

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: P450656

Luminaire Tested: **GALN-SA1C-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450656  
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-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 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: 6227 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

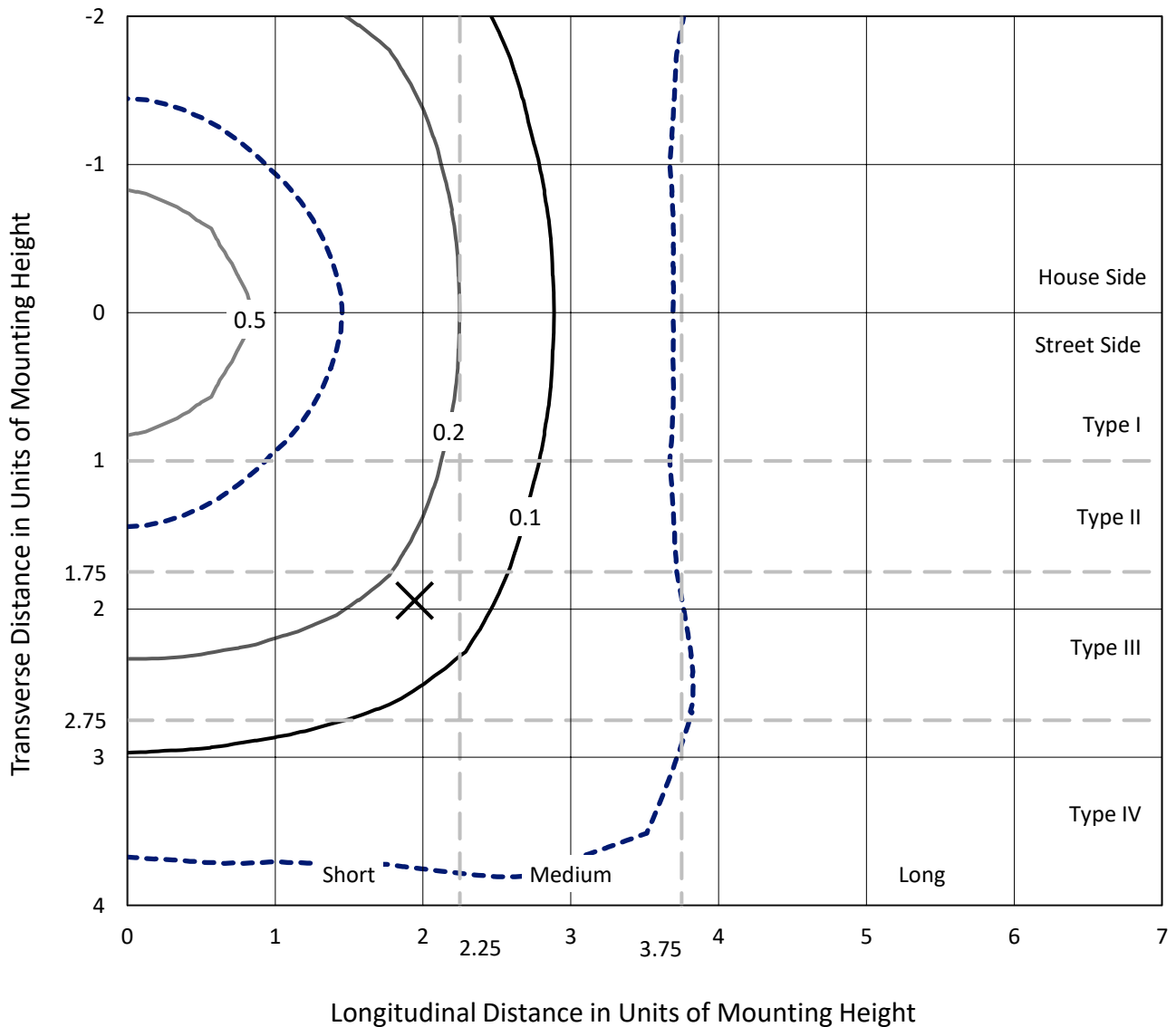
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

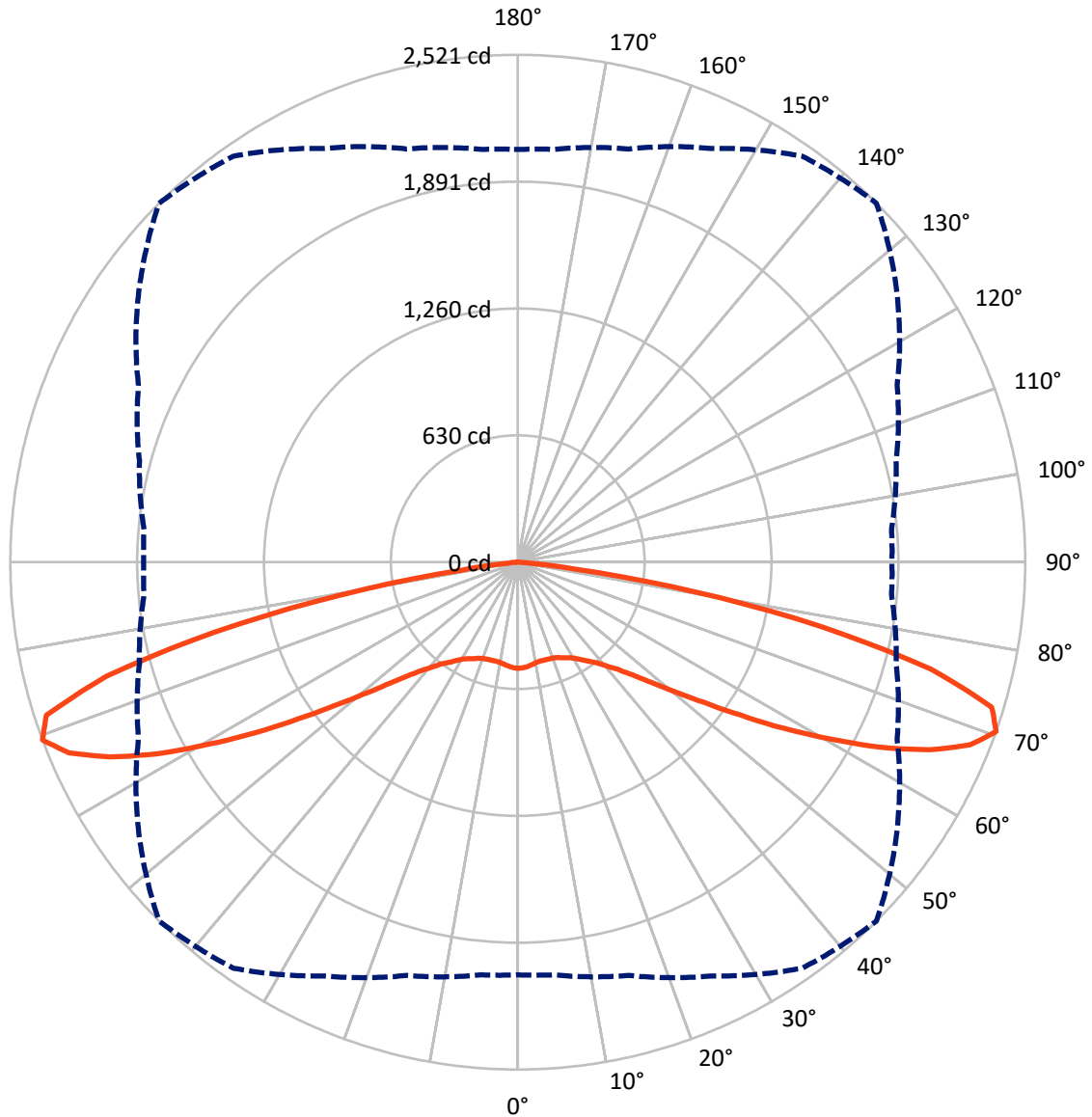
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	3113.5	0.0	3113.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3113.5	0.0	3113.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6227.0	0.0	6227.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	0.8
10°-20°	144.3	2.3
20°-30°	245.9	3.9
30°-40°	381.2	6.1
40°-50°	641.6	10.3
50°-60°	1167.3	18.7
60°-70°	1976.2	31.7
70°-80°	1529.6	24.6
80°-90°	91.7	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°	6227.0	100.0
0°-180°	6227.0	100.0



