

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: P648193

Luminaire Tested: **GALN-SA1B-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648193  
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-SA1B-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4705 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

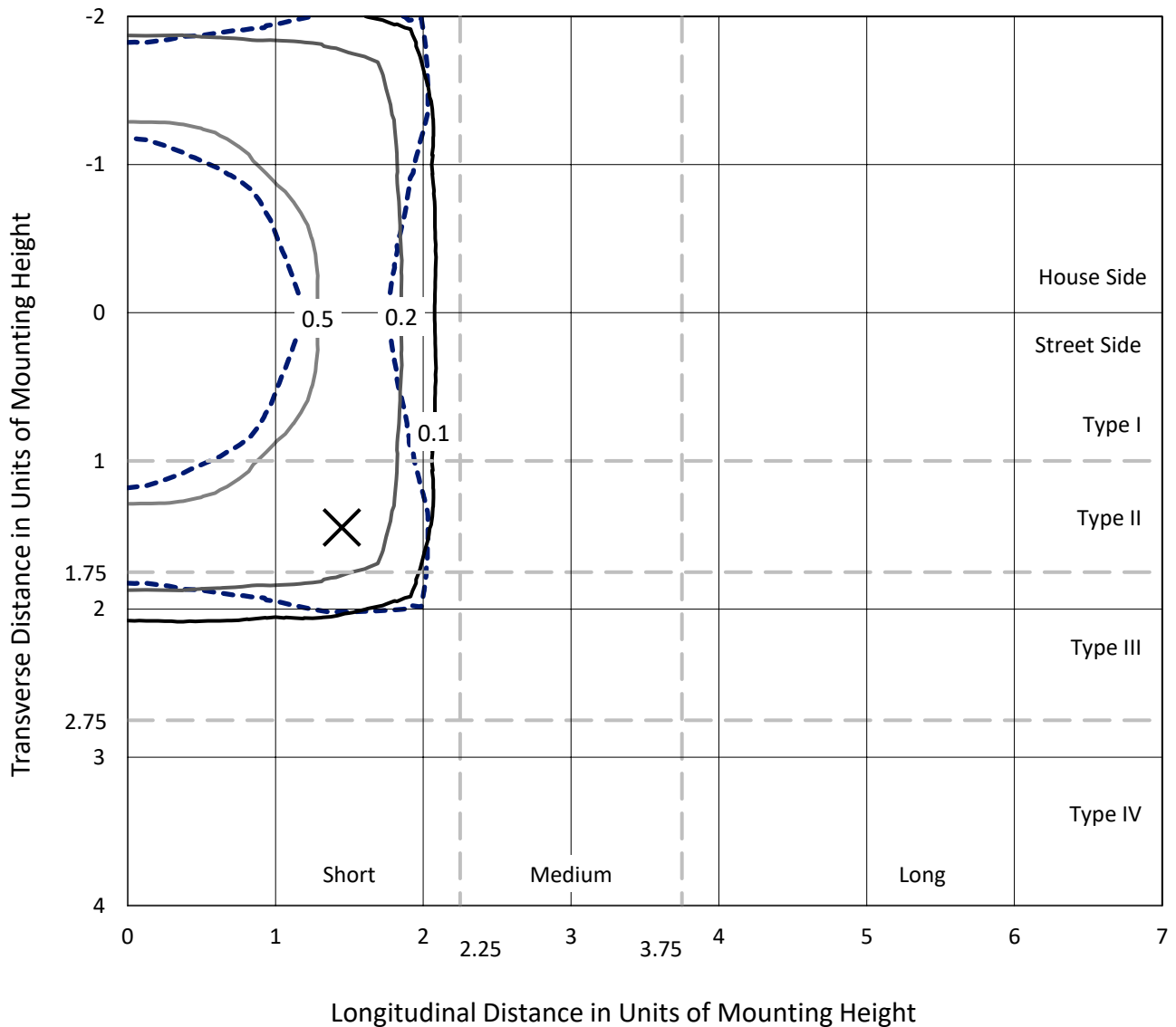
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

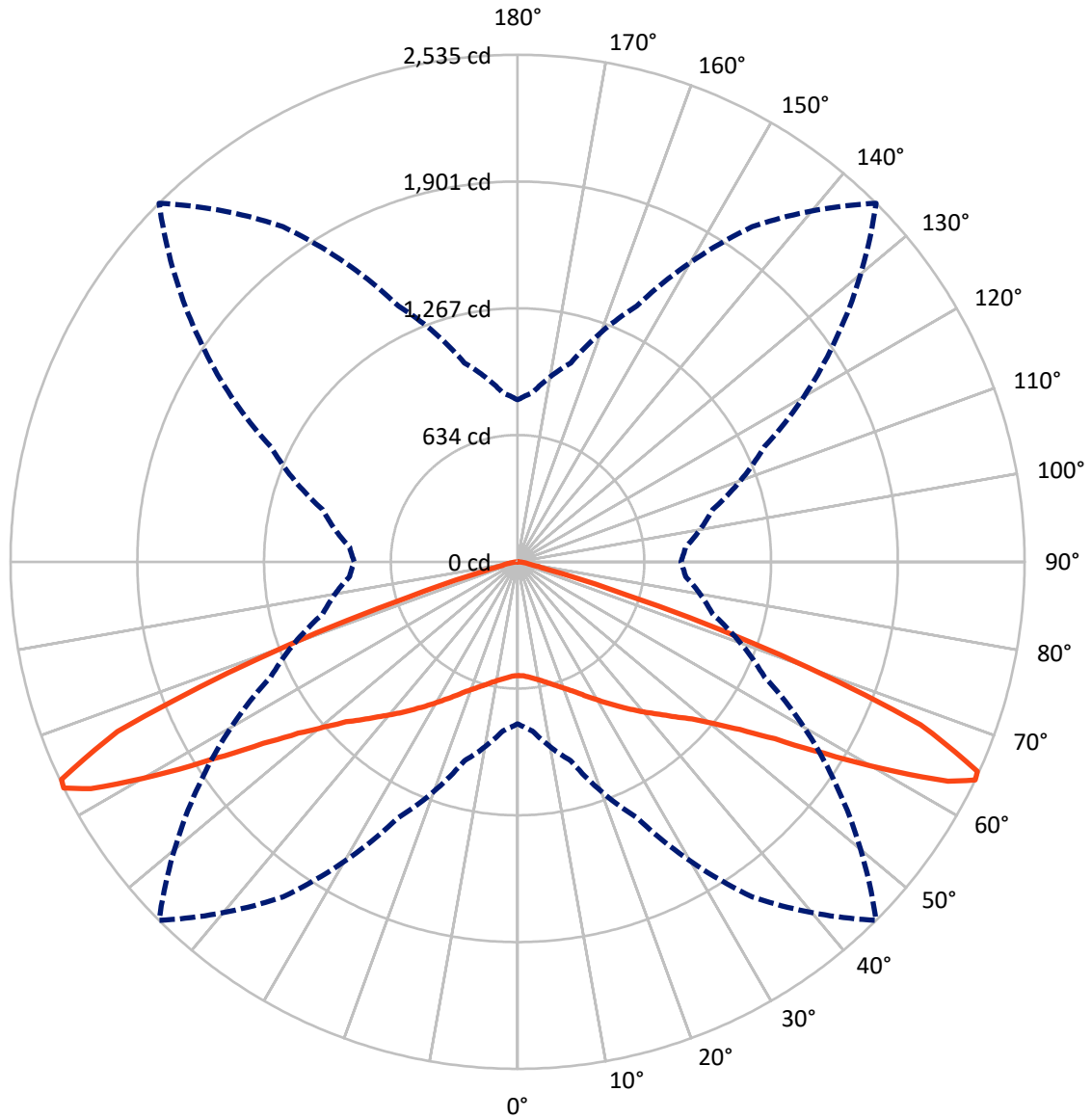
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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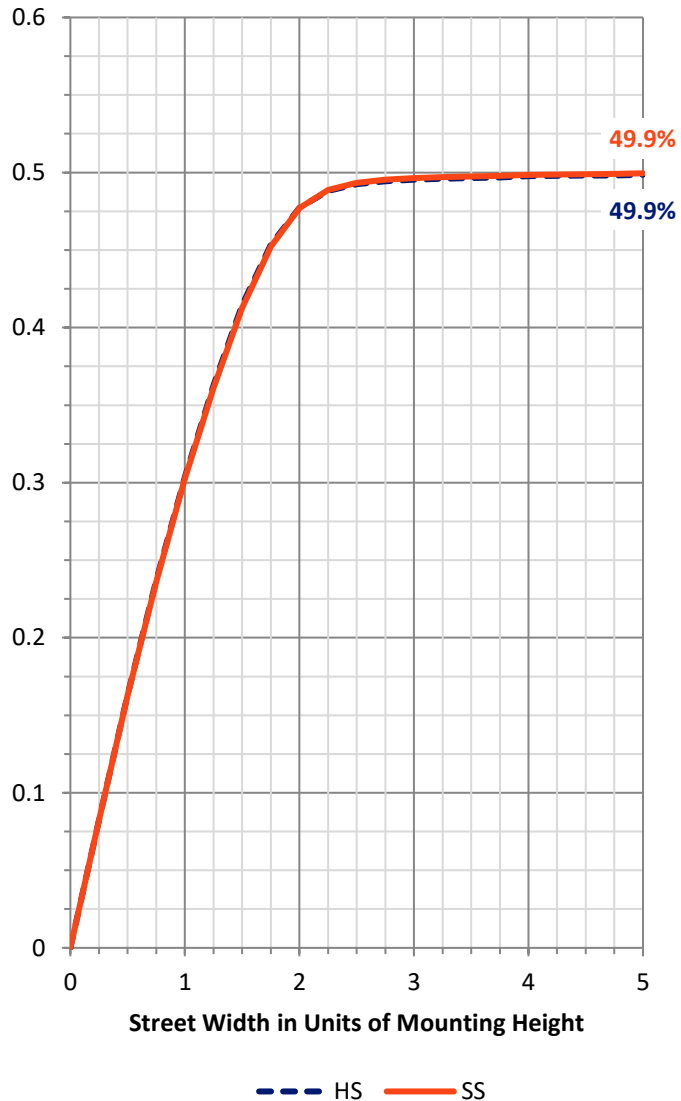
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2352.5	0.0	2352.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2352.5	0.0	2352.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4705.0	0.0	4705.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	1.2
