

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: P451263

Luminaire Tested: **GALN-SA2A-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7090 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

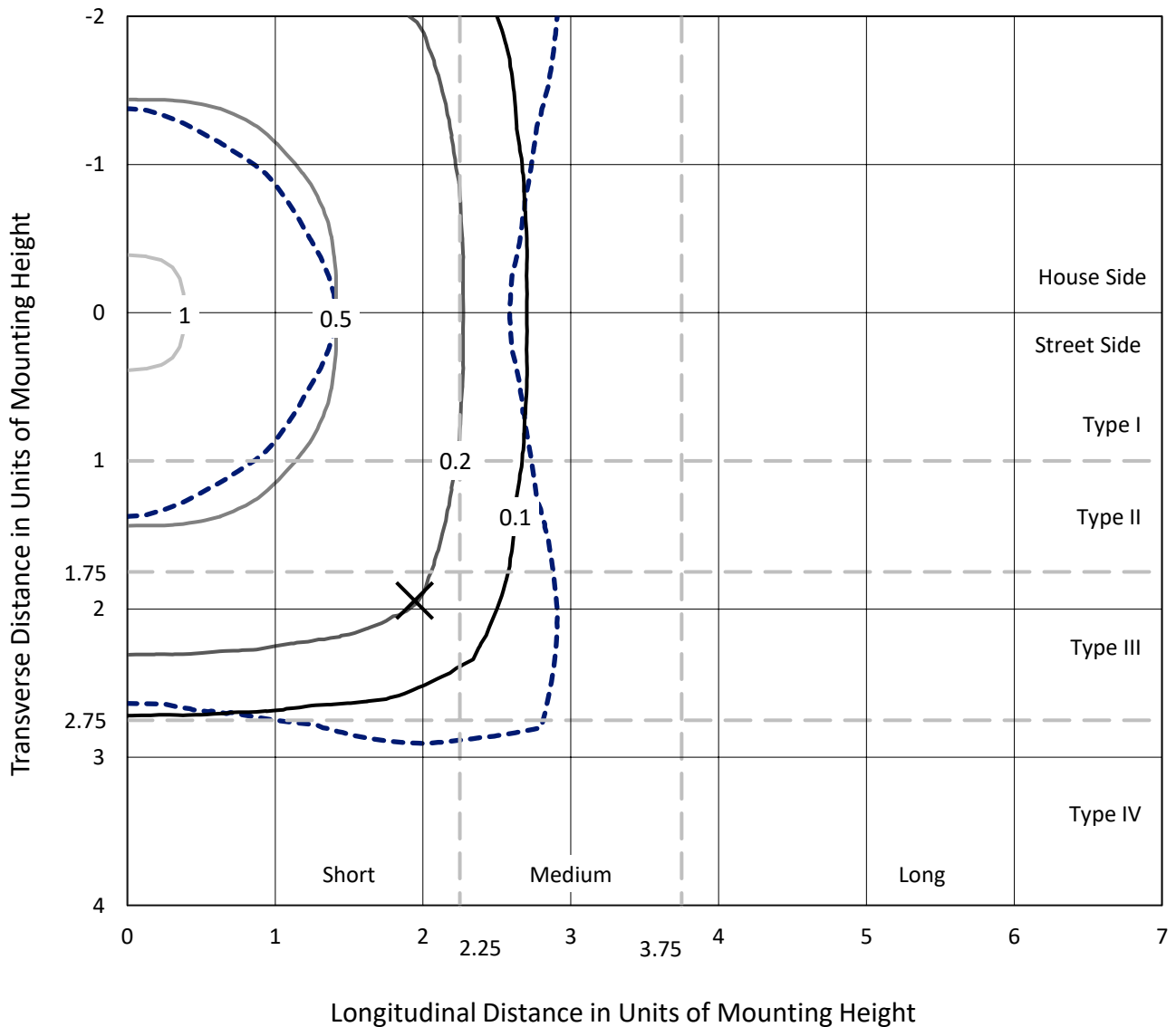
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

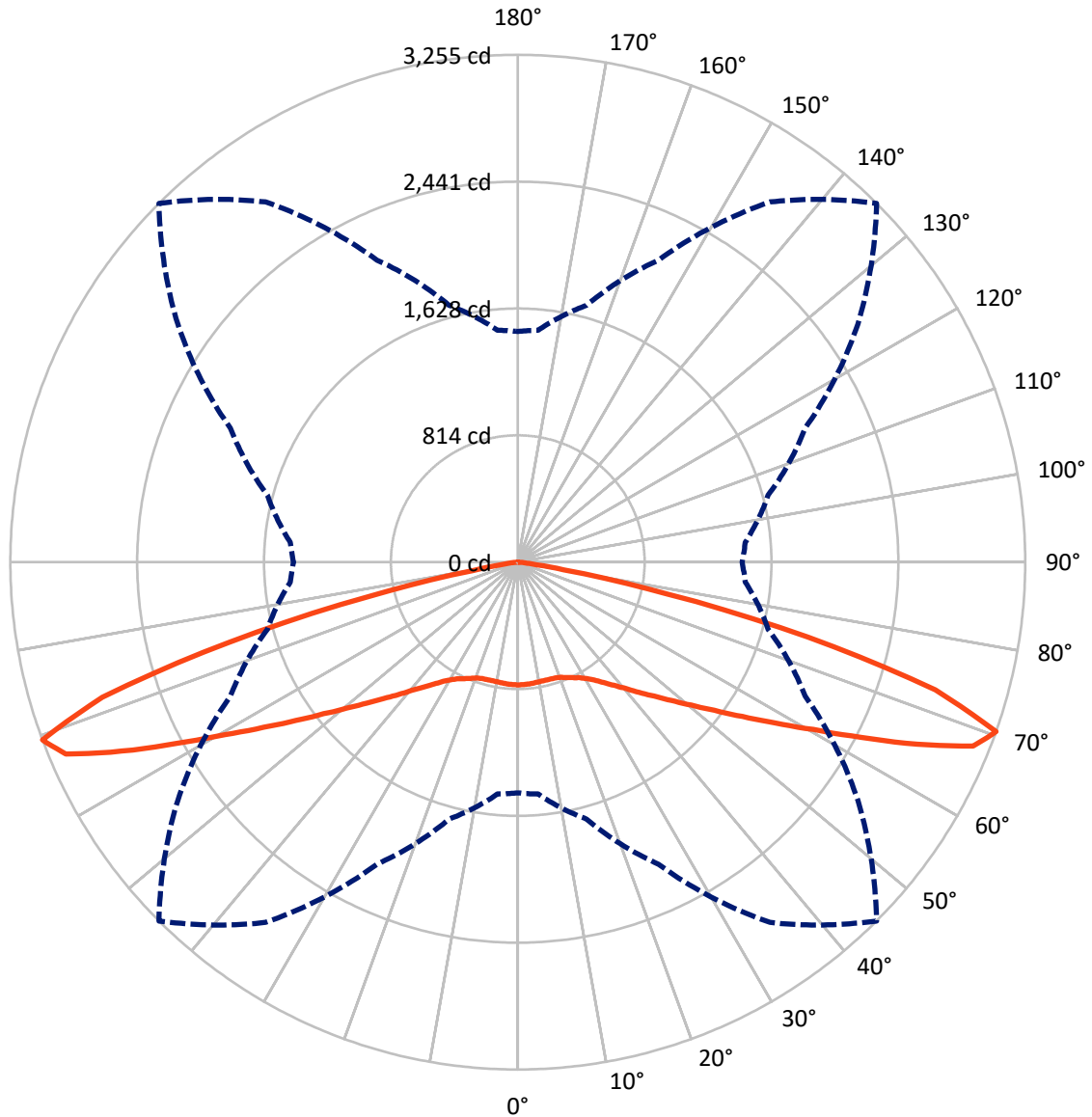
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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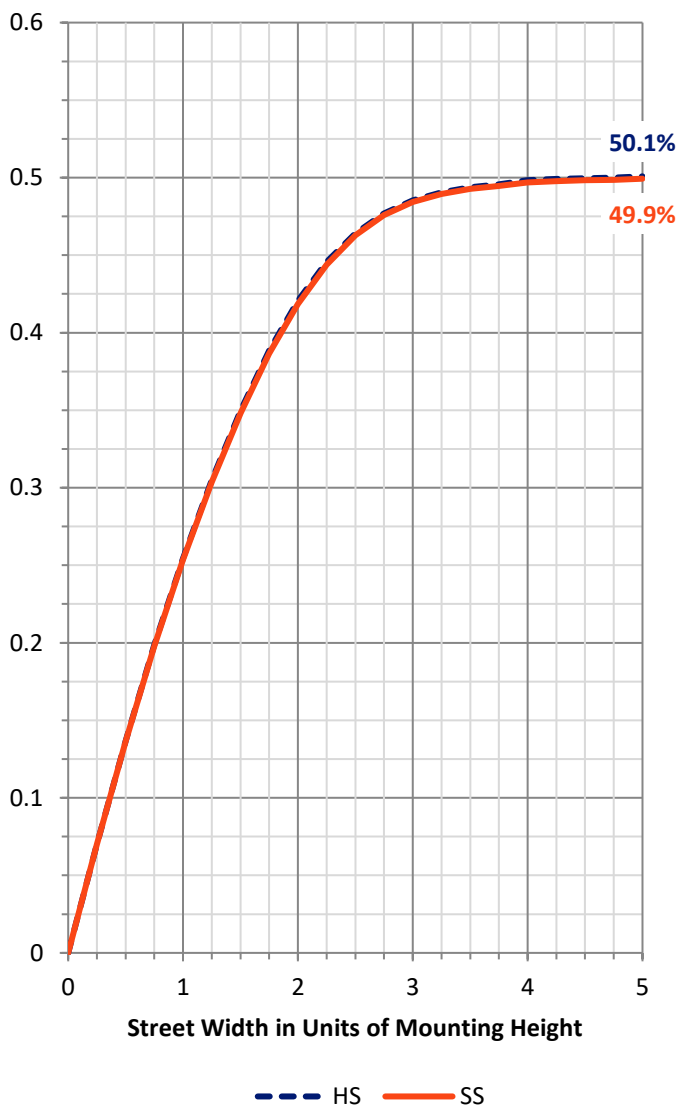
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3545.0	0.0	3545.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3545.0	0.0	3545.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7090.0	0.0	7090.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	1.1
10°-20°	219.1	3.1
20°-30°	374.7	5.3
30°-40°	594.7	8.4
40°-50°	959.5	13.5
