

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: P450670

Luminaire Tested: **GALN-SA1C-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450670  
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-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5939 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

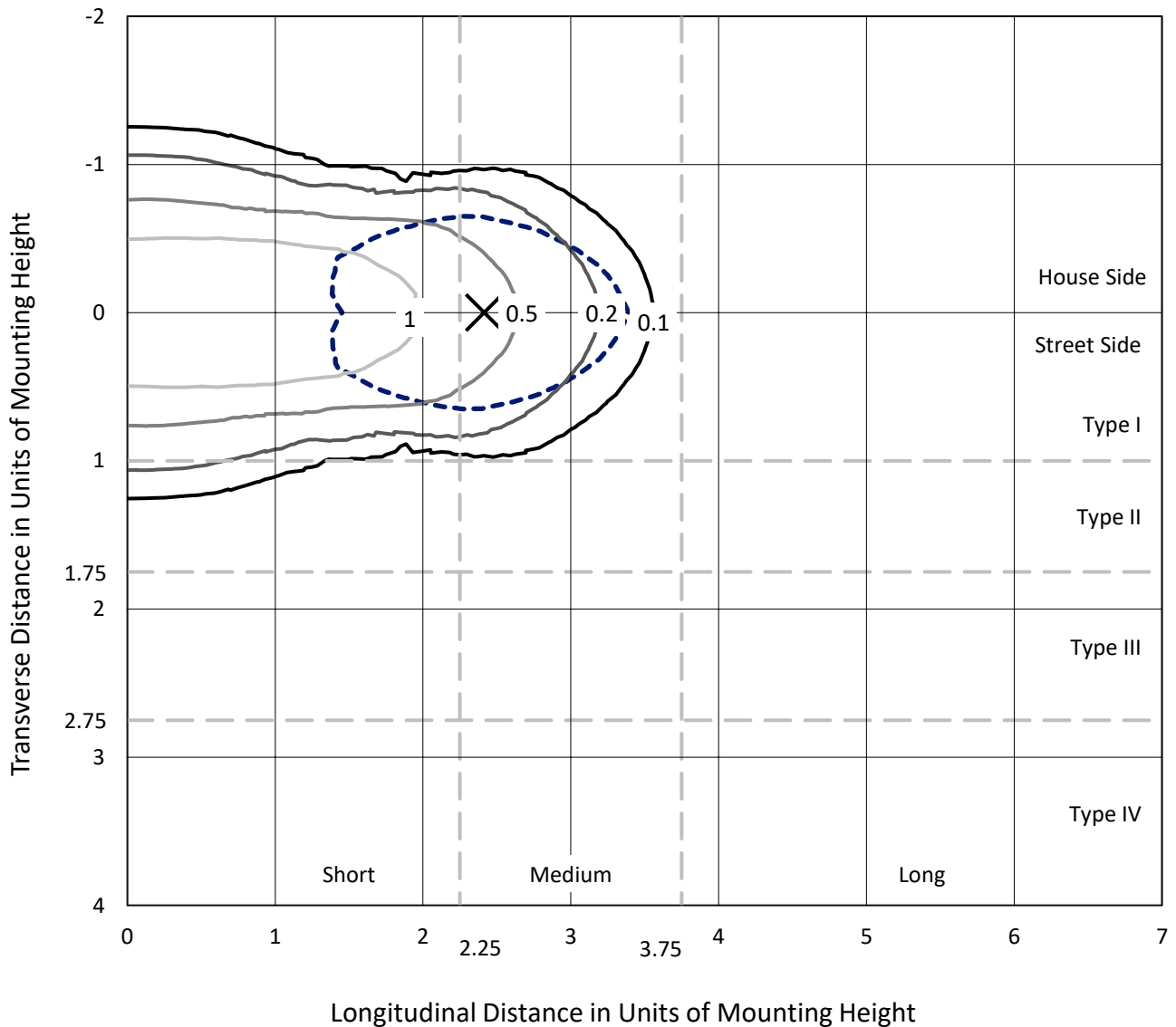
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

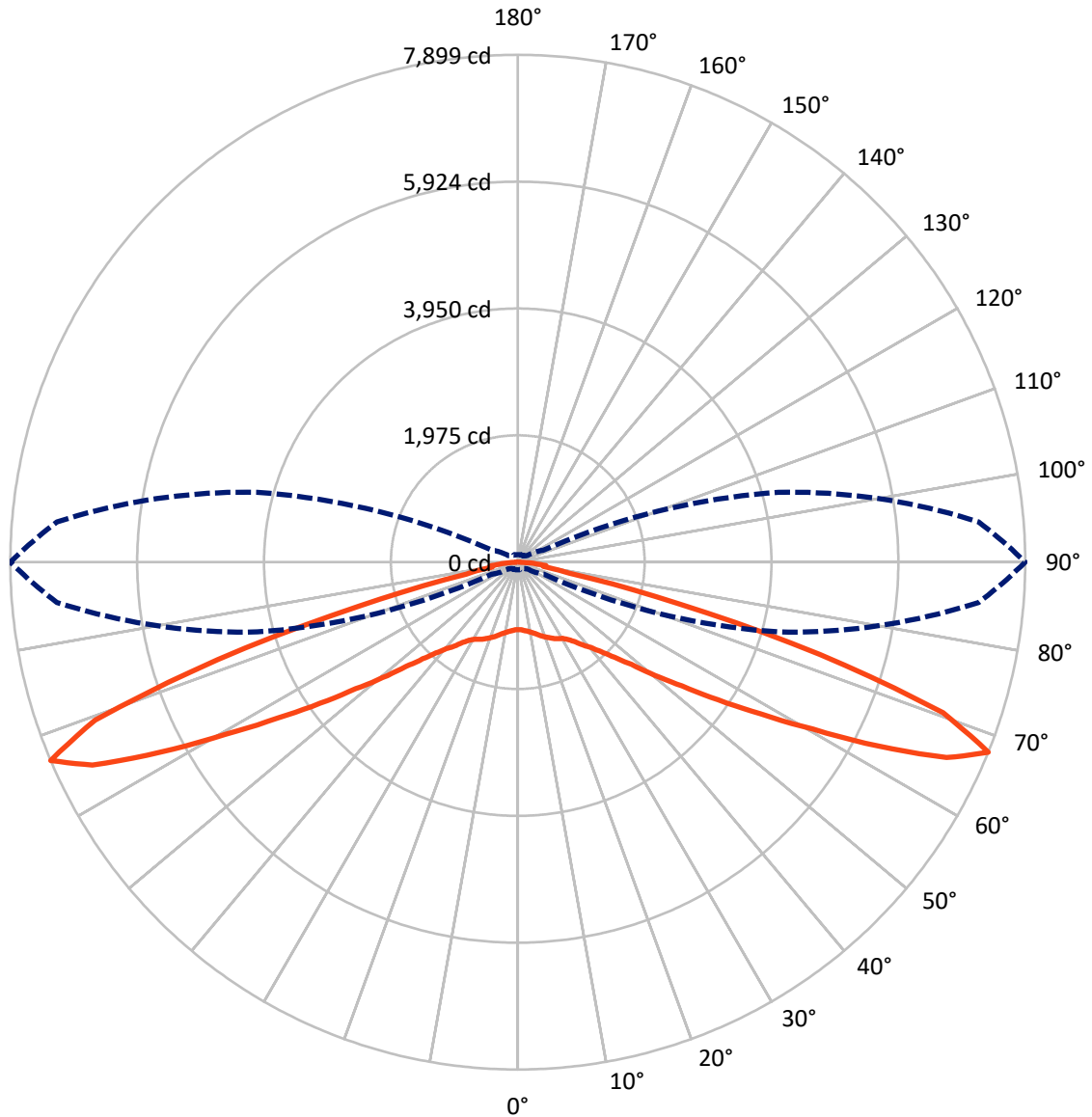
× Max cd  
 - - - 1/2 Max cd



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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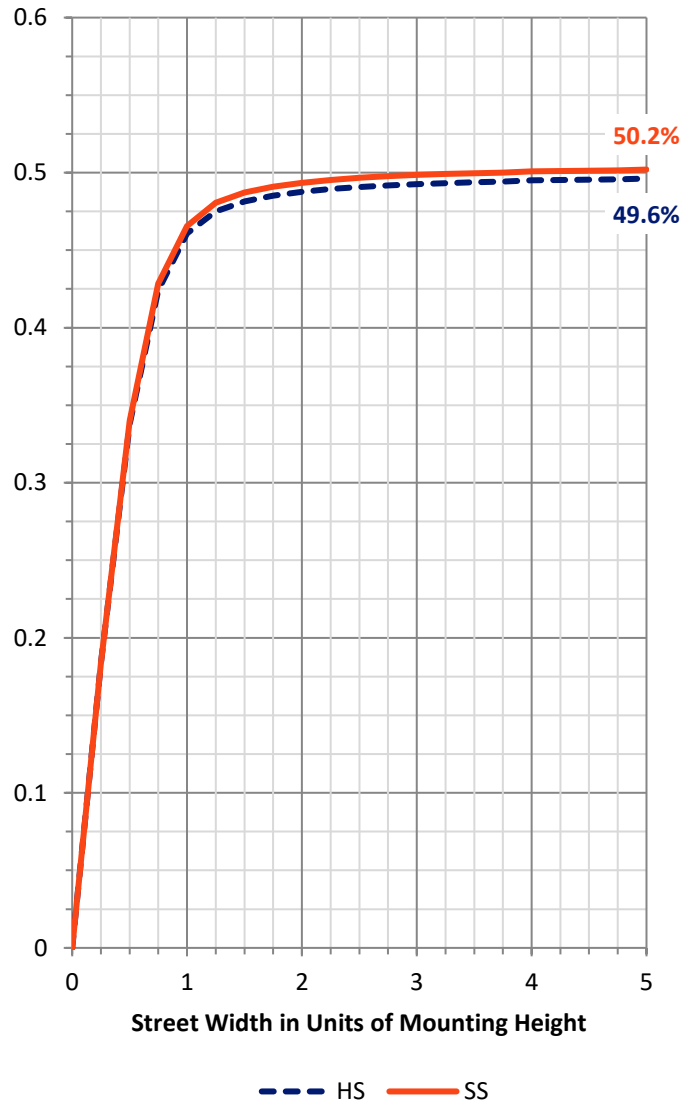
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2969.5	0.0	2969.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2969.5	0.0	2969.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5939.0	0.0	5939.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	1.8