10°-20°	180.2	3.8
20°-30°	340.6	7.2
30°-40°	564.0	12.0
40°-50°	880.5	18.7
50°-60°	1361.2	28.9
60°-70°	1173.8	24.9
70°-80°	133.0	2.8
80°-90°	15.9	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°	4705.0	100.0
0°-180°	4705.0	100.0

**Coefficient of Utilization**

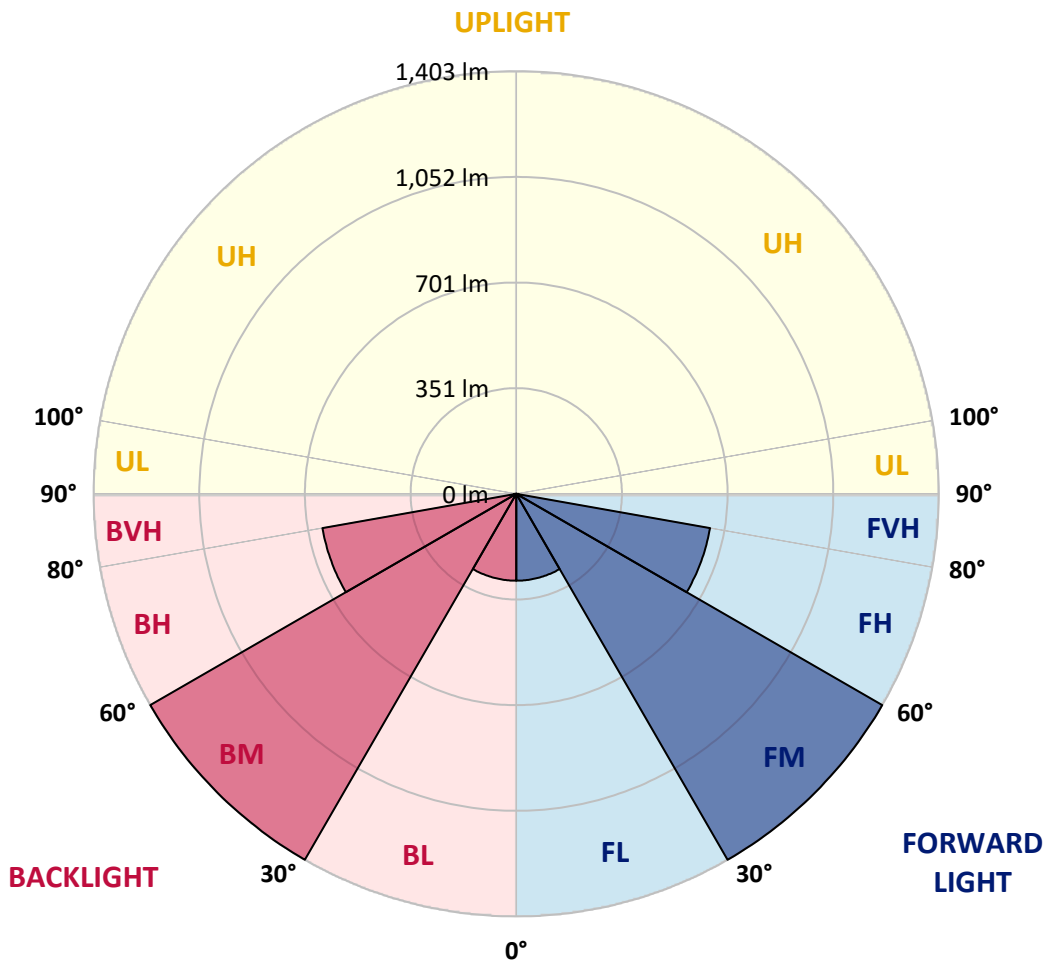


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.3	6.1			
FM (30°-60°)	1402.9	29.8			
FH (60°-80°)	653.4	13.9			G0/660
FVH (80°-90°)	8.0	0.2			G0/10
BL (0°-30°)	288.3	6.1	B1/500		
BM (30°-60°)	1402.9	29.8	B2/2500		
BH (60°-80°)	653.4	13.9	B2/1000		G0/660
BVH (80°-90°)	8.0	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-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7
2.5°	571.0	572.1	571.2	571.0	570.7	570.7	570.7	571.0	571.9	572.7	572.1
5°	578.2	579.2	578.6	578.4	578.2	578.4	577.9	577.6	578.4	578.4	578.2
