

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: P646718

Luminaire Tested: **GALN-SA1C-835-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
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-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5747.2 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

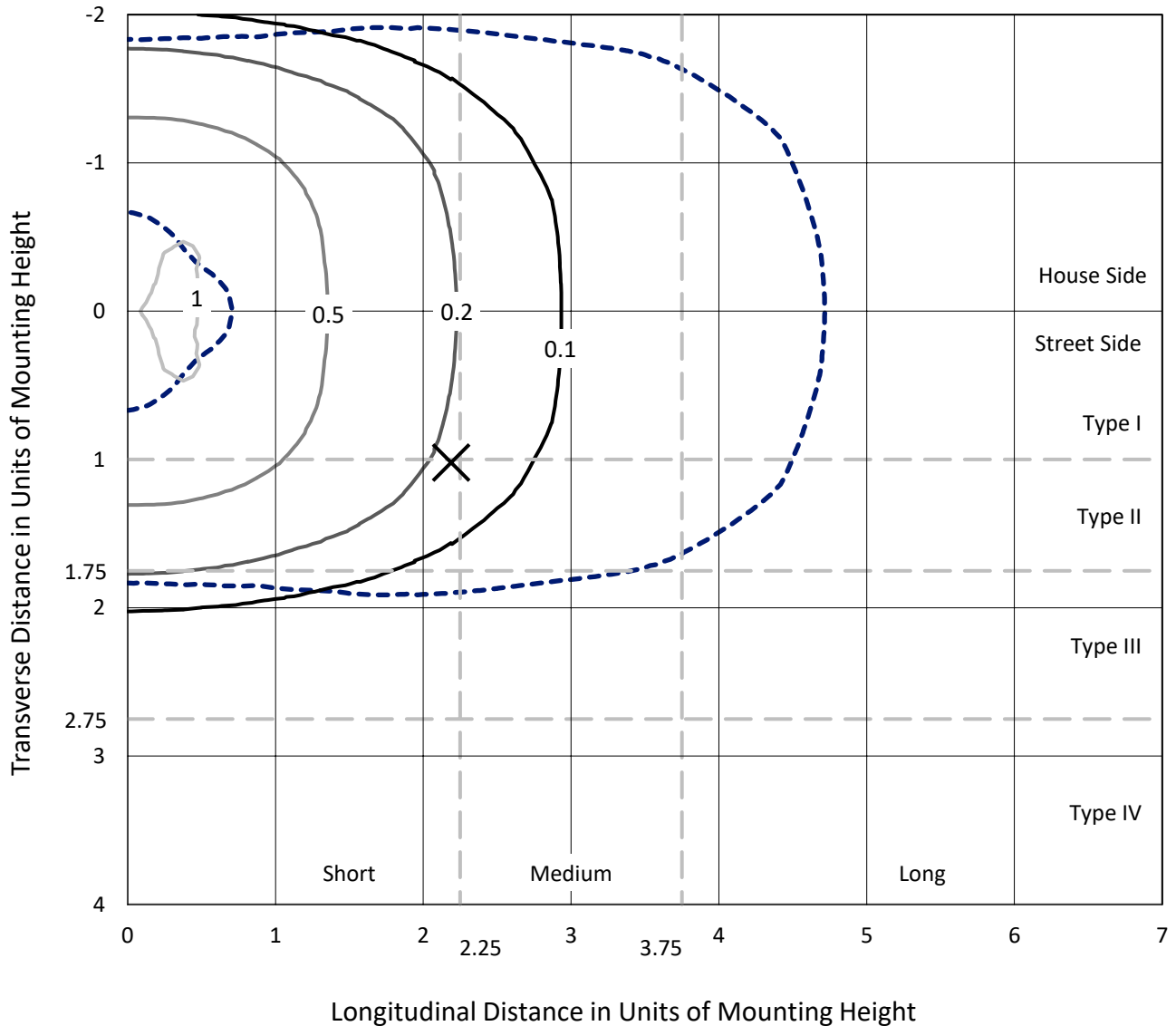
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

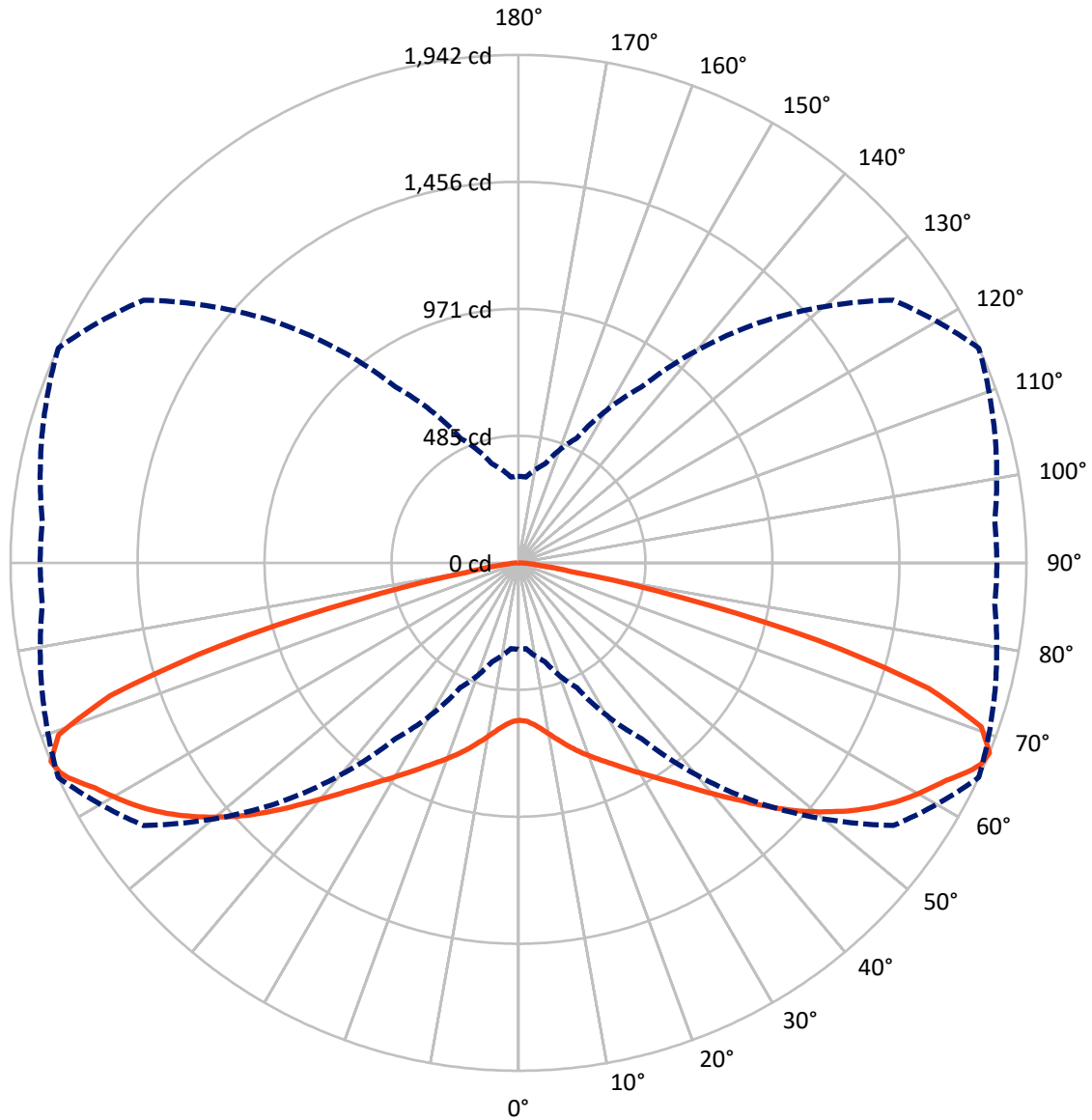
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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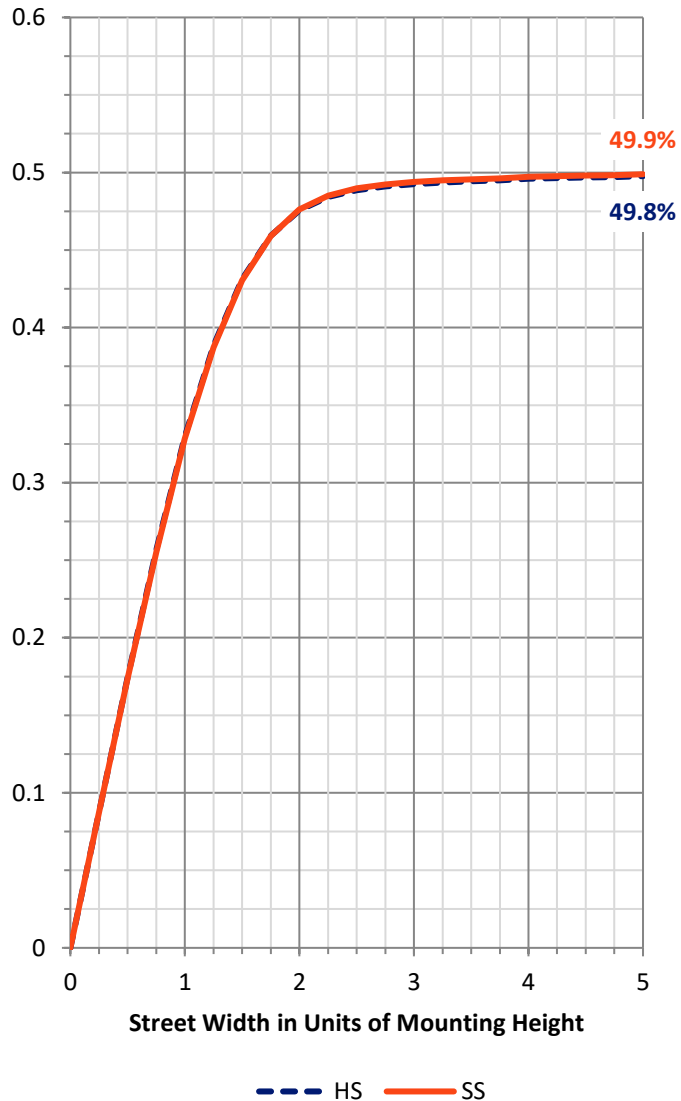
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2873.6	0.0	2873.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2873.6	0.0	2873.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5747.2	0.0	5747.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	1.0
