

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: P451584

Luminaire Tested: **GALN-SA2C-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451584  
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-SA2C-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12375 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

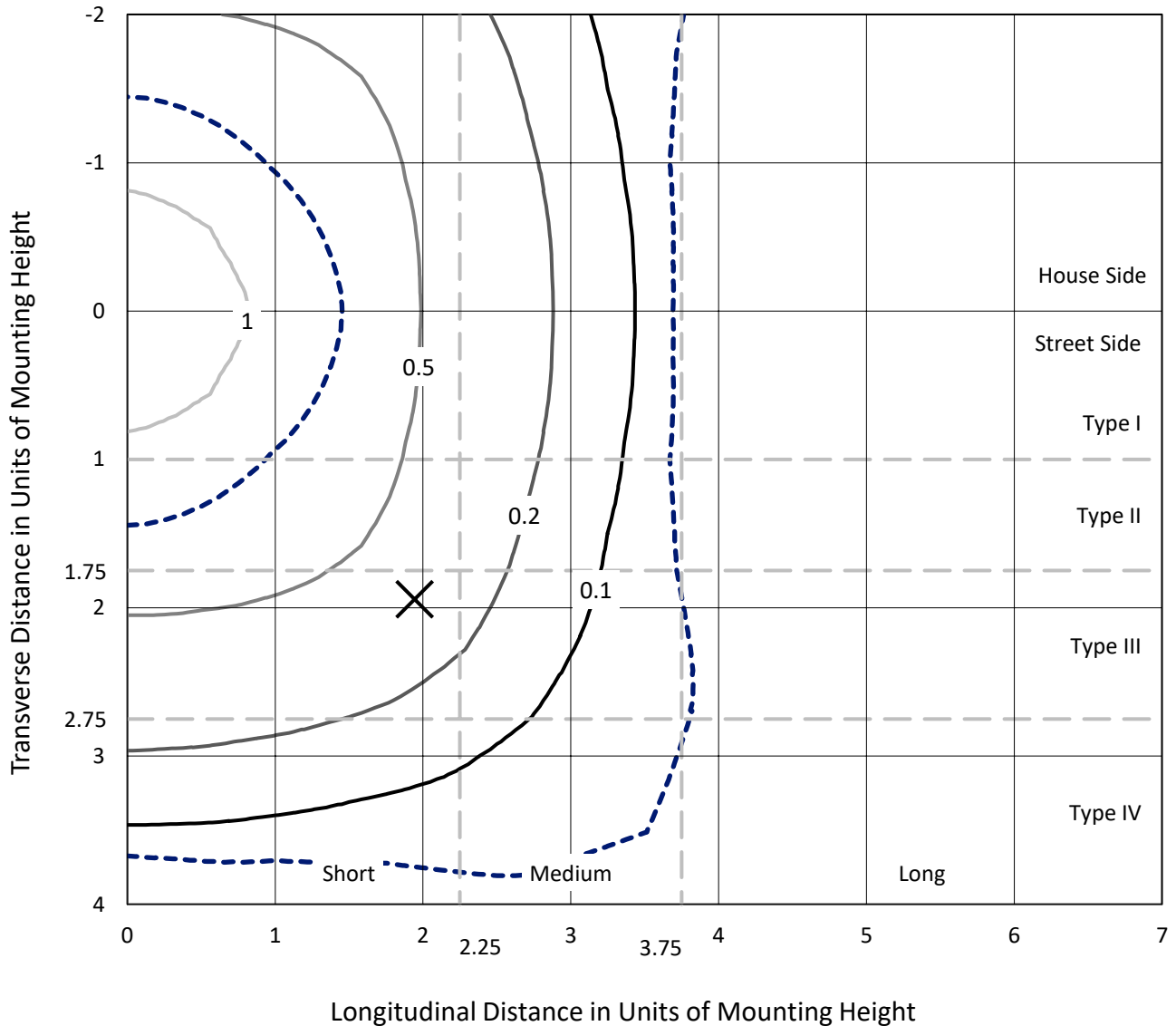
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

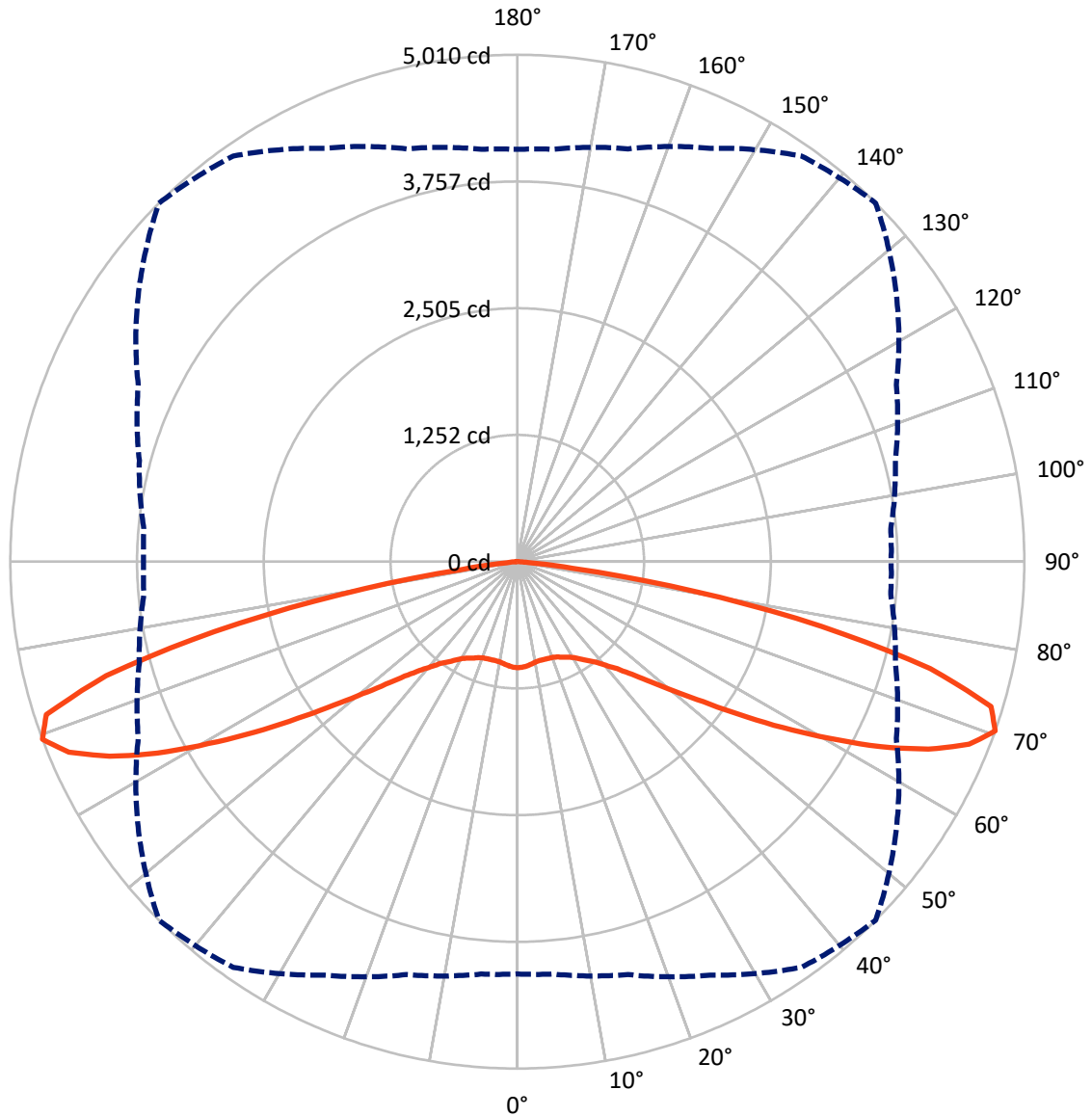
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	6187.5	0.0	6187.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6187.5	0.0	6187.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12375.0	0.0	12375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	0.8
10°-20°	286.8	2.3
20°-30°	488.7	3.9
30°-40°	757.5	6.1
40°-50°	1275.0	10.3
50°-60°	2319.7	18.7
60°-70°	3927.3	31.7
70°-80°	3039.9	24.6
80°-90°	182.2	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°	12375.0	100.0
0°-180°	12375.0	100.0

**Coefficient of Utilization**



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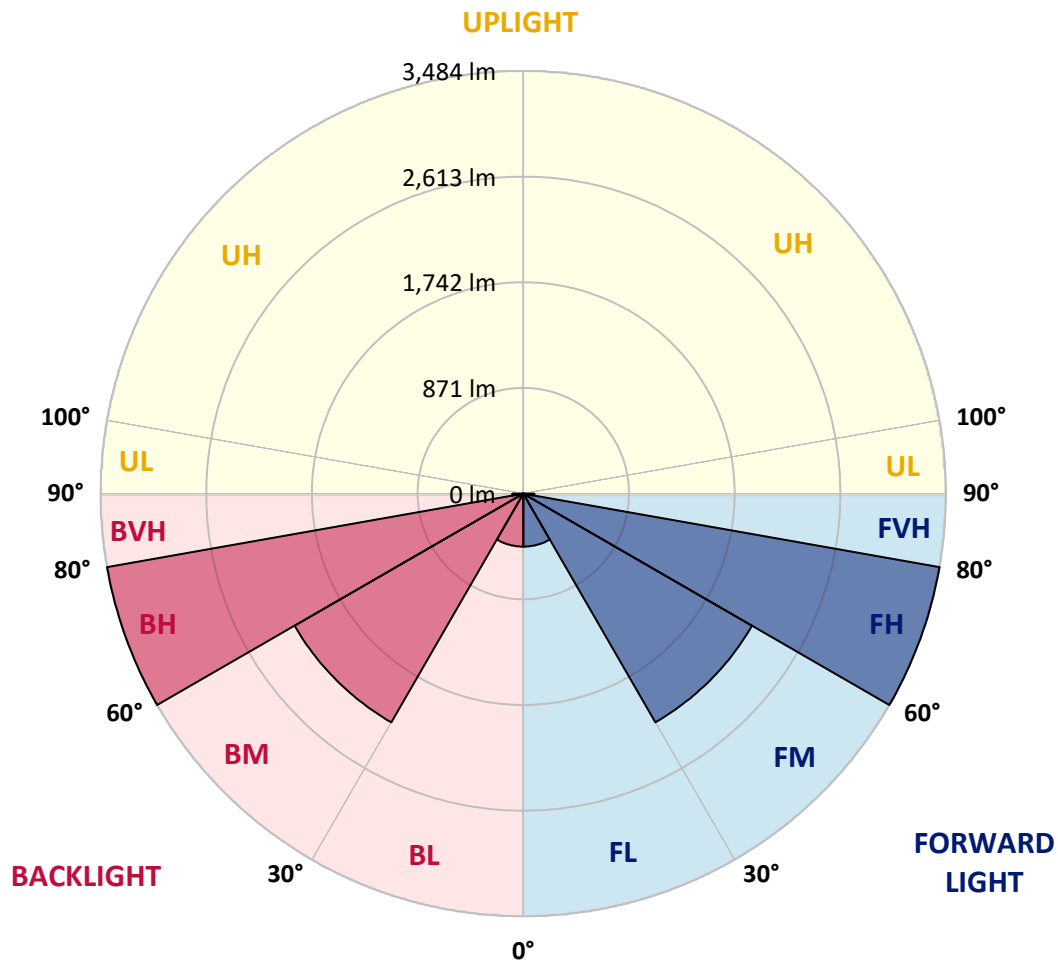