7.5°	587.1	588.3	587.9	588.3	588.7	588.9	587.6	586.6	586.4	587.1	586.6
10°	599.3	600.3	600.6	600.8	601.3	601.1	599.6	597.8	597.6	597.4	597.1
12.5°	613.0	613.8	614.0	615.0	615.8	616.1	614.3	612.8	610.3	610.8	609.8
15°	628.5	630.0	629.8	631.3	633.2	633.8	632.0	629.5	627.3	626.0	625.2
17.5°	647.5	648.4	647.9	649.4	651.9	653.2	651.7	648.4	646.2	643.5	642.0
20°	669.9	671.6	672.1	672.1	674.3	675.6	673.4	672.4	668.8	666.9	665.6
22.5°	695.3	696.0	697.5	699.0	701.3	700.8	700.0	698.5	695.3	693.5	691.5
25°	724.0	724.7	728.4	731.6	732.4	731.9	730.9	730.1	727.2	723.2	721.7
27.5°	757.3	758.8	763.8	766.8	766.8	767.0	765.1	767.6	761.1	756.3	755.8
30°	799.2	800.2	804.5	807.4	805.9	804.7	804.2	806.6	799.7	791.2	789.3
32.5°	840.6	844.1	847.8	854.3	849.0	846.8	846.3	848.1	840.1	830.6	827.9
