

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: P646708

Luminaire Tested: **GALN-SA1C-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5813 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

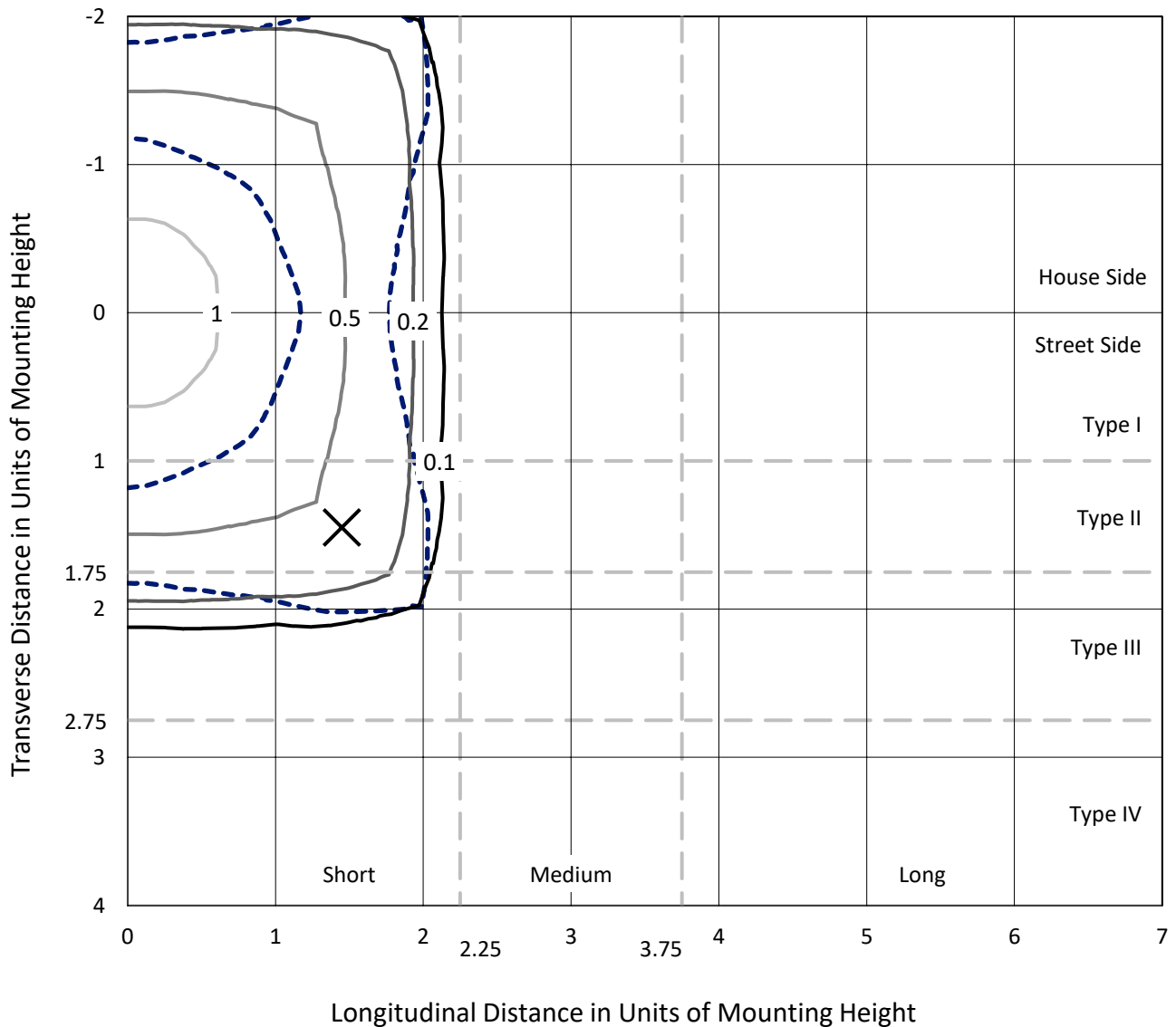
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

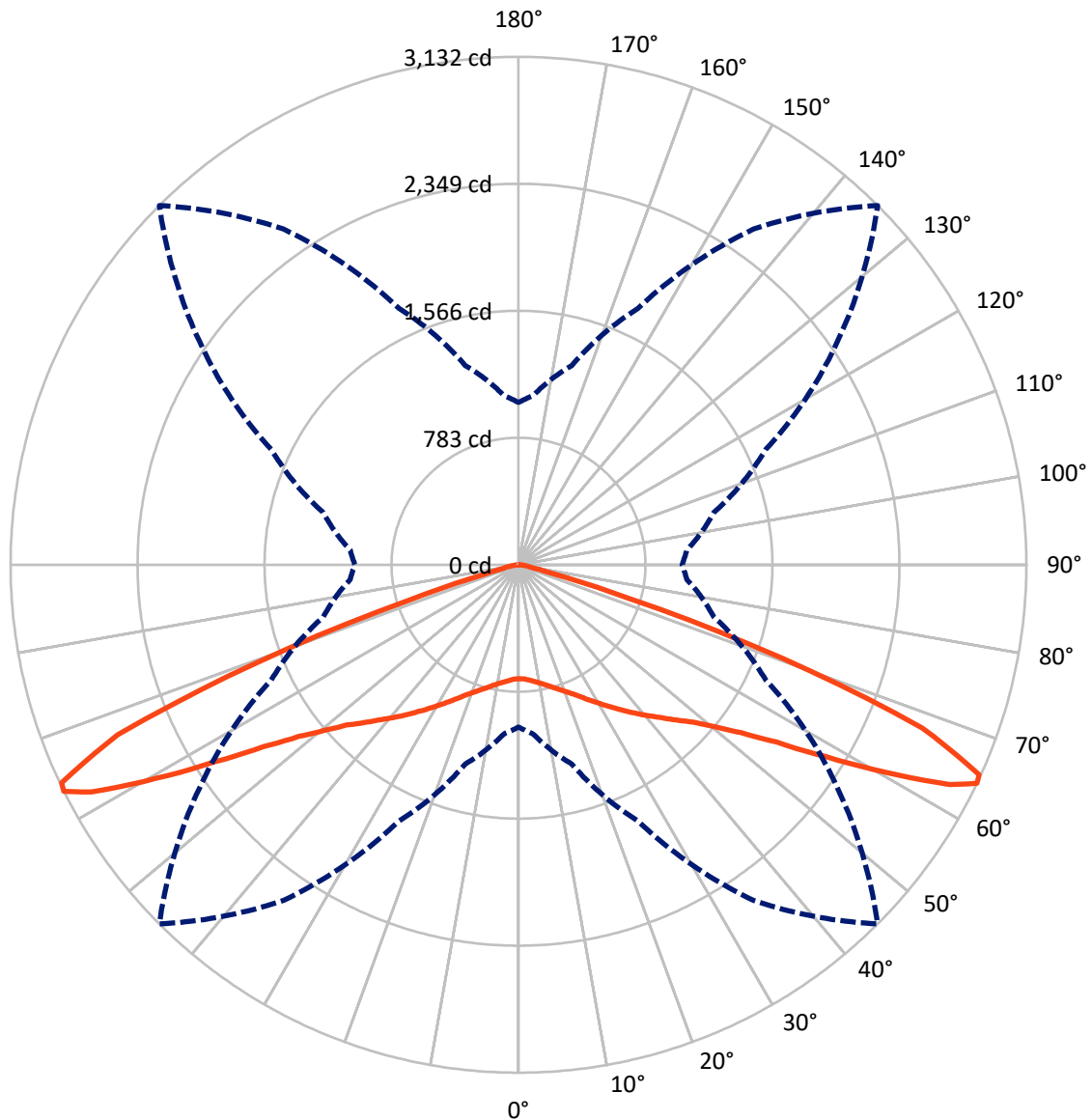
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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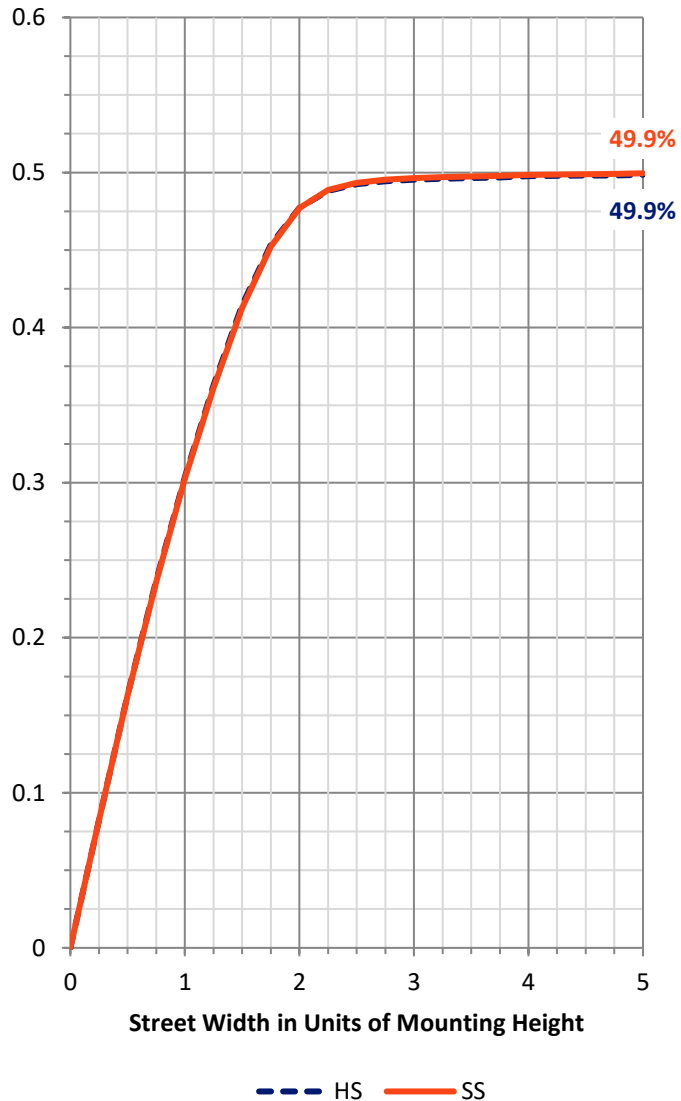
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2906.5	0.0	2906.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2906.5	0.0	2906.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5813.0	0.0	5813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	1.2
10°-20°	222.7	3.8
20°-30°	420.7	7.2
30°-40°	696.8	12.0
40°-50°	1087.8	18.7