50°-60°	1561.1	22.0
60°-70°	2263.0	31.9
70°-80°	1003.8	14.2
80°-90°	39.6	0.6
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°	7090.0	100.0
0°-180°	7090.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451263

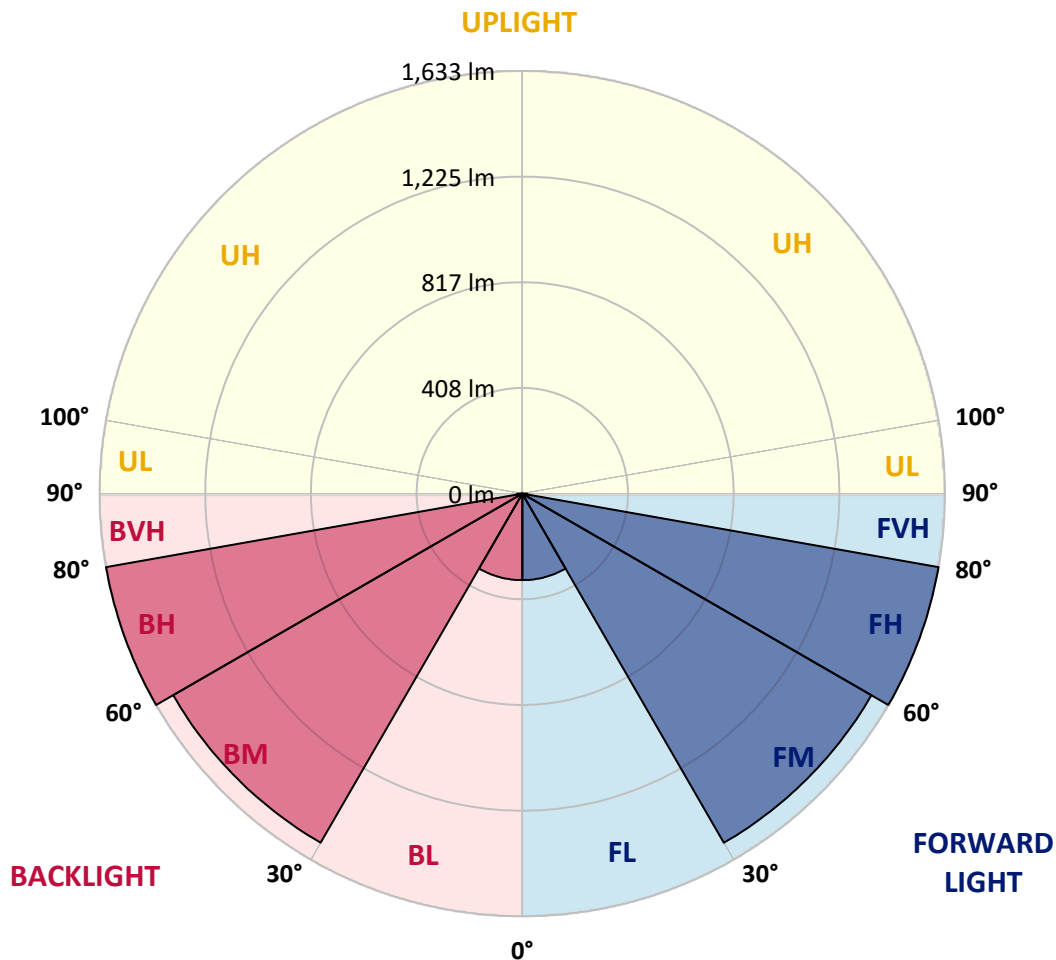
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.2	4.7			
FM (30°-60°)	1557.6	22.0			
FH (60°-80°)	1633.4	23.0			G1/1800
FVH (80°-90°)	19.8	0.3			G1/100
BL (0°-30°)	334.2	4.7	B1/500		
BM (30°-60°)	1557.6	22.0	B2/2500		
BH (60°-80°)	1633.4	23.0	B3/2500		G1/1800
BVH (80°-90°)	19.8	0.3			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°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	787.3	788.1	786.9	786.2	785.8	785.8	785.4	785.8	788.1	788.4	787.3
5°	785.1	785.8	785.4	784.7	784.3	784.3	783.9	783.6	785.4	786.2	785.8