35°	884.9	887.5	894.4	899.9	895.1	889.9	892.2	897.6	888.2	875.5	874.9
37.5°	934.0	936.2	945.2	951.0	947.5	938.5	942.3	948.7	939.3	923.5	920.3
40°	985.1	989.9	1001.1	1007.0	1001.3	989.3	996.3	1003.3	994.8	976.6	969.4
42.5°	1042.4	1049.9	1066.1	1069.1	1058.1	1041.9	1054.2	1065.3	1059.4	1038.4	1035.7
45°	1109.4	1114.0	1133.9	1140.4	1125.2	1105.0	1120.2	1140.6	1136.1	1111.9	1106.7
47.5°	1184.4	1188.7	1209.4	1219.1	1199.9	1172.8	1200.2	1226.8	1224.1	1198.1	1195.7
50°	1273.2	1274.2	1302.8	1313.8	1294.6	1271.2	1295.6	1328.8	1317.8	1284.7	1284.1
52.5°	1370.4	1371.6	1407.8	1429.0	1418.2	1391.8	1420.7	1440.9	1413.0	1369.6	1366.4
55°	1454.6	1460.8	1510.2	1566.5	1581.2	1562.0	1570.7	1561.3	1492.5	1431.7	1422.2
57.5°	1489.0	1501.2	1576.2	1681.4	1777.1	1805.5	1738.2	1648.0	1524.1	1438.1	1429.0
60°	1405.0	1418.2	1534.6	1734.2	1978.4	2101.8	1912.6	1662.7	1452.2	1331.3	1316.8