50°-60°	1681.7	28.9
60°-70°	1450.1	24.9
70°-80°	164.3	2.8
80°-90°	19.7	0.3
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°	5813.0	100.0
0°-180°	5813.0	100.0

**Coefficient of Utilization**



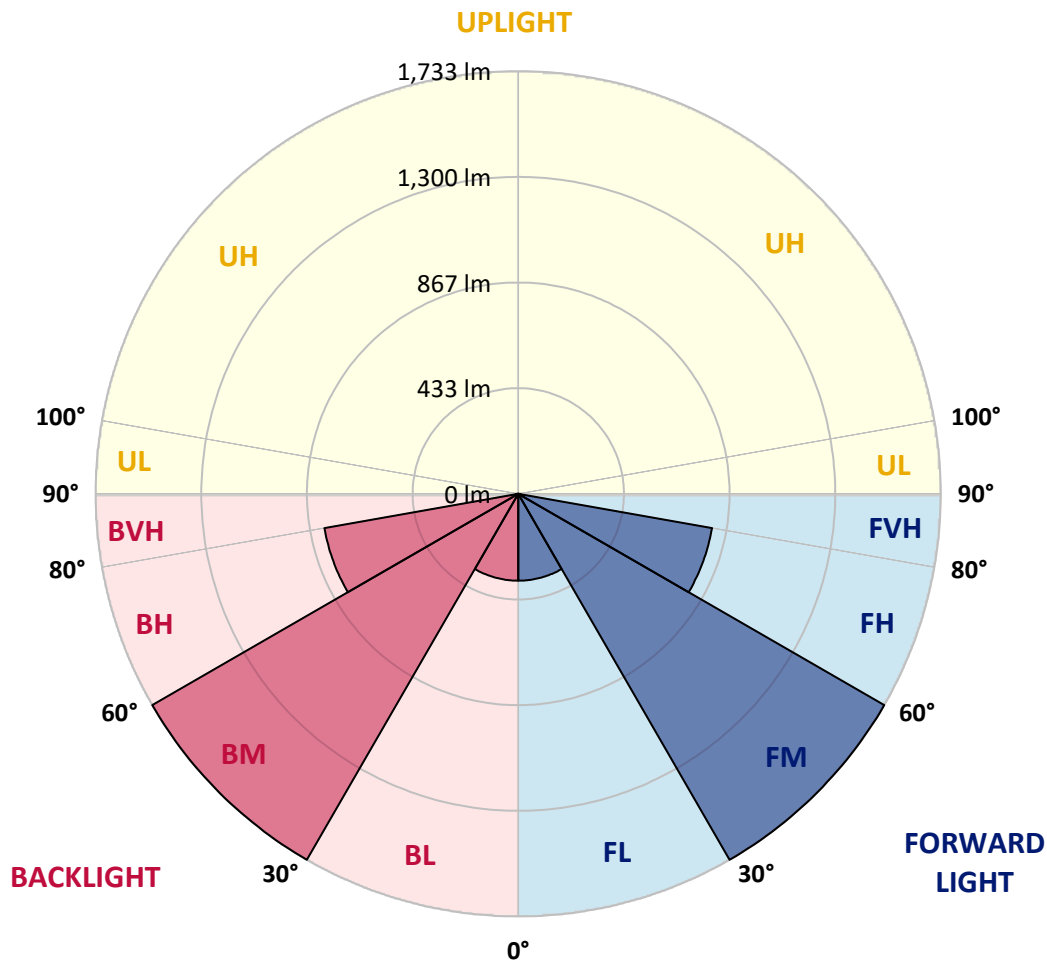
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.2	6.1			
FM (30°-60°)	1733.2	29.8			
FH (60°-80°)	807.2	13.9			G1/1800
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	356.2	6.1	B1/500		
BM (30°-60°)	1733.2	29.8	B2/2500		
BH (60°-80°)	807.2	13.9	B2/1000		G1/1800
BVH (80°-90°)	9.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6	702.6
2.5°	705.4	706.9	705.6	705.4	705.1	705.1	705.1	705.4	706.6	707.5	706.9
5°	714.3	715.5	714.9	714.6	714.3	714.6	714.0	713.7	714.6	714.6	714.3
7.5°	725.4	726.9	726.3	726.9	727.3	727.6	726.0	724.7	724.4	725.4	724.7
