

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: P450801

Luminaire Tested: **GALN-SA1C-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450801  
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-SA1C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5473 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

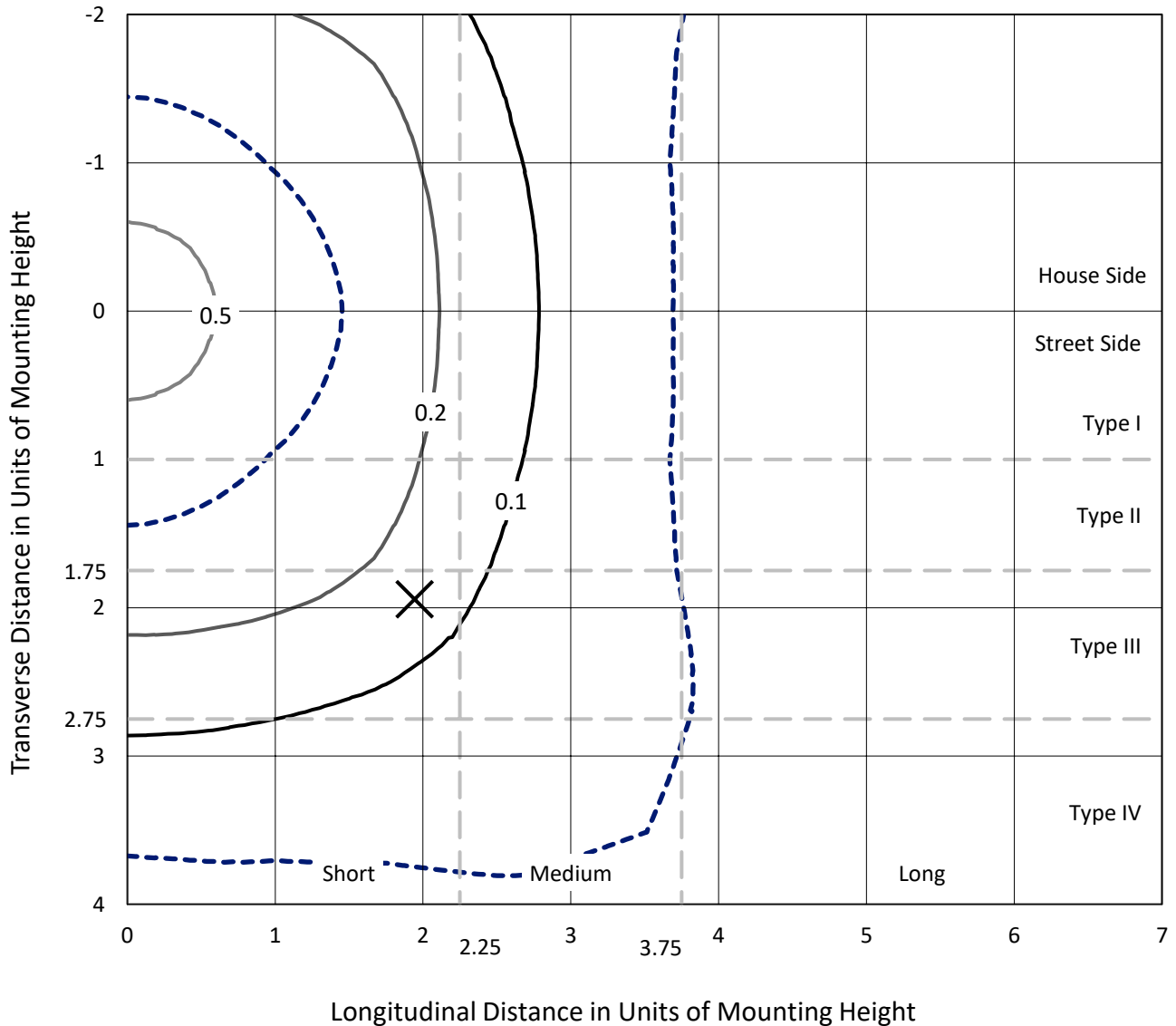
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

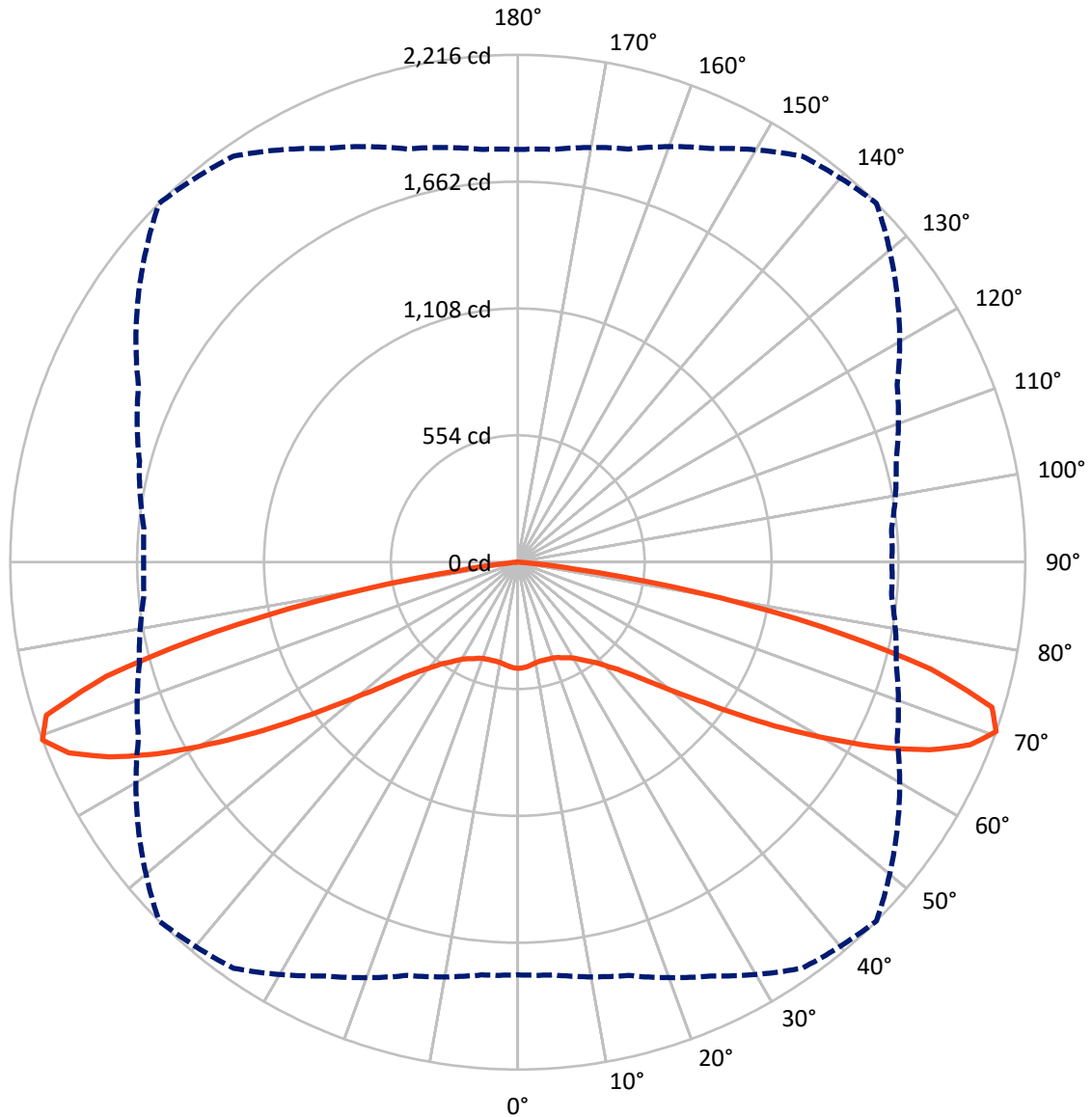
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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
<b>House Side</b>	Lumens	2736.5	0.0	2736.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2736.5	0.0	2736.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5473.0	0.0	5473.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.3	0.8
10°-20°	126.9	2.3
20°-30°	216.1	3.9
30°-40°	335.0	6.1
40°-50°	563.9	10.3
50°-60°	1025.9	18.7
60°-70°	1736.9	31.7
70°-80°	1344.4	24.6
80°-90°	80.6	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°	5473.0	100.0