62.5°	1125.2	1128.9	1300.1	1609.8	2095.8	2415.3	1986.2	1537.3	1242.5	1078.3	1072.6
64°	809.7	848.1	1029.5	1411.5	2044.5	2534.6	1943.8	1361.6	1009.3	843.1	816.1
65°	605.6	616.1	829.8	1205.4	1954.0	2525.7	1861.6	1193.7	835.9	645.2	615.3
67.5°	228.8	230.0	306.3	600.8	1391.1	2173.1	1420.7	649.4	352.1	254.7	245.5
70°	95.0	96.7	112.4	202.1	597.8	1395.3	685.0	234.3	128.8	104.5	102.9
72.5°	69.5	70.5	75.2	89.7	183.9	572.9	225.3	99.4	75.5	67.6	66.8
75°	54.6	55.0	58.6	66.0	85.7	158.7	93.7	68.3	57.6	51.8	51.4
77.5°	41.7	42.8	45.3	50.3	57.6	75.2	62.0	51.1	44.4	39.6	38.8
80°	28.7	30.1	34.9	36.9	38.6	48.9	42.4	38.6	34.6	28.9	27.2
82.5°	17.7	18.7	23.4	25.1	24.4	27.4	27.2	27.6	24.7	17.9	16.7
85°	9.2	9.7	12.7	13.2	12.2	11.2	13.9	16.2	15.2	10.2	9.9
87.5°	2.0	2.3	2.7	2.5	2.7	2.7	3.5	5.2	5.5	3.5	3.2
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)