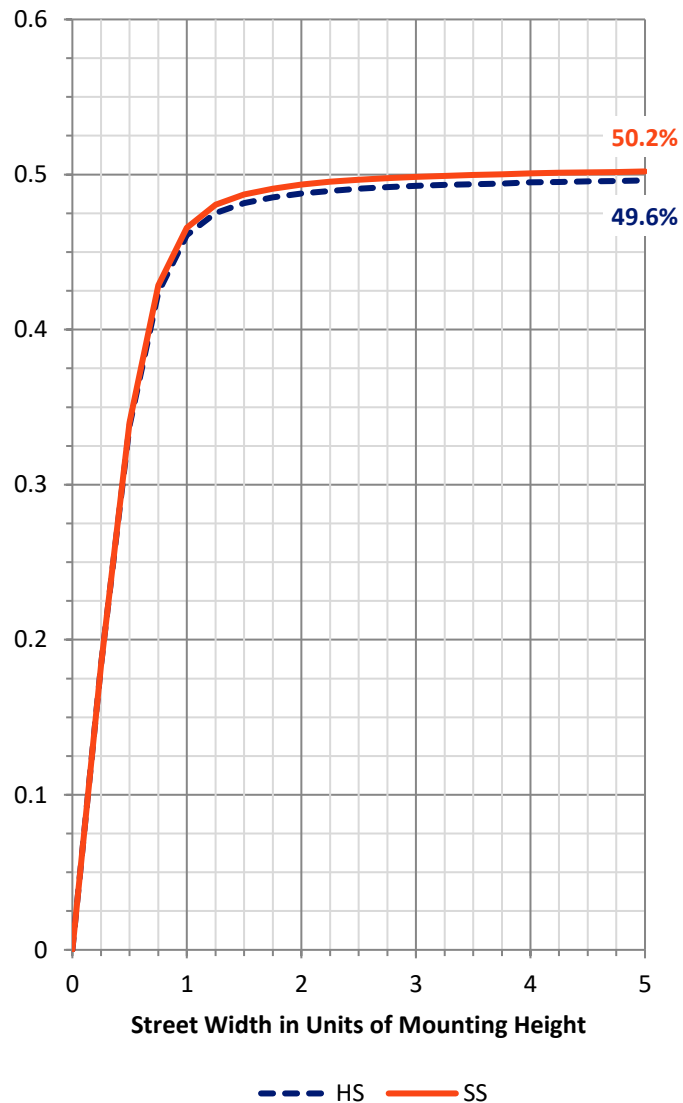
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2986.0	0.0	2986.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2986.0	0.0	2986.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5972.0	0.0	5972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	1.8
10°-20°	337.2	5.6
20°-30°	564.5	9.5
30°-40°	764.7	12.8
40°-50°	968.6	16.2
50°-60°	1210.0	20.3
60°-70°	1422.3	23.8
70°-80°	544.1	9.1
80°-90°	55.1	0.9
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°	5972.0	100.0
0°-180°	5972.0	100.0

**Coefficient of Utilization**

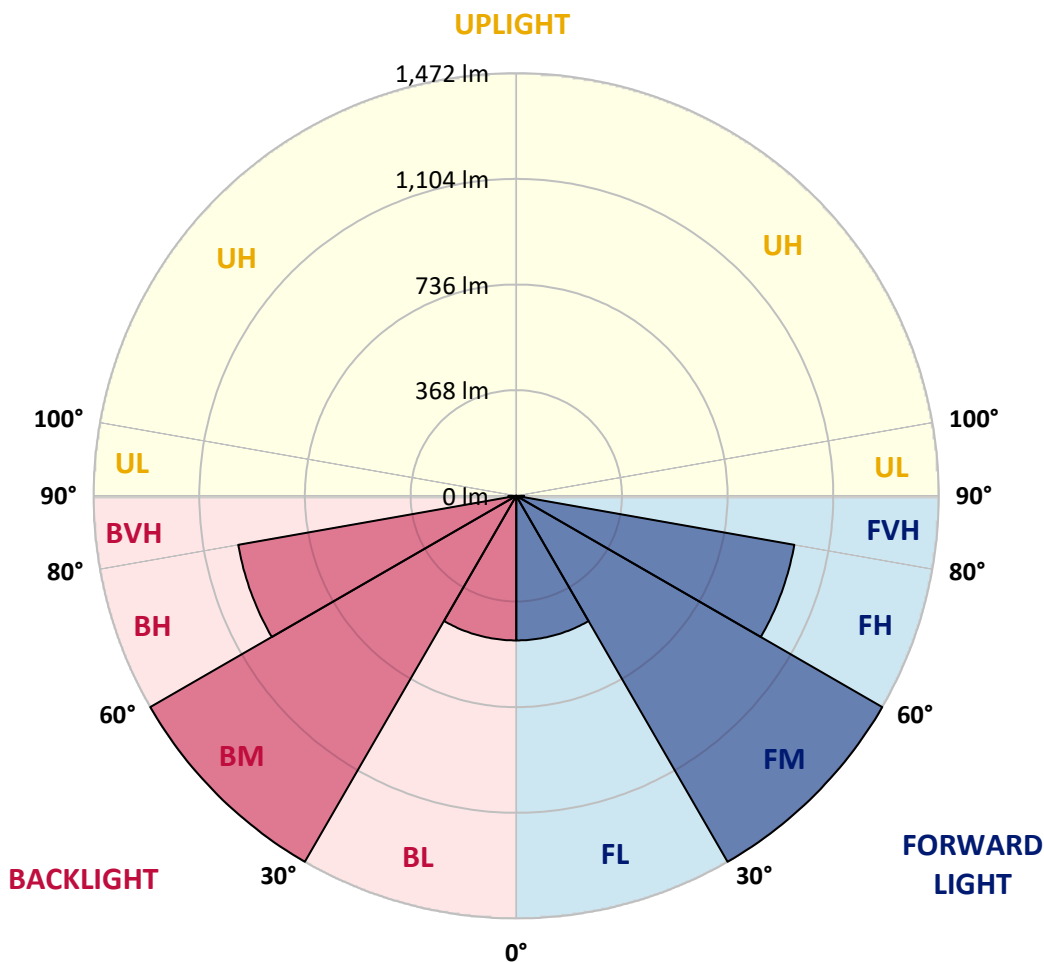


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.5	8.4			
FM (30°-60°)	1471.7	24.6			
FH (60°-80°)	983.2	16.5			G1/1800
FVH (80°-90°)	27.6	0.5			G1/100
BL (0°-30°)	503.5	8.4	B2/1000		
BM (30°-60°)	1471.7	24.6	B2/2500		
BH (60°-80°)	983.2	16.5	B2/1000		G2/1000
BVH (80°-90°)	27.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1057.2	1057.2	1057.2	1057.2	1057.2	1057.2	1057.2	1057.2	1057.2	1057.2	1057.2
2.5°	1070.8	1070.1	1070.4	1070.1	1071.1	1070.4	1066.5	1063.2	1060.5	1060.8	1059.8
5°	1093.6	1093.9	1094.2	1092.6	1094.9	1093.6	1087.3	1082.0	1076.7	1074.7	1074.1
7.5°	1112.5	1114.1	1115.1	1116.8	1120.7	1120.7	1117.4	1109.8	1098.3	1091.6	1091.3