0°-180°	5473.0	100.0



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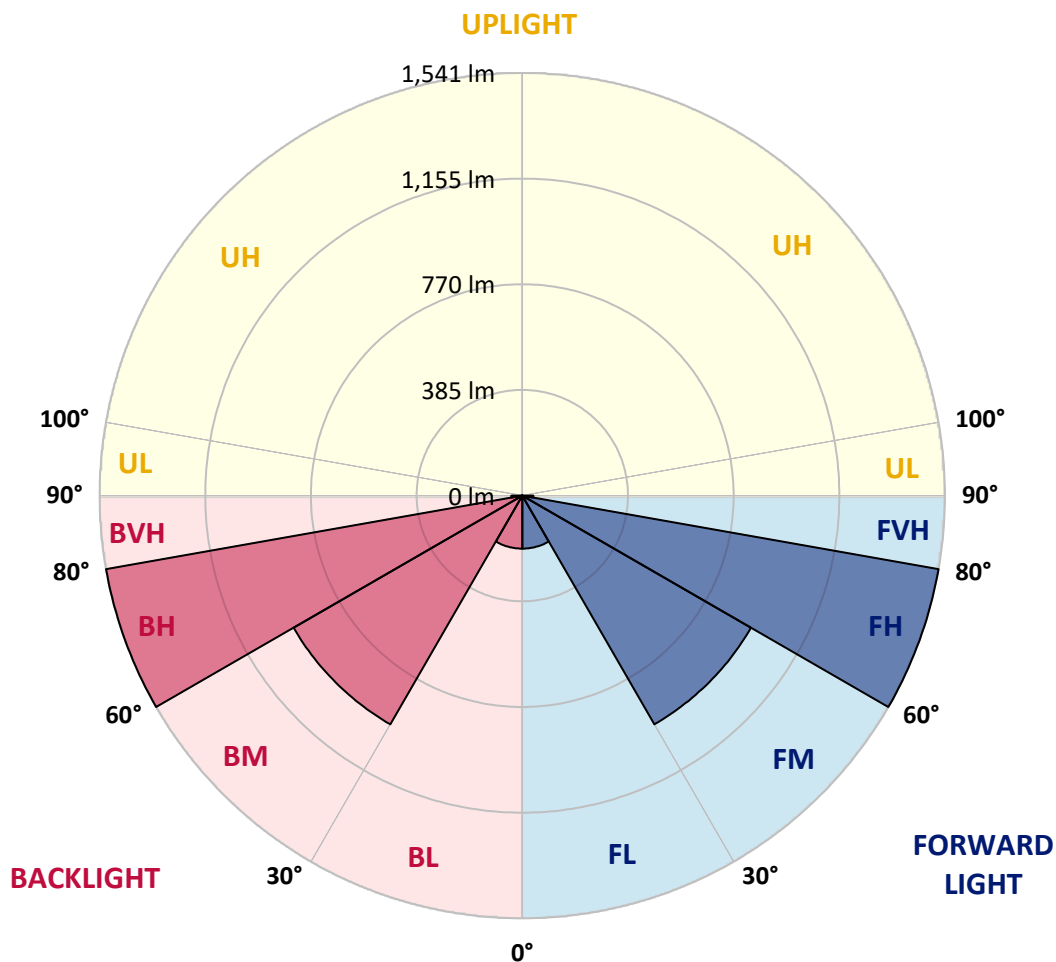
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.2	3.5			
FM (30°-60°)	962.4	17.6			
FH (60°-80°)	1540.6	28.1			G1/1800
FVH (80°-90°)	40.3	0.7			G1/100
BL (0°-30°)	193.2	3.5	B1/500		
BM (30°-60°)	962.4	17.6	B1/1000		
BH (60°-80°)	1540.6	28.1	B3/2500		G1/1800
BVH (80°-90°)	40.3	0.7			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°	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4
2.5°	462.2	462.5	462.5	461.9	461.6	461.6	461.3	461.3	462.2	462.5	462.8
5°	458.2	458.2	458.2	457.9	457.3	457.3	456.7	456.7	457.0	457.9	457.3
7.5°	452.7	453.2	453.2	452.1	451.2	451.2	450.9	451.2	451.5	452.4	452.1
10°	450.9	451.2	449.8	447.7	446.3	445.4	445.7	446.3	447.7	448.3	448.6
12.5°	452.1	452.1	449.5	446.6	444.0	442.8	442.5	444.6	447.2	448.9	449.5
15°	453.5	453.0	449.8	446.0	443.4	443.1	442.8	444.3	448.0	451.5	451.8
17.5°	454.4	454.1	450.1	445.4	444.0	444.0	443.7	444.9	448.9	453.2	453.5