7.5°	782.1	782.5	782.1	781.7	782.1	781.7	780.6	779.8	781.3	781.3	781.0
10°	776.8	777.6	777.2	777.6	778.3	778.3	776.8	775.4	775.7	775.0	775.0
12.5°	770.5	771.6	772.0	773.5	775.4	777.6	774.2	770.9	770.1	769.7	769.4
15°	766.4	767.5	769.0	770.5	773.9	778.7	773.9	768.6	767.1	765.6	764.9
17.5°	765.3	766.8	769.0	771.2	775.7	780.6	776.5	771.2	767.5	765.3	764.5
20°	768.3	769.4	772.7	776.8	783.2	788.1	783.9	778.3	772.7	769.4	768.3
22.5°	774.2	776.1	780.2	787.7	796.7	803.8	798.1	788.8	779.8	775.4	773.9
25°	787.3	788.8	793.7	803.8	814.2	820.9	815.0	804.1	791.8	785.8	783.9
27.5°	807.1	809.4	814.6	826.5	835.1	838.9	834.8	827.3	818.3	812.0	810.5
30°	835.1	837.8	845.6	858.3	863.9	866.2	864.3	859.4	853.1	846.4	844.9
32.5°	872.9	874.4	883.3	895.3	900.5	901.3	899.0	896.8	886.3	875.1	874.4
35°	915.1	917.7	928.6	942.8	947.6	948.0	943.5	940.1	927.8	918.8	918.8
