

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: P531188

Luminaire Tested: **GALN-SA6C-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-727-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31404 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

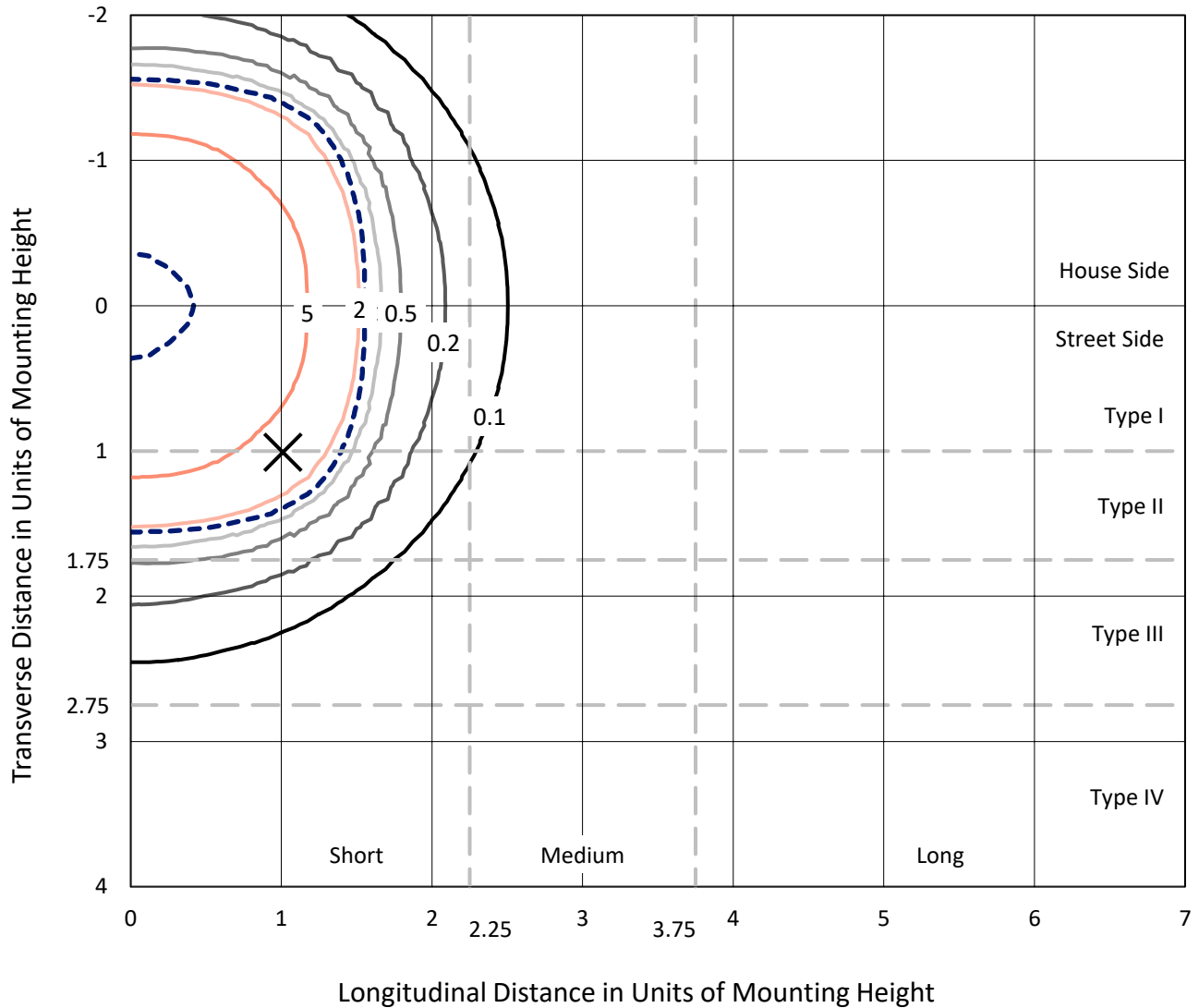
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