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.8	3.5			
FM (30°-60°)	2176.1	17.6			
FH (60°-80°)	3483.6	28.2			G2/5000
FVH (80°-90°)	91.1	0.7			G1/100
BL (0°-30°)	436.8	3.5	B1/500		
BM (30°-60°)	2176.1	17.6	B2/2500		
BH (60°-80°)	3483.6	28.2	B4/5000		G2/5000
BVH (80°-90°)	91.1	0.7			G1/100
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°	1047.7	1047.7	1047.7	1047.7	1047.7	1047.7	1047.7	1047.7	1047.7	1047.7	1047.7
2.5°	1045.1	1045.7	1045.7	1044.4	1043.8	1043.8	1043.1	1043.1	1045.1	1045.7	1046.4
5°	1035.9	1035.9	1035.9	1035.3	1034.0	1034.0	1032.7	1032.7	1033.3	1035.3	1034.0
7.5°	1023.5	1024.8	1024.8	1022.2	1020.2	1020.2	1019.6	1020.2	1020.9	1022.9	1022.2
10°	1019.6	1020.2	1017.0	1012.4	1009.1	1007.2	1007.8	1009.1	1012.4	1013.7	1014.4
12.5°	1022.2	1022.2	1016.3	1009.8	1003.9	1001.3	1000.6	1005.2	1011.1	1015.0	1016.3
15°	1025.5	1024.2	1017.0	1008.5	1002.6	1001.9	1001.3	1004.6	1013.1	1020.9	1021.6
17.5°	1027.4	1026.8	1017.6	1007.2	1003.9	1003.9	1003.3	1005.9	1015.0	1024.8	1025.5
20°	1034.0	1032.0	1021.6	1010.4	1007.8	1009.1	1007.2	1010.4	1020.2	1032.0	1034.6