10°	740.5	741.7	742.0	742.3	742.9	742.6	740.8	738.6	738.3	738.0	737.7
12.5°	757.4	758.3	758.6	759.9	760.8	761.1	759.0	757.1	754.0	754.7	753.4
15°	776.5	778.3	778.1	779.9	782.4	782.9	780.8	777.8	774.9	773.4	772.5
17.5°	799.9	801.1	800.5	802.3	805.4	807.0	805.2	801.1	798.3	795.0	793.1
20°	827.6	829.7	830.4	830.4	833.1	834.7	831.9	830.7	826.4	823.9	822.4
22.5°	859.0	859.9	861.8	863.6	866.4	865.8	864.8	863.0	859.0	856.8	854.4
25°	894.4	895.4	900.0	904.0	904.9	904.3	903.0	902.1	898.4	893.5	891.6
27.5°	935.7	937.5	943.7	947.4	947.4	947.7	945.2	948.3	940.3	934.4	933.8
30°	987.4	988.6	993.9	997.5	995.7	994.2	993.5	996.6	988.0	977.6	975.1
32.5°	1038.5	1042.8	1047.4	1055.4	1049.0	1046.2	1045.6	1047.7	1037.9	1026.2	1022.8
35°	1093.3	1096.4	1105.0	1111.8	1105.9	1099.5	1102.2	1109.0	1097.3	1081.6	1081.0