10°-20°	335.4	5.6
20°-30°	561.3	9.5
30°-40°	760.5	12.8
40°-50°	963.2	16.2
50°-60°	1203.3	20.3
60°-70°	1414.5	23.8
70°-80°	541.1	9.1
80°-90°	54.8	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°	5939.0	100.0
0°-180°	5939.0	100.0



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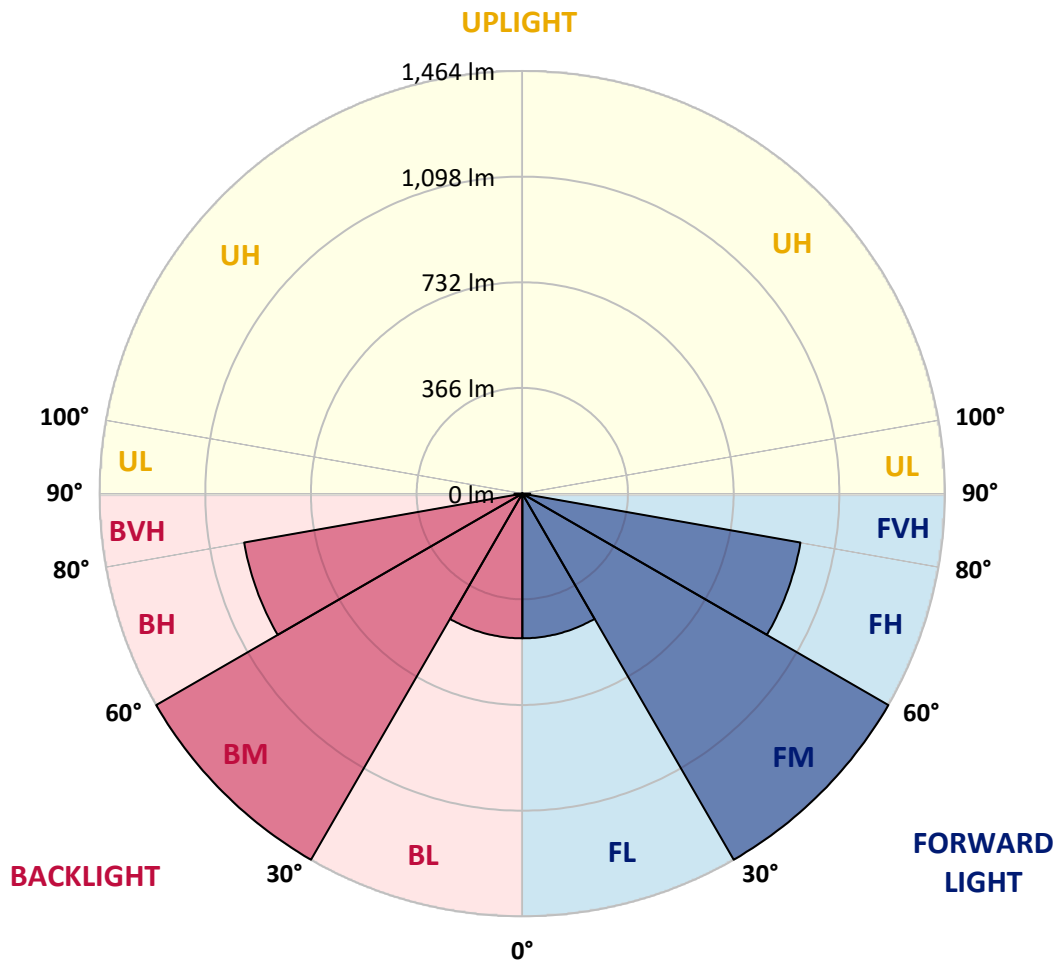
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.8	8.4			
FM	(30°-60°)	1463.5	24.6			
FH	(60°-80°)	977.8	16.5			G1/1800
FVH	(80°-90°)	27.4	0.5			G1/100
BL	(0°-30°)	500.8	8.4	B2/1000		
BM	(30°-60°)	1463.5	24.6	B2/2500		
BH	(60°-80°)	977.8	16.5	B2/1000		G2/1000
BVH	(80°-90°)	27.4	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°	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4	1051.4
2.5°	1064.9	1064.2	1064.5	1064.2	1065.2	1064.5	1060.6	1057.3	1054.7	1055.0	1054.0