10°	1131.3	1132.7	1135.6	1140.9	1147.5	1153.8	1152.4	1142.2	1127.4	1116.1	1113.4
12.5°	1137.9	1139.6	1149.5	1164.7	1179.6	1191.8	1191.8	1183.5	1164.4	1147.2	1142.2
15°	1114.7	1117.8	1135.6	1168.0	1207.0	1233.8	1239.8	1228.2	1207.7	1181.3	1175.3
17.5°	1068.8	1076.1	1102.2	1150.2	1215.0	1270.5	1287.7	1282.1	1255.6	1221.9	1215.0
20°	1019.5	1027.4	1055.2	1118.7	1208.3	1292.0	1342.0	1343.2	1310.5	1261.6	1251.3
22.5°	965.3	971.3	1006.9	1081.4	1188.5	1297.0	1388.6	1411.4	1367.0	1301.3	1286.7
25°	904.4	911.1	948.4	1028.8	1151.2	1291.4	1431.2	1481.5	1426.3	1343.6	1325.1
27.5°	846.2	848.9	888.9	970.6	1101.9	1276.8	1462.7	1546.0	1491.8	1378.7	1355.2
30°	790.4	796.6	832.0	912.7	1045.3	1248.4	1489.7	1619.4	1562.2	1415.3	1385.3
32.5°	731.2	738.7	777.1	858.8	988.8	1205.7	1506.3	1699.7	1660.4	1474.9	1442.8
35°	674.3	679.3	718.0	797.3	933.5	1156.1	1509.3	1790.3	1787.0	1565.2	1522.5
37.5°	616.1	623.3	662.4	738.4	875.0	1103.5	1494.4	1886.6	1939.9	1690.5	1644.5
40°	560.2	566.5	604.8	681.5	808.5	1039.4	1459.1	1974.6	2118.1	1819.5	1754.3
42.5°	499.3	501.0	543.0	621.1	743.4	965.0	1408.1	2053.0	2316.8	1992.4	1911.4
45°	430.3	434.5	473.6	550.3	668.7	881.6	1339.0	2117.7	2568.8	2232.2	2121.7