22.5°	1047.0	1045.1	1034.6	1023.5	1022.2	1022.2	1021.6	1024.8	1035.3	1047.7	1049.7
25°	1062.7	1060.8	1051.0	1043.1	1044.4	1047.0	1045.7	1046.4	1054.9	1065.3	1068.6
27.5°	1083.6	1080.4	1071.9	1065.3	1069.3	1069.3	1069.3	1068.6	1073.8	1083.6	1086.9
30°	1109.1	1107.8	1098.7	1098.0	1101.3	1098.0	1098.0	1098.7	1099.3	1108.5	1111.7
32.5°	1142.5	1139.9	1135.3	1134.0	1143.1	1145.7	1136.6	1128.1	1132.7	1141.8	1143.8
35°	1197.4	1193.4	1186.9	1179.7	1186.9	1199.3	1179.7	1173.2	1184.9	1197.4	1198.7
37.5°	1271.9	1269.9	1259.5	1246.4	1245.7	1258.8	1238.5	1237.9	1260.1	1275.1	1277.1
40°	1365.3	1367.3	1354.2	1341.8	1335.3	1345.7	1330.0	1335.9	1357.5	1374.5	1373.2
42.5°	1496.7	1489.5	1469.3	1457.5	1450.3	1446.4	1442.5	1451.6	1475.8	1494.1	1508.5
45°	1650.3	1647.7	1622.2	1607.8	1592.1	1586.2	1584.9	1601.3	1630.7	1652.9	1654.9
47.5°	1824.2	1818.3	1801.9	1786.9	1781.0	1773.8	1767.3	1779.7	1809.1	1824.8	1829.4
50°	2003.2	2004.5	2004.5	2001.9	2007.8	2009.1	1991.5	1996.0	2012.4	2011.1	2009.8
52.5°	2207.8	2215.0	2249.0	2252.3	2280.4	2299.3	2267.3	2248.3	2242.4	2207.2	2209.8