37.5°	1154.0	1156.7	1167.8	1174.9	1170.6	1159.5	1164.1	1172.2	1160.4	1141.1	1137.0
40°	1217.1	1222.9	1236.7	1244.2	1237.1	1222.3	1231.0	1239.6	1229.1	1206.6	1197.7
42.5°	1287.9	1297.1	1317.2	1320.8	1307.3	1287.3	1302.4	1316.2	1308.9	1282.9	1279.6
45°	1370.7	1376.3	1400.9	1408.9	1390.1	1365.2	1384.0	1409.2	1403.7	1373.8	1367.4
47.5°	1463.3	1468.6	1494.2	1506.2	1482.5	1448.9	1482.8	1515.7	1512.4	1480.3	1477.2
50°	1573.0	1574.2	1609.6	1623.2	1599.4	1570.5	1600.7	1641.6	1628.1	1587.1	1586.5
52.5°	1693.1	1694.6	1739.3	1765.4	1752.2	1719.5	1755.3	1780.2	1745.7	1692.1	1688.1
55°	1797.1	1804.8	1865.8	1935.3	1953.5	1929.9	1940.6	1928.9	1844.0	1768.8	1757.1
57.5°	1839.7	1854.7	1947.4	2077.3	2195.5	2230.6	2147.5	2036.0	1883.0	1776.8	1765.4
60°	1735.8	1752.2	1896.0	2142.6	2444.3	2596.7	2363.0	2054.2	1794.1	1644.8	1626.8