47.5°	361.1	364.7	400.5	476.2	587.0	786.1	1232.5	2174.7	2827.4	2536.7	2391.9
50°	293.7	295.6	324.7	391.9	495.0	685.5	1100.5	2192.8	3119.8	2968.0	2783.1
52.5°	232.1	235.1	257.3	309.8	396.9	566.8	958.0	2147.8	3461.1	3479.2	3218.6
55°	188.1	189.1	205.7	244.4	310.2	442.5	786.1	2022.5	3828.1	4134.3	3802.0
57.5°	162.1	162.7	172.0	193.4	238.8	333.7	609.8	1785.4	4157.8	4901.9	4474.5
60°	147.2	147.5	152.8	165.3	189.1	255.9	436.8	1450.7	4483.2	5756.0	5310.6
62.5°	137.9	137.9	141.5	148.5	160.0	196.5	316.5	1046.6	4706.1	6622.8	6341.0
65°	129.0	129.0	131.6	136.6	142.9	160.7	233.8	682.6	4700.4	7254.0	7377.4
67.5°	118.7	118.7	120.7	125.6	129.3	138.3	180.6	447.1	4222.2	7240.2	7942.9
70°	106.5	106.5	109.2	113.5	116.4	122.0	142.5	305.9	3101.9	6181.9	7063.9
72.5°	94.3	94.6	96.2	100.5	102.9	106.1	118.4	214.3	1902.8	4209.4	4939.2
75°	80.7	81.3	83.0	87.3	89.3	90.6	99.8	152.8	962.6	2269.5	2584.1
77.5°	65.2	66.4	67.4	72.1	73.4	75.4	82.3	110.4	422.6	815.5	822.8
80°	47.6	49.3	52.2	56.5	57.5	58.9	62.8	78.4	191.5	372.4	404.4
82.5°	35.1	37.3	33.7	39.4	39.4	37.7	44.3	52.6	88.0	368.7	441.1
85°	19.2	19.5	17.5	20.2	21.5	21.2	23.5	25.8	42.6	246.0	253.6
87.5°	4.6	5.0	5.3	6.3	7.6	7.6	8.2	7.3	13.9	79.7	45.7
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)