5°	1087.6	1087.9	1088.2	1086.6	1088.9	1087.6	1081.3	1076.1	1070.8	1068.8	1068.2
7.5°	1106.3	1108.0	1108.9	1110.6	1114.5	1114.5	1111.2	1103.7	1092.2	1085.6	1085.3
10°	1125.1	1126.4	1129.3	1134.6	1141.2	1147.4	1146.1	1135.9	1121.1	1109.9	1107.3
12.5°	1131.6	1133.3	1143.1	1158.3	1173.1	1185.2	1185.2	1177.0	1157.9	1140.8	1135.9
15°	1108.6	1111.6	1129.3	1161.6	1200.4	1227.0	1232.9	1221.4	1201.0	1174.7	1168.8
17.5°	1062.9	1070.1	1096.1	1143.8	1208.3	1263.5	1280.6	1275.0	1248.7	1215.2	1208.3
20°	1013.9	1021.8	1049.4	1112.6	1201.7	1284.9	1334.5	1335.9	1303.3	1254.6	1244.4
22.5°	960.0	965.9	1001.4	1075.4	1181.9	1289.8	1380.9	1403.6	1359.5	1294.1	1279.6
25°	899.5	906.0	943.2	1023.1	1144.8	1284.2	1423.3	1473.3	1418.4	1336.2	1317.8
27.5°	841.6	844.2	884.0	965.2	1095.8	1269.8	1454.6	1537.5	1483.5	1371.0	1347.7
30°	786.0	792.2	827.4	907.7	1039.5	1241.5	1481.5	1610.5	1553.6	1407.6	1377.6