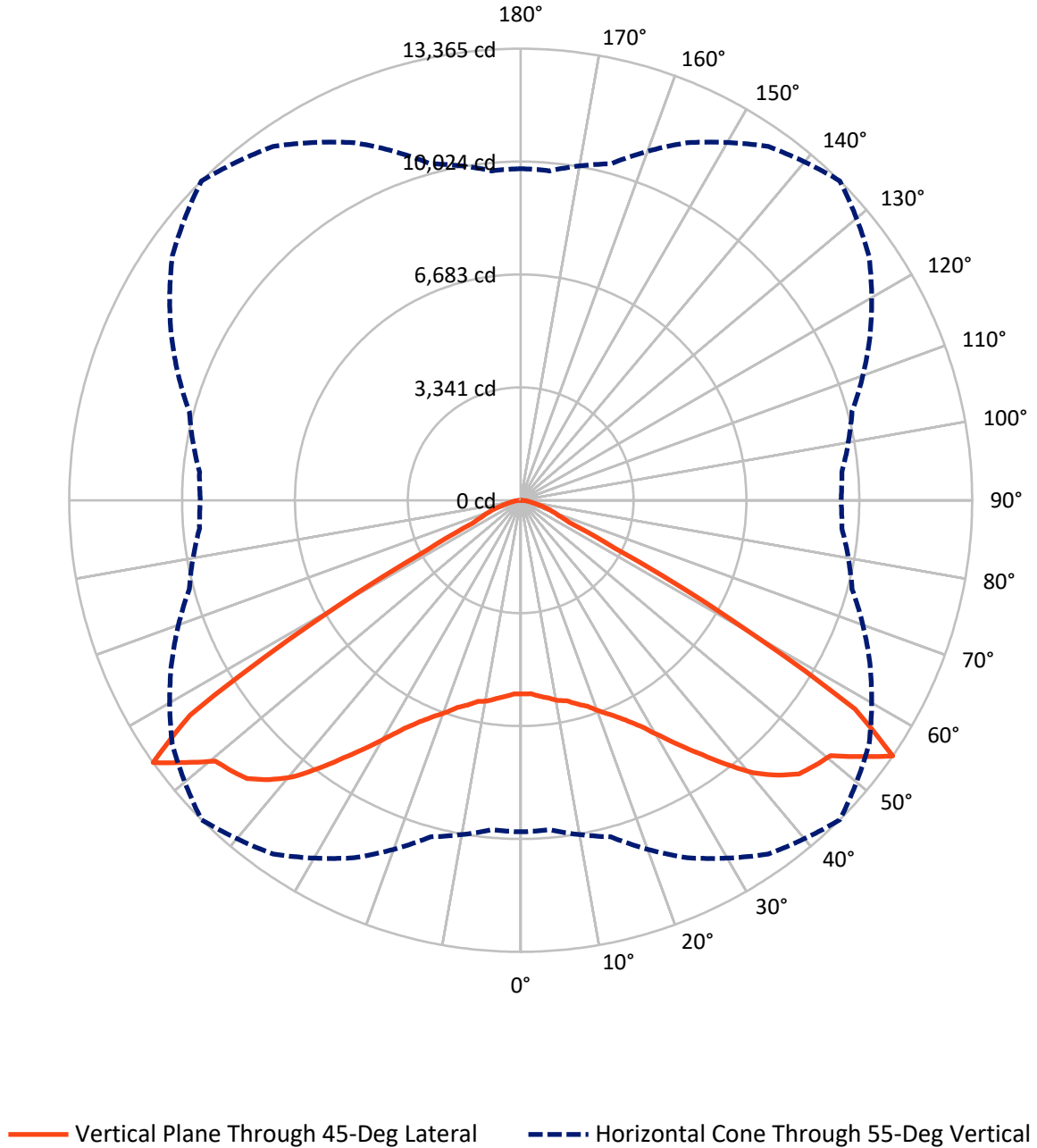
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15702.0	0.0	15702.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15702.0	0.0	15702.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31404.0	0.0	31404.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.1	1.8
10°-20°	1774.8	5.7
20°-30°	3309.5	10.5
30°-40°	5541.2	17.6
40°-50°	8622.5	27.5
50°-60°	8952.9	28.5
60°-70°	1898.6	6.0
70°-80°	625.3	2.0
80°-90°	119.1	0.4
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°	31404.0	100.0
0°-180°	31404.0	100.0

