

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: P651708

Luminaire Tested: **GALN-SA2A-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4641.5 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

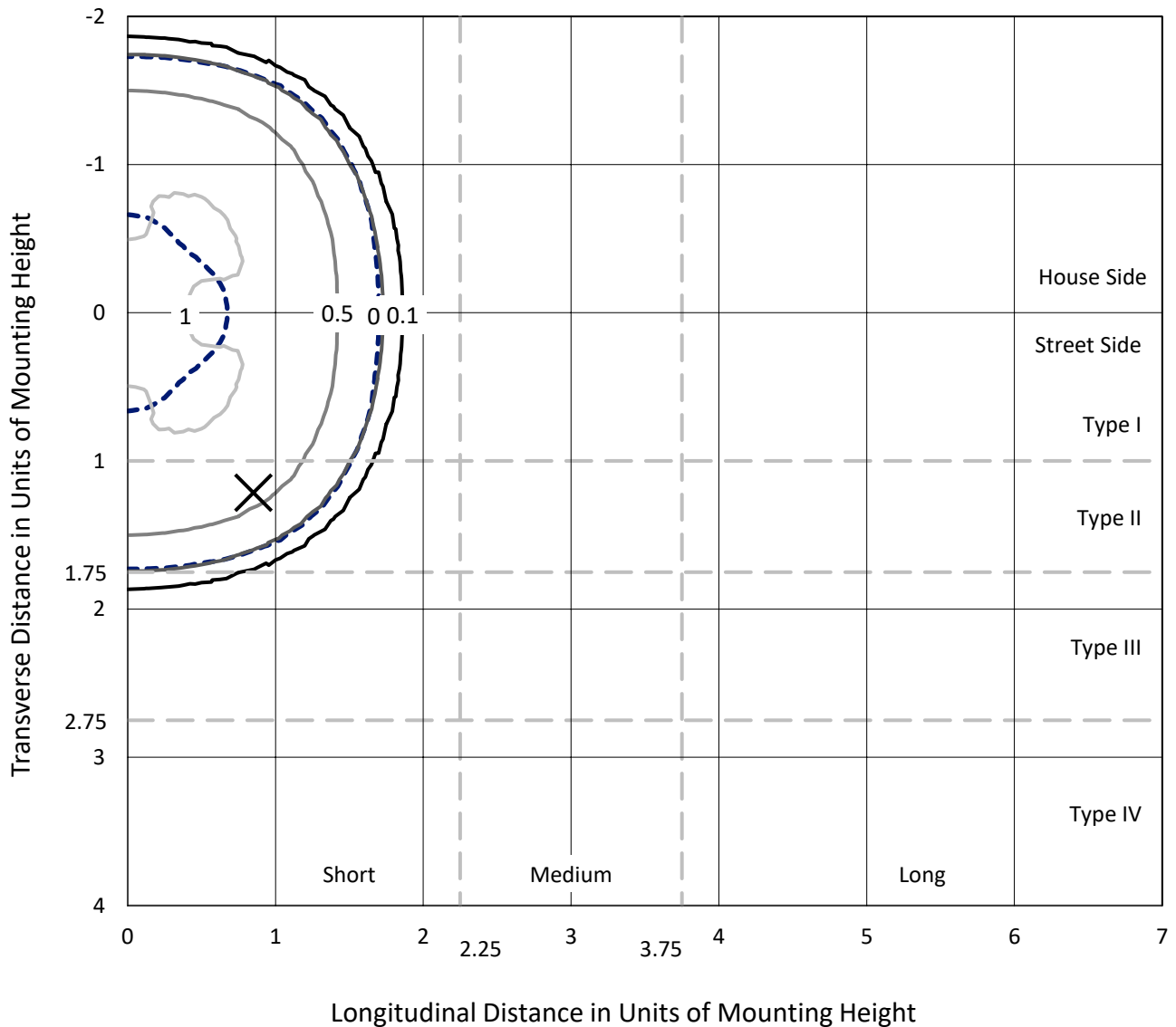
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

