

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: P450713

Luminaire Tested: **GALN-SA1C-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7424 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

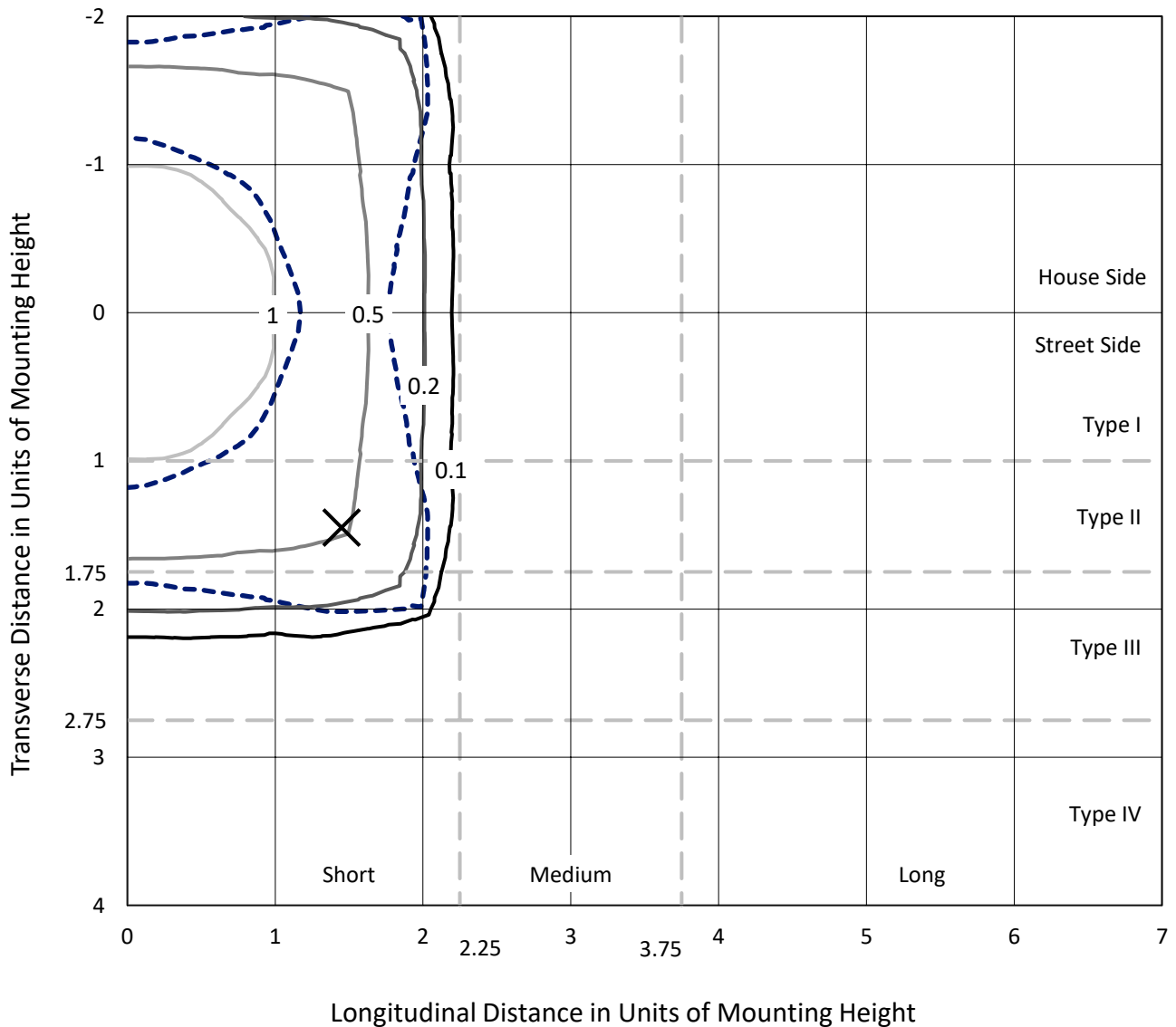
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

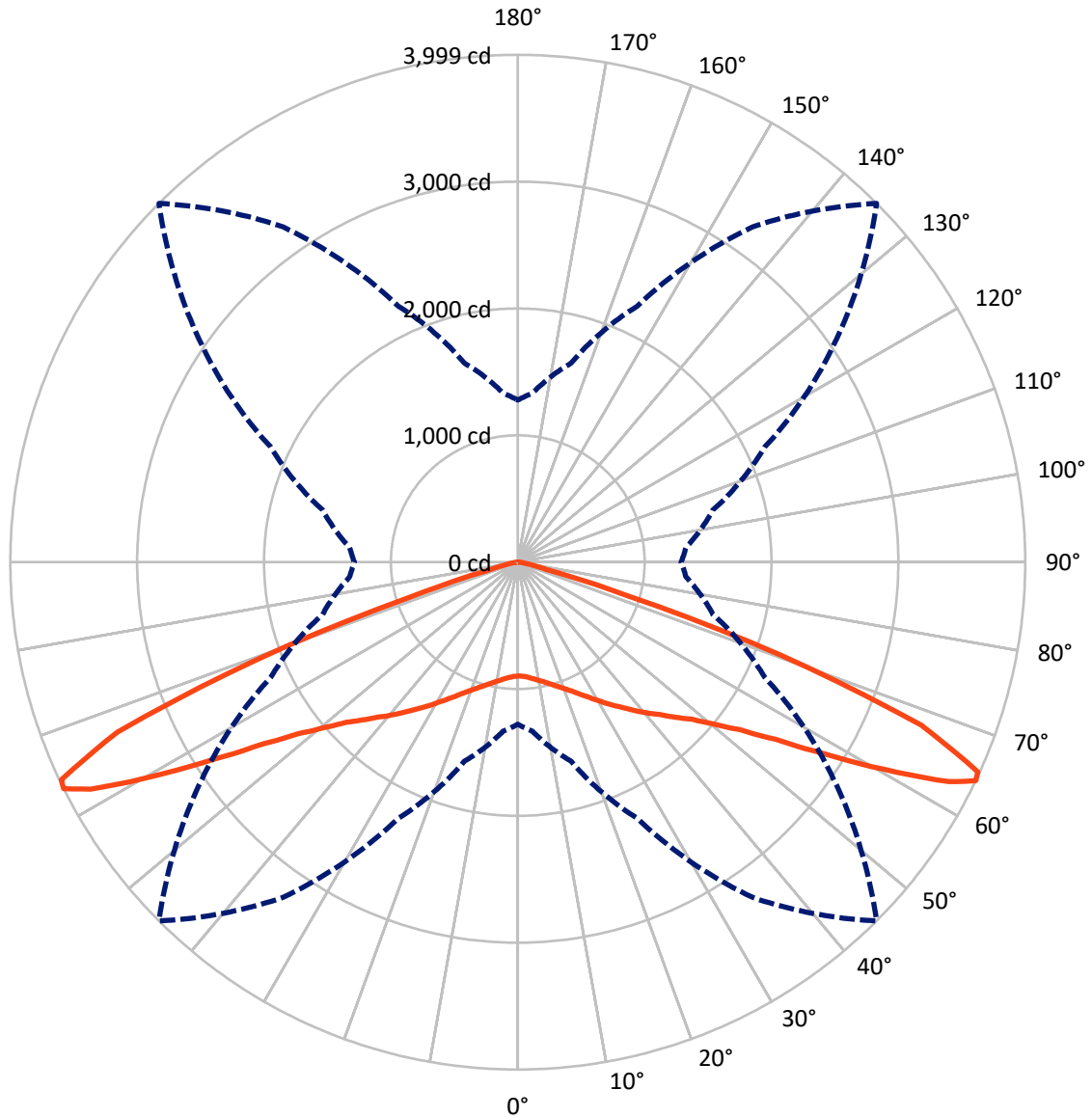
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3712.0	0.0	3712.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3712.0	0.0	3712.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7424.0	0.0	7424.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	1.2
10°-20°	284.4	3.8
20°-30°	537.4	7.2
30°-40°	889.9	12.0
40°-50°	1389.3	18.7
50°-60°	2147.8	28.9
60°-70°	1852.0	24.9
70°-80°	209.9	2.8
80°-90°	25.1	0.3
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°	7424.0	100.0
0°-180°	7424.0	100.0

**Coefficient of Utilization**



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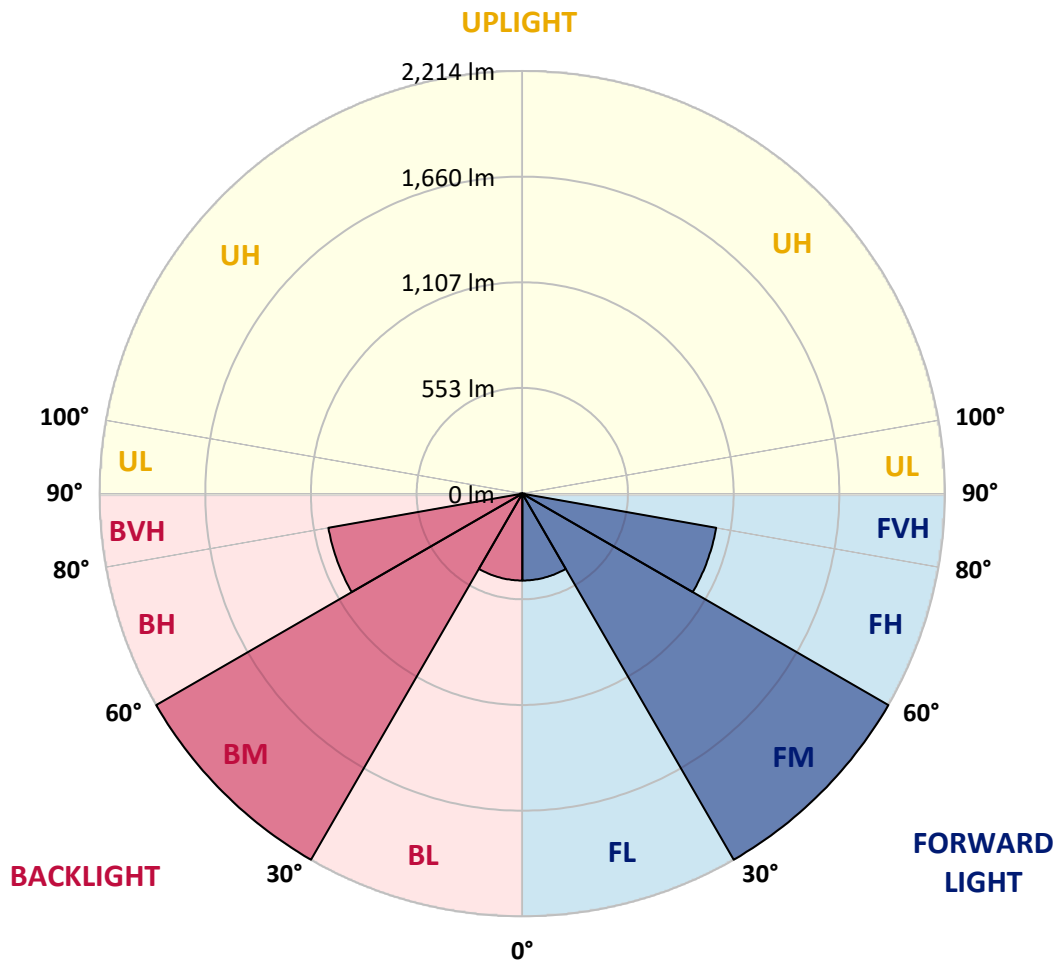
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.9	6.1			