**Coefficient of Utilization**

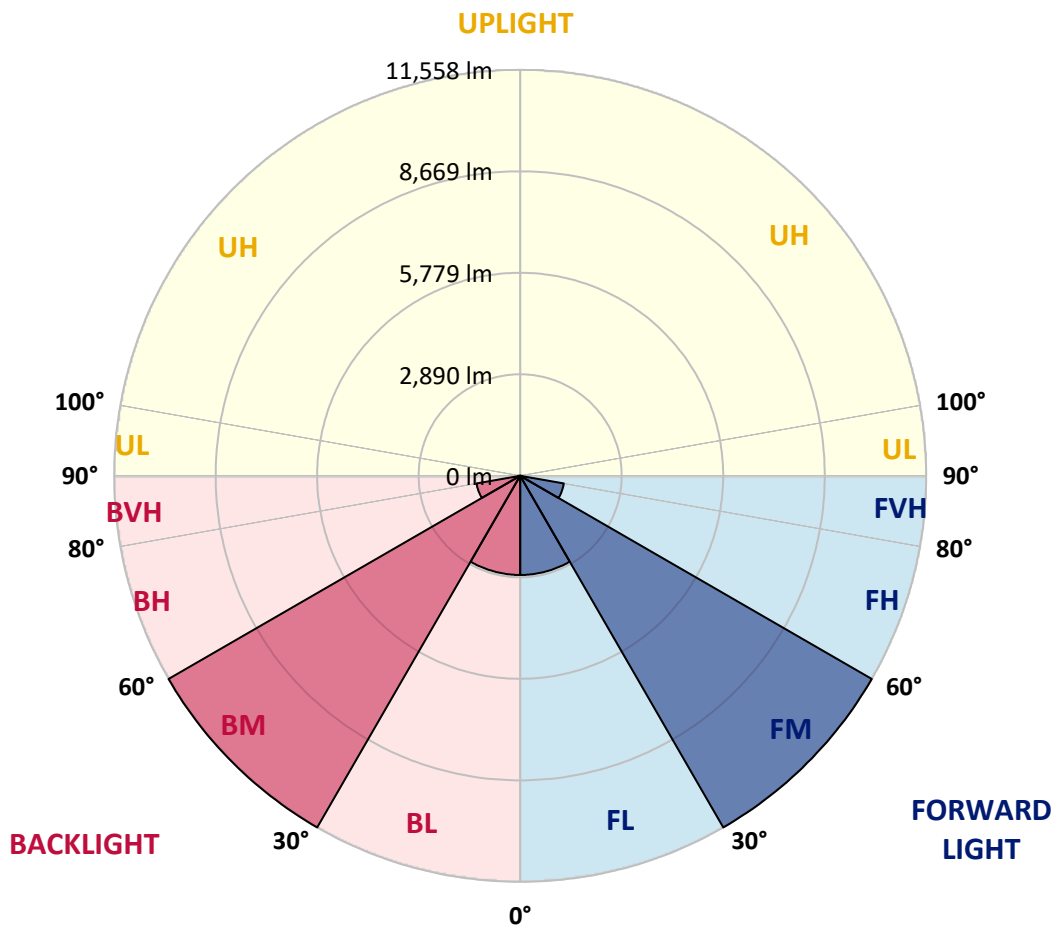


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.2	9.0			
FM (30°-60°)	11558.3	36.8			
FH (60°-80°)	1261.9	4.0			G1/1800
FVH (80°-90°)	59.5	0.2			G1/100
BL (0°-30°)	2822.2	9.0	B4/5000		
BM (30°-60°)	11558.3	36.8	B5		
BH (60°-80°)	1261.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	59.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5733.9	5733.9	5733.9	5733.9	5733.9	5733.9	5733.9	5733.9	5733.9	5733.9	5733.9
2.5°	5802.2	5775.6	5730.1	5764.3	5790.8	5733.9	5756.7	5768.1	5760.5	5730.1	5741.5
5°	5885.7	5870.5	5832.6	5859.1	5825.0	5825.0	5802.2	5771.8	5817.4	5809.8	5828.8
7.5°	5885.7	5866.7	5942.6	5893.3	5908.5	5908.5	5870.5	5840.2	5862.9	5828.8	5809.8
10°	6003.3	6029.9	5995.7	6007.1	5999.5	6026.1	5969.2	5950.2	5931.2	5919.8	5897.1
12.5°	6143.7	6124.8	6136.1	6128.6	6155.1	6086.8	6052.7	6010.9	6045.1	5995.7	6029.9
15°	6257.6	6246.2	6257.6	6287.9	6261.4	6257.6	6196.9	6155.1	6102.0	6113.4	6060.3
17.5°	6413.2	6401.8	6405.6	6432.1	6428.3	6409.4	6363.8	6284.1	6265.2	6234.8	6200.7
20°	6644.6	6625.7	6618.1	6629.5	6648.4	6663.6	6572.5	6542.2	6477.7	6428.3	6371.4
22.5°	6842.0	6834.4	6864.7	6815.4	6857.2	6902.7	6815.4	6800.2	6640.9	6614.3	6553.6
25°	7115.2	7103.8	7084.8	7156.9	7206.3	7202.5	7119.0	7035.5	6914.1	6883.7	6883.7
27.5°	7403.6	7339.1	7437.8	7456.7	7544.0	7570.6	7498.5	7377.0	7263.2	7198.7	7213.9
30°	7764.1	7703.4	7726.2	7862.8	7976.6	8075.3	7893.1	7714.8	7555.4	7441.5	7422.6
32.5°	8124.6	8063.9	8132.2	8265.0	8492.7	8640.7	8462.3	8151.2	7965.2	7798.3	7832.4
35°	8416.8	8462.3	8572.4	8773.5	9008.8	9247.9	8963.3	8724.2	8458.5	8272.6	8299.2
37.5°	8887.4	9027.8	9115.0	9346.5	9680.5	9927.1	9631.1	9320.0	9035.4	8792.5	8709.0