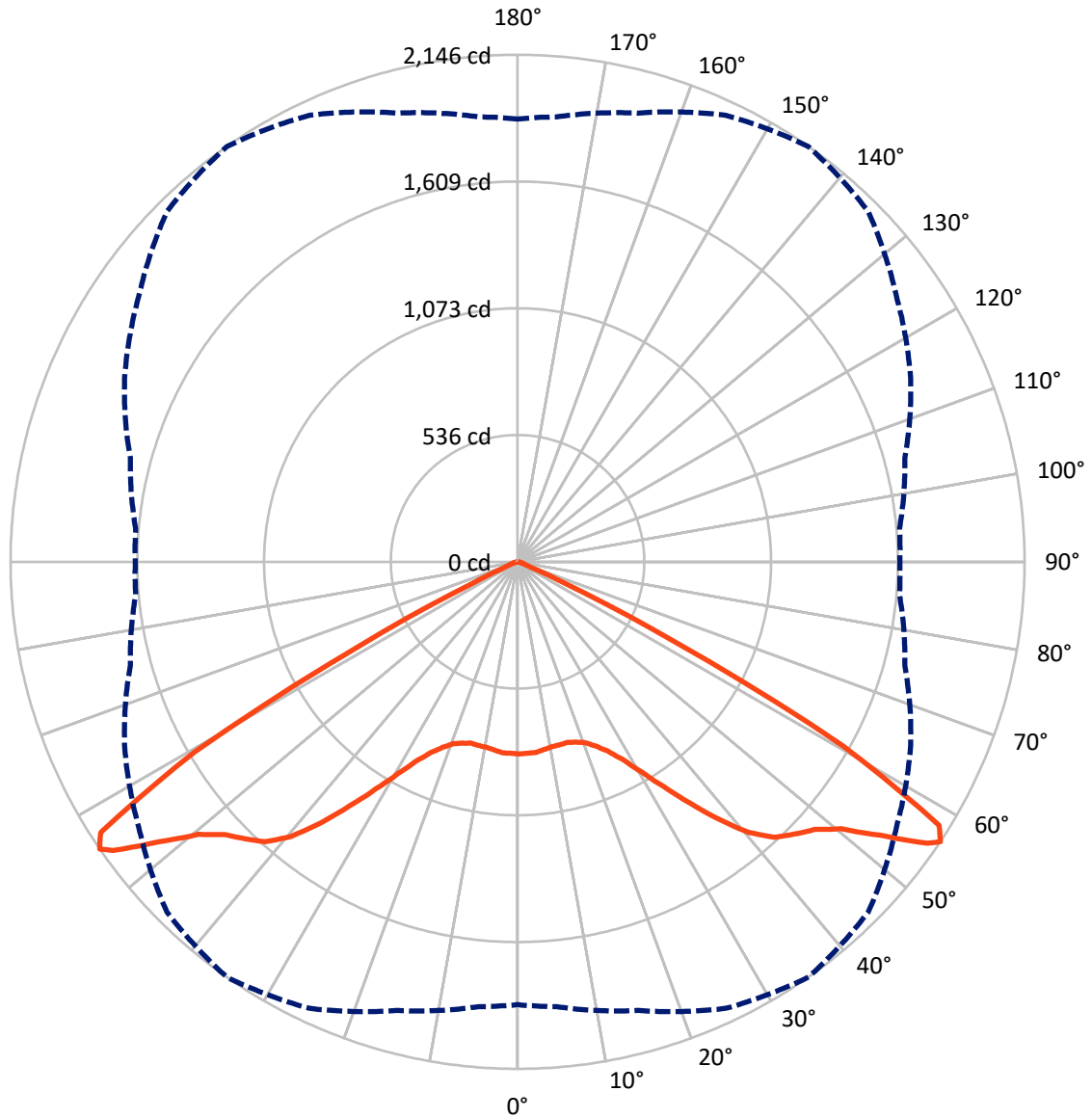
× Max cd  
 - - - 1/2 Max cd



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 35-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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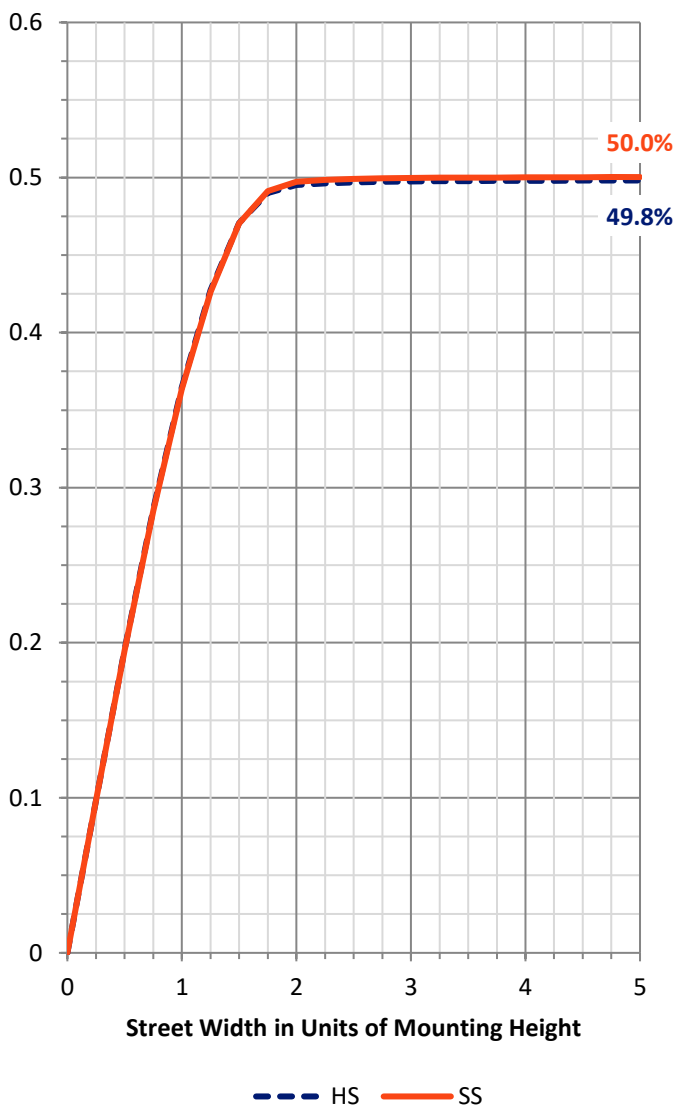
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2320.7	0.0	2320.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2320.7	0.0	2320.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4641.5	0.0	4641.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	1.6
10°-20°	223.1	4.8
20°-30°	404.1	8.7
30°-40°	749.4	16.1
40°-50°	1230.0	26.5
50°-60°	1584.6	34.1
60°-70°	349.2	7.5
70°-80°	20.3	0.4
80°-90°	4.3	0.1
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°	4641.5	100.0
0°-180°	4641.5	100.0