10°-20°	198.7	3.5
20°-30°	388.7	6.8
30°-40°	661.1	11.5
40°-50°	1046.3	18.2
50°-60°	1387.4	24.1
60°-70°	1308.8	22.8
70°-80°	647.0	11.3
80°-90°	49.9	0.9
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°	5747.2	100.0
0°-180°	5747.2	100.0

**Coefficient of Utilization**

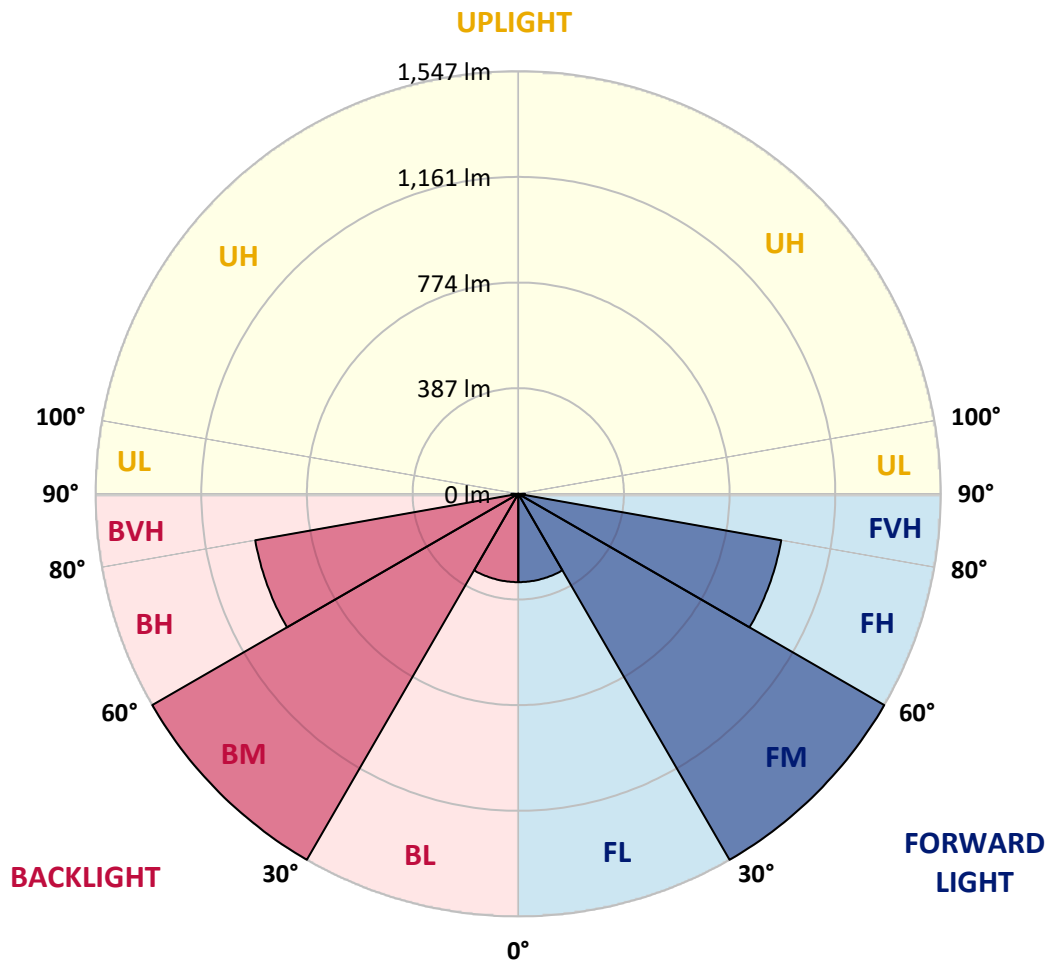


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.4	5.6			
FM (30°-60°)	1547.4	26.9			
FH (60°-80°)	977.9	17.0			G1/1800
FVH (80°-90°)	24.9	0.4			G1/100
BL (0°-30°)	323.4	5.6	B1/500		
BM (30°-60°)	1547.4	26.9	B2/2500		
BH (60°-80°)	977.9	17.0	B2/1000		G2/1000
BVH (80°-90°)	24.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	598.9	599.5	600.1	601.0	602.3	604.2	605.3	606.3	608.8	609.0	608.8
5°	596.7	597.4	598.9	601.7	605.7	611.2	615.5	620.8	624.8	627.5	626.9