37.5°	971.2	972.3	982.7	998.8	1004.0	1002.5	1000.3	997.3	984.2	972.6	973.0
40°	1036.9	1039.2	1048.1	1066.8	1066.8	1064.9	1066.4	1064.2	1051.1	1039.9	1040.3
42.5°	1115.0	1116.1	1127.0	1146.8	1145.3	1141.5	1143.0	1140.1	1131.8	1119.1	1114.6
45°	1198.3	1202.8	1221.5	1240.6	1237.6	1225.6	1231.6	1230.9	1223.4	1204.3	1205.4
47.5°	1298.9	1306.3	1324.3	1347.1	1343.7	1325.0	1331.7	1336.2	1325.8	1304.8	1301.1
50°	1412.1	1416.9	1443.5	1464.8	1461.8	1442.0	1457.3	1458.0	1431.9	1402.4	1402.4
52.5°	1532.8	1537.6	1573.5	1606.8	1608.6	1579.9	1592.2	1591.4	1548.8	1510.0	1502.5
55°	1668.0	1670.3	1716.6	1765.6	1776.0	1748.0	1749.5	1734.6	1679.2	1634.0	1629.9
57.5°	1807.8	1816.0	1867.2	1930.7	1961.7	1944.6	1936.7	1896.7	1843.3	1791.3	1788.7
60°	1962.5	1962.9	2029.4	2104.5	2167.3	2178.8	2146.7	2093.3	2024.1	1955.4	1952.4