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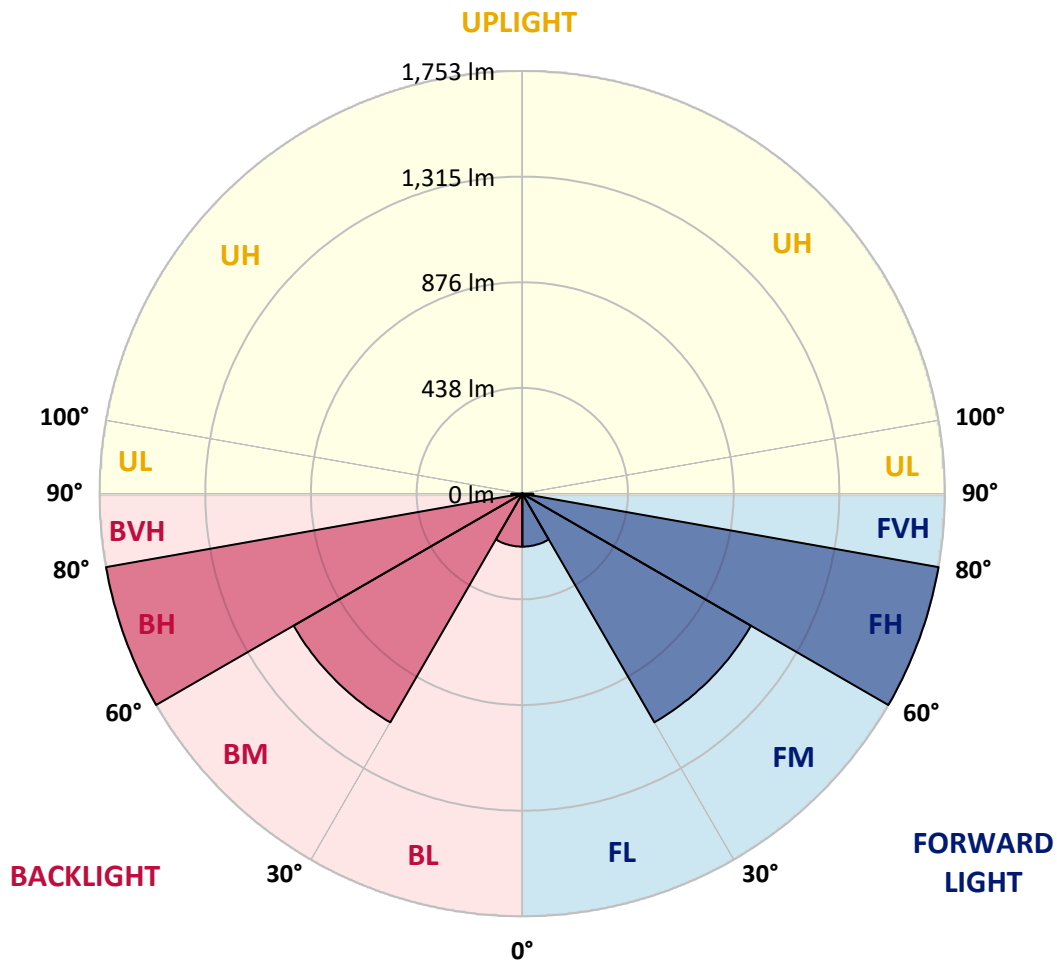
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.8	3.5			
FM (30°-60°)	1095.0	17.6			
FH (60°-80°)	1752.9	28.1			G1/1800
FVH (80°-90°)	45.8	0.7			G1/100
BL (0°-30°)	219.8	3.5	B1/500		
BM (30°-60°)	1095.0	17.6	B2/2500		
BH (60°-80°)	1752.9	28.1	B3/2500		G1/1800
BVH (80°-90°)	45.8	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°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	525.9	526.2	526.2	525.5	525.2	525.2	524.9	524.9	525.9	526.2	526.5
5°	521.3	521.3	521.3	520.9	520.3	520.3	519.6	519.6	520.0	520.9	520.3
7.5°	515.0	515.7	515.7	514.4	513.4	513.4	513.1	513.4	513.7	514.7	514.4
10°	513.1	513.4	511.7	509.4	507.8	506.8	507.1	507.8	509.4	510.1	510.4
12.5°	514.4	514.4	511.4	508.1	505.2	503.8	503.5	505.8	508.8	510.7	511.4
15°	516.0	515.4	511.7	507.5	504.5	504.2	503.8	505.5	509.8	513.7	514.0
17.5°	517.0	516.7	512.1	506.8	505.2	505.2	504.8	506.1	510.7	515.7	516.0
20°	520.3	519.3	514.0	508.4	507.1	507.8	506.8	508.4	513.4	519.3	520.6