7.5°	596.4	597.7	600.1	606.0	613.6	623.2	633.1	642.0	649.7	655.8	654.9
10°	601.3	602.9	606.9	615.5	627.5	641.4	655.2	668.4	679.6	687.6	690.4
12.5°	609.6	610.9	618.3	631.3	648.5	665.7	681.4	697.7	713.2	726.7	726.7
15°	624.1	626.3	635.6	654.4	675.6	695.5	711.6	728.8	745.5	760.8	765.5
17.5°	644.2	647.2	661.1	685.1	712.2	730.7	745.7	759.9	774.4	789.2	791.3
20°	671.6	674.6	693.1	722.1	754.1	776.3	786.4	789.8	796.9	811.0	812.9
22.5°	708.8	711.9	732.5	765.1	800.9	824.9	829.2	821.2	819.3	830.4	831.7
25°	751.0	753.8	777.5	812.6	849.6	875.7	874.5	854.8	843.7	850.5	852.3
27.5°	798.4	802.4	826.5	862.8	902.8	925.9	922.2	893.6	869.8	868.7	869.2
30°	859.1	863.4	886.2	921.0	960.3	981.6	973.9	935.5	898.8	886.5	886.5
32.5°	923.2	933.9	957.0	993.3	1024.1	1039.5	1027.8	981.6	932.9	915.7	914.8
35°	1006.5	1012.4	1035.2	1070.6	1093.7	1105.8	1083.2	1033.6	977.7	957.3	954.6