32.5°	727.1	734.7	772.8	854.1	983.3	1199.0	1498.0	1690.4	1651.2	1466.7	1434.8
35°	670.6	675.5	714.0	792.9	928.4	1149.7	1500.9	1780.5	1777.2	1556.5	1514.1
37.5°	612.7	619.9	658.7	734.4	870.2	1097.4	1486.2	1876.2	1929.1	1681.2	1635.5
40°	557.1	563.3	601.5	677.8	804.1	1033.6	1451.0	1963.7	2106.4	1809.4	1744.6
42.5°	496.6	498.2	540.0	617.6	739.3	959.6	1400.3	2041.6	2304.0	1981.4	1900.9
45°	427.9	432.1	470.9	547.2	665.0	876.8	1331.6	2106.1	2554.6	2219.9	2110.0
47.5°	359.1	362.7	398.3	473.6	583.7	781.7	1225.7	2162.6	2811.8	2522.7	2378.7
50°	292.0	294.0	322.9	389.7	492.3	681.7	1094.5	2180.7	3102.5	2951.6	2767.7
52.5°	230.9	233.8	255.9	308.1	394.6	563.7	952.7	2136.0	3441.9	3460.0	3200.9
55°	187.1	188.1	204.6	243.0	308.5	440.0	781.7	2011.4	3807.0	4111.5	3781.0
57.5°	161.1	161.8	171.0	192.4	237.4	331.8	606.4	1775.6	4134.8	4874.8	4449.9