62.5°	2069.7	2085.8	2169.9	2296.9	2409.4	2474.4	2389.6	2277.5	2141.5	2030.5	2019.3
65°	2091.8	2102.6	2230.8	2446.0	2675.8	2815.9	2619.8	2381.4	2149.3	2001.3	1993.9
67.5°	1913.5	1925.1	2097.8	2428.1	2862.6	3150.0	2769.2	2331.3	2016.3	1833.2	1818.6
70°	1480.1	1493.2	1706.5	2137.4	2821.2	3255.0	2662.7	2033.5	1662.8	1465.1	1438.6
72.5°	786.9	835.1	1017.5	1467.0	2289.8	2802.5	2183.3	1483.8	1072.4	876.6	841.5
75°	287.3	293.3	395.0	650.5	1332.1	1921.8	1383.3	707.7	406.9	314.3	298.2
77.5°	118.8	118.5	130.0	196.5	483.9	984.2	539.9	207.8	129.7	119.9	118.5
80°	70.2	70.2	77.3	81.8	127.4	297.1	142.4	92.7	77.7	71.0	72.1
82.5°	31.4	33.3	49.0	51.6	61.7	81.5	68.8	59.0	50.8	35.1	31.8
85°	17.2	14.9	25.8	26.9	29.5	30.3	32.5	32.1	29.5	17.2	17.6
87.5°	3.4	4.1	7.5	5.6	6.4	5.6	7.5	10.5	10.8	6.0	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)