FM (30°-60°)	2213.5	29.8			
FH (60°-80°)	1031.0	13.9			G1/1800
FVH (80°-90°)	12.6	0.2			G1/100
BL (0°-30°)	454.9	6.1	B1/500		
BM (30°-60°)	2213.5	29.8	B2/2500		
BH (60°-80°)	1031.0	13.9	B3/2500		G1/1800
BVH (80°-90°)	12.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	897.3	897.3	897.3	897.3	897.3	897.3	897.3	897.3	897.3	897.3	897.3
2.5°	900.9	902.8	901.2	900.9	900.5	900.5	900.5	900.9	902.4	903.6	902.8
5°	912.3	913.8	913.0	912.7	912.3	912.7	911.9	911.5	912.7	912.7	912.3
7.5°	926.4	928.4	927.6	928.4	928.8	929.2	927.2	925.6	925.2	926.4	925.6
10°	945.7	947.3	947.6	948.0	948.8	948.4	946.1	943.3	942.9	942.5	942.1
12.5°	967.3	968.5	968.9	970.5	971.6	972.0	969.3	966.9	963.0	963.8	962.2
15°	991.7	994.0	993.7	996.0	999.2	999.9	997.2	993.3	989.7	987.8	986.6
17.5°	1021.6	1023.1	1022.4	1024.7	1028.6	1030.6	1028.3	1023.1	1019.6	1015.3	1012.9
20°	1057.0	1059.7	1060.5	1060.5	1064.0	1066.0	1062.5	1060.9	1055.4	1052.2	1050.3
22.5°	1097.1	1098.2	1100.6	1103.0	1106.5	1105.7	1104.5	1102.2	1097.1	1094.3	1091.2