40°	9502.1	9597.0	9695.6	9968.9	10363.5	10610.2	10329.4	9923.3	9642.5	9392.1	9380.7
42.5°	10177.6	10268.7	10371.1	10705.1	10940.3	11126.3	10868.2	10651.9	10340.8	10143.4	10132.0
45°	10963.1	10898.6	11012.4	11232.5	11429.9	11551.3	11384.3	11278.1	11054.2	10872.0	10853.1
47.5°	11486.8	11429.9	11634.8	11832.1	11862.5	11729.6	11763.8	11862.5	11627.2	11327.4	11422.3
50°	11790.4	11790.4	11927.0	12109.1	12052.2	11881.4	12150.9	12158.5	11923.2	11657.5	11657.5
52.5°	11262.9	11380.5	11767.6	12363.4	12553.1	12602.4	12541.7	12283.7	11668.9	11126.3	11099.7
55°	9813.3	9786.7	10310.4	11676.5	12780.8	13365.2	12591.1	11403.3	10154.8	9543.9	9483.1
57.5°	6382.8	6413.2	7194.9	8587.6	10579.8	11668.9	10363.5	8693.8	7194.9	6352.4	6432.1
60°	2872.6	2975.1	3449.4	4489.2	6200.7	7088.6	6215.8	4716.9	3620.2	3142.1	3183.8
62.5°	1650.7	1669.7	1688.7	2003.6	2641.2	3123.1	2743.6	2117.5	1867.0	1783.5	1783.5
65°	1392.7	1381.3	1385.1	1411.7	1480.0	1578.6	1536.9	1480.0	1487.6	1480.0	1468.6
67.5°	1184.0	1199.1	1187.8	1206.7	1210.5	1225.7	1252.3	1275.0	1278.8	1286.4	1278.8
70°	971.5	975.3	982.8	998.0	1001.8	1013.2	1051.2	1070.1	1081.5	1081.5	1096.7
72.5°	743.8	740.0	747.6	762.7	781.7	785.5	819.7	846.2	861.4	842.4	846.2
75°	489.5	493.3	504.7	516.1	542.7	569.2	580.6	607.2	611.0	618.5	599.6
77.5°	292.2	299.8	311.2	333.9	356.7	379.5	406.0	425.0	432.6	425.0	402.2
80°	189.7	189.7	204.9	223.9	250.5	269.4	284.6	299.8	311.2	299.8	292.2
82.5°	117.6	117.6	136.6	159.4	178.4	189.7	212.5	231.5	242.9	235.3	223.9
85°	60.7	64.5	79.7	98.7	113.8	121.4	117.6	106.3	94.9	91.1	83.5
87.5°	19.0	19.0	22.8	22.8	19.0	19.0	22.8	19.0	22.8	22.8	22.8
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)