60°	146.3	146.7	151.9	164.4	188.1	254.5	434.4	1442.7	4458.5	5724.3	5281.3
62.5°	137.1	137.1	140.8	147.7	159.2	195.3	314.7	1040.9	4680.1	6586.2	6306.0
65°	128.3	128.3	130.9	135.8	142.1	159.8	232.5	678.8	4674.5	7214.0	7336.7
67.5°	118.1	118.1	120.0	125.0	128.6	137.5	179.6	444.6	4199.0	7200.2	7899.1
70°	105.9	105.9	108.5	112.8	115.8	121.4	141.7	304.2	3084.8	6147.8	7024.9
72.5°	93.7	94.1	95.7	100.0	102.3	105.6	117.7	213.1	1892.3	4186.1	4912.0
75°	80.2	80.9	82.5	86.8	88.8	90.1	99.3	151.9	957.3	2257.0	2569.8
77.5°	64.8	66.1	67.1	71.7	73.0	75.0	81.9	109.8	420.3	811.0	818.2
80°	47.4	49.0	52.0	56.2	57.2	58.5	62.5	77.9	190.4	370.3	402.2
82.5°	34.9	37.2	33.5	39.1	39.1	37.5	44.1	52.3	87.5	366.7	438.7
85°	19.1	19.4	17.4	20.1	21.4	21.0	23.3	25.7	42.4	244.7	252.2
87.5°	4.6	4.9	5.3	6.2	7.6	7.6	8.2	7.2	13.8	79.3	45.4
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)