25°	1142.3	1143.5	1149.4	1154.5	1155.7	1154.9	1153.3	1152.1	1147.4	1141.1	1138.7
27.5°	1195.0	1197.3	1205.2	1209.9	1209.9	1210.3	1207.2	1211.1	1200.9	1193.4	1192.6
30°	1261.0	1262.6	1269.3	1274.0	1271.7	1269.7	1268.9	1272.8	1261.8	1248.5	1245.3
32.5°	1326.3	1331.8	1337.7	1347.9	1339.7	1336.1	1335.4	1338.1	1325.5	1310.6	1306.3
35°	1396.3	1400.2	1411.2	1419.9	1412.4	1404.2	1407.7	1416.4	1401.4	1381.4	1380.6
37.5°	1473.8	1477.3	1491.5	1500.5	1495.0	1480.8	1486.7	1497.0	1482.0	1457.3	1452.1
40°	1554.4	1561.8	1579.5	1589.0	1579.9	1561.1	1572.1	1583.1	1569.7	1541.0	1529.6
42.5°	1644.8	1656.6	1682.2	1686.9	1669.6	1644.0	1663.3	1681.0	1671.6	1638.5	1634.2
45°	1750.6	1757.7	1789.1	1799.3	1775.4	1743.5	1767.5	1799.7	1792.7	1754.5	1746.3
47.5°	1868.9	1875.6	1908.3	1923.6	1893.3	1850.5	1893.7	1935.8	1931.5	1890.6	1886.6
50°	2008.9	2010.5	2055.7	2073.0	2042.7	2005.8	2044.3	2096.6	2079.3	2027.0	2026.2
52.5°	2162.3	2164.3	2221.3	2254.7	2237.8	2196.1	2241.7	2273.6	2229.5	2161.1	2156.0
55°	2295.2	2305.0	2382.9	2471.7	2494.9	2464.7	2478.4	2463.5	2355.0	2259.0	2244.1