62.5°	1390.1	1394.8	1606.2	1989.0	2589.3	2984.0	2453.8	1899.3	1535.1	1332.2	1325.1
64°	1000.4	1047.7	1271.9	1743.9	2525.9	3131.5	2401.5	1682.3	1246.9	1041.5	1008.3
65°	748.2	761.1	1025.3	1489.3	2414.1	3120.4	2299.9	1474.8	1032.6	797.1	760.1
67.5°	282.7	284.2	378.4	742.3	1718.6	2684.8	1755.3	802.3	435.0	314.7	303.3
70°	117.3	119.5	138.8	249.7	738.6	1723.9	846.3	289.4	159.2	129.0	127.2
72.5°	85.9	87.1	93.0	110.9	227.2	707.8	278.4	122.9	93.3	83.5	82.5
75°	67.4	68.0	72.3	81.6	105.9	196.1	115.7	84.3	71.1	64.0	63.4
77.5°	51.4	52.9	56.1	62.2	71.1	93.0	76.7	63.1	54.8	48.9	48.0
80°	35.4	37.3	43.1	45.6	47.7	60.4	52.3	47.7	42.8	35.7	33.6
82.5°	21.8	23.1	29.0	31.1	30.1	33.9	33.6	34.1	30.5	22.2	20.6
85°	11.4	12.0	15.7	16.3	15.1	13.9	17.2	20.0	18.8	12.6	12.3
87.5°	2.4	2.7	3.4	3.1	3.4	3.4	4.3	6.5	6.8	4.3	4.0
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)