22.5°	526.9	525.9	520.6	515.0	514.4	514.4	514.0	515.7	520.9	527.2	528.2
25°	534.8	533.8	528.8	524.9	525.5	526.9	526.2	526.5	530.8	536.1	537.7
27.5°	545.3	543.6	539.4	536.1	538.0	538.0	538.0	537.7	540.3	545.3	546.9
30°	558.1	557.4	552.8	552.5	554.2	552.5	552.5	552.8	553.2	557.8	559.4
32.5°	574.9	573.6	571.3	570.6	575.2	576.5	571.9	567.6	569.9	574.6	575.5
35°	602.5	600.5	597.2	593.6	597.2	603.5	593.6	590.3	596.3	602.5	603.2
37.5°	640.0	639.0	633.7	627.2	626.8	633.4	623.2	622.9	634.1	641.6	642.6
40°	687.0	688.0	681.4	675.2	671.9	677.2	669.3	672.2	683.1	691.6	691.0
42.5°	753.1	749.5	739.3	733.4	729.8	727.8	725.8	730.4	742.6	751.8	759.1
45°	830.4	829.1	816.3	809.0	801.1	798.2	797.5	805.8	820.6	831.7	832.7
47.5°	917.9	914.9	906.7	899.2	896.2	892.6	889.3	895.5	910.3	918.2	920.5
50°	1008.0	1008.7	1008.7	1007.4	1010.3	1011.0	1002.1	1004.4	1012.6	1012.0	1011.3
52.5°	1111.0	1114.6	1131.7	1133.3	1147.5	1157.0	1140.9	1131.3	1128.4	1110.6	1111.9
55°	1232.0	1235.3	1260.9	1286.6	1324.7	1340.8	1307.0	1277.4	1256.3	1229.3	1230.7