**Coefficient of Utilization**

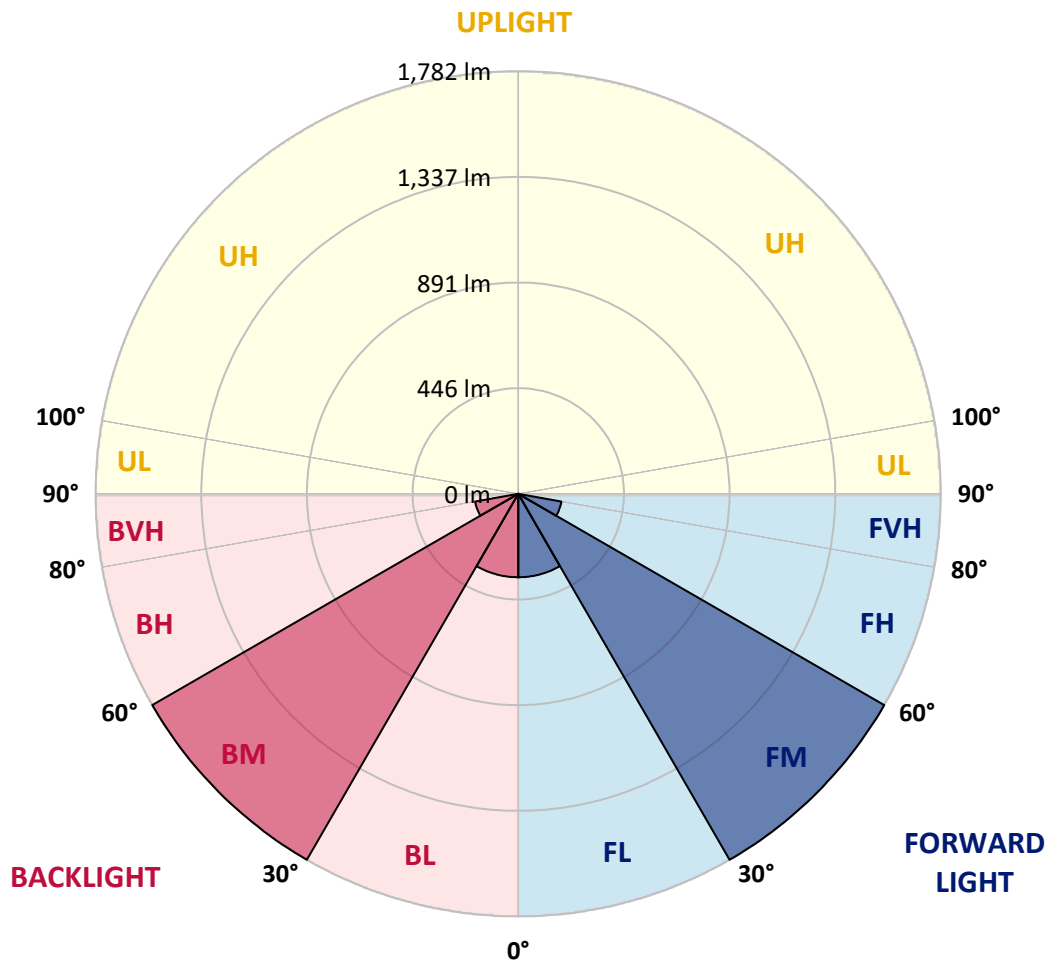


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.8	7.6			
FM (30°-60°)	1782.0	38.4			
FH (60°-80°)	184.7	4.0			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	351.8	7.6	B1/500		
BM (30°-60°)	1782.0	38.4	B2/2500		
BH (60°-80°)	184.7	4.0	B1/500		G0/660
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2
2.5°	814.9	814.9	815.8	816.6	810.7	808.2	809.0	807.4	806.5	809.0	809.0
5°	812.4	812.4	809.9	810.7	810.7	803.2	803.2	804.8	804.8	799.8	798.1
7.5°	805.7	804.0	800.6	804.8	802.3	802.3	796.4	792.2	790.5	793.9	790.5
10°	791.4	792.2	795.6	797.3	795.6	800.6	790.5	784.7	778.8	776.2	776.2
12.5°	784.7	789.7	784.7	788.9	794.7	790.5	784.7	780.4	772.0	768.7	768.7
15°	783.8	787.2	788.9	794.7	792.2	793.9	782.1	777.1	764.5	758.6	756.1
17.5°	783.0	787.2	789.7	800.6	802.3	803.2	793.9	778.8	767.8	761.9	756.1
20°	792.2	793.9	798.9	809.9	816.6	828.4	811.6	795.6	772.0	765.3	762.8
22.5°	804.0	812.4	817.5	829.2	846.9	857.1	835.1	814.9	790.5	782.1	772.0
25°	841.8	840.2	848.6	873.0	887.3	894.9	877.2	847.7	815.8	805.7	807.4
27.5°	889.0	890.7	898.3	925.2	946.2	958.0	937.0	898.3	867.2	850.3	848.6
30°	950.4	948.7	957.1	993.3	1031.2	1048.8	1011.8	966.4	936.1	914.3	919.3
32.5°	1015.2	1016.0	1039.6	1072.4	1133.8	1168.2	1108.5	1053.0	1007.6	992.5	984.9
35°	1111.0	1115.3	1133.8	1184.2	1252.3	1296.9	1231.3	1164.9	1112.7	1085.0	1088.3
37.5°	1229.6	1225.4	1256.5	1311.2	1382.7	1415.5	1360.0	1284.3	1231.3	1212.8	1224.6