20°	457.3	456.4	451.8	446.9	445.7	446.3	445.4	446.9	451.2	456.4	457.6
22.5°	463.1	462.2	457.6	452.7	452.1	452.1	451.8	453.2	457.9	463.4	464.2
25°	470.0	469.1	464.8	461.3	461.9	463.1	462.5	462.8	466.5	471.2	472.6
27.5°	479.3	477.8	474.1	471.2	472.9	472.9	472.9	472.6	474.9	479.3	480.7
30°	490.5	489.9	485.9	485.6	487.1	485.6	485.6	485.9	486.2	490.2	491.7
32.5°	505.3	504.1	502.1	501.5	505.6	506.7	502.7	498.9	500.9	505.0	505.8
35°	529.6	527.8	524.9	521.7	524.9	530.4	521.7	518.9	524.1	529.6	530.1
37.5°	562.5	561.6	557.0	551.2	550.9	556.7	547.8	547.5	557.3	563.9	564.8
40°	603.8	604.7	598.9	593.4	590.5	595.2	588.2	590.8	600.4	607.9	607.3
42.5°	661.9	658.8	649.8	644.6	641.4	639.7	637.9	642.0	652.7	660.8	667.1
45°	729.9	728.7	717.4	711.1	704.1	701.5	701.0	708.2	721.2	731.0	731.9
47.5°	806.8	804.2	796.9	790.3	787.7	784.5	781.6	787.1	800.1	807.0	809.1
50°	886.0	886.5	886.5	885.4	888.0	888.6	880.8	882.8	890.0	889.4	888.8
52.5°	976.4	979.6	994.6	996.1	1008.5	1016.9	1002.7	994.4	991.8	976.1	977.3
55°	1082.8	1085.7	1108.2	1130.8	1164.3	1178.5	1148.7	1122.7	1104.2	1080.5	1081.6