57.5°	1382.9	1384.6	1408.9	1458.2	1518.8	1556.6	1497.1	1438.5	1395.8	1370.1	1359.9
60°	1545.4	1547.0	1582.6	1642.7	1736.8	1782.8	1709.2	1613.5	1559.5	1520.4	1523.0
62.5°	1740.4	1747.0	1778.9	1861.8	1975.9	2027.5	1929.9	1801.9	1728.9	1680.2	1682.2
65°	1949.3	1960.4	1995.3	2086.4	2191.6	2247.2	2127.5	1979.8	1889.1	1829.5	1835.8
67.5°	2084.8	2094.6	2144.9	2245.6	2376.8	2422.8	2268.3	2096.3	1982.8	1911.8	1898.6
70°	2050.2	2058.4	2125.5	2268.3	2462.6	2520.9	2301.8	2079.2	1945.6	1863.8	1858.5
72.5°	1809.8	1792.7	1890.7	2095.6	2364.6	2462.3	2196.2	1898.9	1730.9	1646.7	1636.8
75°	1199.4	1236.6	1381.3	1622.7	2000.6	2121.6	1874.6	1524.7	1313.2	1243.2	1232.3
77.5°	400.9	429.5	558.1	919.9	1363.9	1545.7	1365.8	997.2	705.4	568.3	570.9
80°	106.2	104.9	135.8	252.9	589.3	895.2	686.0	337.8	184.8	133.9	126.9
82.5°	38.1	42.8	54.9	70.1	156.2	278.2	196.3	94.7	69.4	51.3	49.7
85°	16.8	16.4	23.7	28.0	39.1	52.0	46.0	40.1	35.2	23.4	21.7
87.5°	3.6	3.6	5.6	4.3	6.9	6.9	8.6	10.2	10.5	6.9	5.6
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)