55°	2448.3	2454.9	2505.8	2556.8	2632.6	2664.7	2597.3	2538.5	2496.7	2443.1	2445.7
57.5°	2748.3	2751.6	2800.0	2898.0	3018.3	3093.4	2975.1	2858.8	2773.8	2722.8	2702.6
60°	3071.2	3074.5	3145.0	3264.7	3451.6	3543.1	3396.7	3206.5	3099.3	3021.5	3026.7
62.5°	3458.8	3471.8	3535.2	3699.9	3926.7	4029.3	3835.2	3581.0	3435.9	3339.2	3343.1
65°	3873.8	3896.0	3965.3	4146.3	4355.5	4465.9	4228.0	3934.6	3754.2	3635.9	3648.3
67.5°	4143.1	4162.7	4262.7	4462.7	4723.5	4815.0	4507.8	4165.9	3940.5	3799.3	3773.1
70°	4074.4	4090.8	4224.1	4507.8	4894.0	5009.7	4574.4	4132.0	3866.6	3703.9	3693.4
72.5°	3596.7	3562.7	3757.5	4164.6	4699.3	4893.4	4364.6	3773.8	3439.8	3272.5	3252.9
75°	2383.6	2457.5	2745.1	3224.8	3975.8	4216.3	3725.4	3030.0	2609.8	2470.5	2449.0
77.5°	796.7	853.6	1109.1	1828.1	2710.4	3071.8	2714.3	1981.7	1401.9	1129.4	1134.6
80°	211.1	208.5	269.9	502.6	1171.2	1779.1	1363.4	671.2	367.3	266.0	252.3
82.5°	75.8	85.0	109.1	139.2	310.5	552.9	390.2	188.2	137.9	102.0	98.7
85°	33.3	32.7	47.1	55.6	77.8	103.3	91.5	79.7	69.9	46.4	43.1
87.5°	7.2	7.2	11.1	8.5	13.7	13.7	17.0	20.3	20.9	13.7	11.1
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)