57.5°	1215.5	1216.9	1238.3	1281.7	1334.9	1368.1	1315.8	1264.3	1226.8	1204.2	1195.2
60°	1358.3	1359.7	1390.9	1443.8	1526.5	1567.0	1502.2	1418.1	1370.7	1336.3	1338.6
62.5°	1529.7	1535.5	1563.5	1636.3	1736.6	1782.0	1696.2	1583.7	1519.6	1476.8	1478.5
65°	1713.2	1723.1	1753.7	1833.8	1926.3	1975.1	1869.9	1740.1	1660.3	1608.0	1613.5
67.5°	1832.3	1841.0	1885.2	1973.7	2089.0	2129.5	1993.6	1842.4	1742.7	1680.3	1668.7
70°	1802.0	1809.2	1868.2	1993.6	2164.4	2215.6	2023.1	1827.4	1710.1	1638.1	1633.5
72.5°	1590.7	1575.6	1661.8	1841.9	2078.3	2164.2	1930.3	1669.0	1521.3	1447.3	1438.6
75°	1054.2	1086.8	1214.0	1426.2	1758.3	1864.7	1647.6	1340.1	1154.2	1092.6	1083.1
77.5°	352.4	377.5	490.5	808.5	1198.7	1358.6	1200.4	876.4	620.0	499.5	501.8
80°	93.4	92.2	119.4	222.3	518.0	786.8	603.0	296.9	162.4	117.6	111.6
82.5°	33.5	37.6	48.3	61.6	137.3	244.5	172.6	83.2	61.0	45.1	43.6
85°	14.7	14.5	20.8	24.6	34.4	45.7	40.5	35.3	30.9	20.5	19.1
87.5°	3.2	3.2	4.9	3.8	6.1	6.1	7.5	9.0	9.2	6.1	4.9
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)