37.5°	1088.1	1093.1	1119.6	1153.4	1181.5	1180.8	1150.4	1095.6	1033.0	1010.2	1008.4
40°	1171.6	1176.8	1207.0	1238.2	1266.1	1263.7	1226.7	1165.4	1098.9	1073.4	1078.3
42.5°	1244.0	1249.8	1284.0	1328.4	1353.6	1352.9	1310.2	1241.2	1171.9	1149.1	1153.4
45°	1309.9	1315.1	1354.8	1405.6	1442.6	1447.2	1400.4	1327.4	1256.3	1227.0	1228.3
47.5°	1356.4	1366.2	1407.8	1466.0	1516.2	1532.5	1486.6	1415.2	1333.3	1302.8	1304.6
50°	1391.8	1397.9	1443.2	1509.4	1572.8	1606.7	1569.8	1496.5	1410.3	1377.9	1382.2
52.5°	1396.1	1403.4	1452.7	1529.1	1610.4	1661.8	1643.7	1575.9	1488.8	1455.5	1464.8
55°	1361.0	1365.3	1424.1	1516.7	1625.2	1702.8	1707.4	1649.8	1563.6	1538.4	1544.5
57.5°	1260.9	1272.0	1346.5	1459.2	1604.8	1724.6	1755.1	1717.0	1639.4	1614.4	1624.3
60°	1096.8	1107.9	1182.7	1325.5	1528.2	1714.5	1794.6	1776.3	1708.0	1688.0	1693.2