57.5°	2349.5	2368.7	2487.1	2653.0	2804.0	2848.8	2742.7	2600.3	2404.9	2269.2	2254.7
60°	2216.9	2237.8	2421.4	2736.4	3121.7	3316.4	3017.9	2623.5	2291.3	2100.6	2077.7
62.5°	1775.4	1781.3	2051.4	2540.2	3306.9	3811.0	3133.9	2425.7	1960.6	1701.4	1692.4
64°	1277.6	1338.1	1624.4	2227.2	3225.9	3999.4	3067.1	2148.5	1592.5	1330.2	1287.8
65°	955.5	972.0	1309.4	1902.0	3083.2	3985.2	2937.3	1883.5	1318.8	1018.0	970.8
67.5°	361.0	362.9	483.3	948.0	2194.9	3428.8	2241.7	1024.7	555.6	401.9	387.3
70°	149.8	152.6	177.3	318.9	943.3	2201.6	1080.9	369.6	203.3	164.8	162.4
72.5°	109.7	111.3	118.8	141.6	290.2	904.0	355.5	156.9	119.1	106.6	105.4
75°	86.1	86.9	92.4	104.2	135.3	250.5	147.8	107.7	90.8	81.8	81.0
77.5°	65.7	67.6	71.6	79.4	90.8	118.8	97.9	80.6	70.0	62.5	61.3
80°	45.2	47.6	55.1	58.2	60.9	77.1	66.8	60.9	54.7	45.6	42.9
82.5°	27.9	29.5	37.0	39.7	38.5	43.3	42.9	43.6	38.9	28.3	26.3
85°	14.5	15.3	20.1	20.8	19.3	17.7	22.0	25.6	24.0	16.1	15.7
87.5°	3.1	3.5	4.3	3.9	4.3	4.3	5.5	8.3	8.7	5.5	5.1
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)