40°	1355.8	1360.0	1376.0	1425.6	1505.5	1527.3	1444.9	1403.7	1357.5	1348.2	1362.5
42.5°	1481.9	1479.4	1491.2	1535.8	1593.8	1578.6	1529.9	1505.5	1472.7	1454.2	1473.5
45°	1574.4	1570.2	1592.1	1622.4	1643.4	1614.8	1592.9	1584.5	1567.7	1547.5	1565.2
47.5°	1664.4	1661.1	1682.1	1690.5	1692.2	1654.3	1658.5	1673.7	1631.6	1589.6	1609.8
50°	1741.0	1735.1	1761.1	1779.6	1775.4	1714.9	1730.0	1714.9	1649.3	1599.7	1592.1
52.5°	1868.8	1871.3	1899.1	1932.7	1922.6	1872.2	1850.3	1781.3	1697.2	1652.6	1626.6
55°	1949.5	1936.9	1984.8	2091.7	2103.4	2051.3	1954.6	1852.8	1726.7	1672.0	1665.3
56°	1873.8	1889.8	1965.5	2084.9	2145.5	2097.5	1957.1	1835.1	1696.4	1622.4	1617.3
57.5°	1681.2	1672.8	1775.4	1938.6	2103.4	2083.2	1888.1	1709.0	1547.5	1464.3	1454.2
60°	1046.3	1070.7	1160.7	1362.5	1582.8	1592.9	1399.5	1245.6	1057.2	983.2	1000.9
62.5°	409.6	388.5	444.9	595.4	746.8	780.4	707.3	587.9	482.7	409.6	404.5
65°	95.0	92.5	104.3	143.8	201.0	233.0	221.2	158.9	116.9	111.0	102.6
67.5°	53.8	53.8	51.3	51.3	56.3	59.7	57.2	56.3	58.9	61.4	60.6
70°	37.8	37.0	35.3	36.2	34.5	34.5	37.0	41.2	44.6	44.6	45.4
72.5°	22.7	22.7	22.7	25.2	25.2	25.2	27.8	31.1	32.0	31.1	30.3
75°	10.1	10.1	11.8	14.3	16.0	16.8	19.3	21.0	22.7	21.0	19.3
77.5°	2.5	2.5	4.2	5.9	7.6	9.3	12.6	15.1	16.0	15.1	12.6
80°	0.8	0.8	1.7	4.2	7.6	9.3	12.6	13.5	14.3	12.6	10.1
82.5°	0.8	0.8	1.7	4.2	5.9	7.6	10.1	11.8	12.6	10.9	10.1
85°	0.0	0.8	1.7	3.4	5.0	6.7	6.7	5.0	4.2	2.5	3.4
87.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)