62.5°	859.4	858.5	951.1	1126.3	1375.7	1664.6	1823.8	1833.6	1775.8	1750.5	1758.5
65°	557.0	559.8	649.4	838.1	1145.8	1537.7	1830.3	1906.6	1842.2	1804.0	1809.9
66°	448.0	456.3	532.4	706.3	1028.4	1454.6	1810.8	1928.1	1862.6	1816.4	1819.1
67.5°	330.7	329.2	391.7	525.9	821.2	1296.6	1750.2	1941.7	1885.7	1827.4	1828.7
70°	188.8	188.5	210.6	288.8	482.8	913.0	1475.3	1876.7	1932.4	1867.5	1864.1
72.5°	138.0	137.0	140.1	159.5	235.5	461.0	1017.7	1640.2	1908.5	1861.0	1851.5
75°	115.8	115.2	114.6	117.0	132.1	208.7	540.1	1179.9	1656.0	1746.8	1736.9
77.5°	94.5	94.5	94.8	94.2	94.8	109.9	223.9	632.4	1008.4	1125.7	1153.1
80°	73.9	73.6	78.8	76.7	71.7	70.5	99.1	203.5	334.7	332.9	274.7
82.5°	54.5	50.8	60.1	58.5	52.9	44.9	57.9	86.8	111.7	72.7	53.9
85°	34.5	34.2	42.5	38.8	32.3	21.2	27.7	37.3	46.2	28.0	22.8
87.5°	6.2	5.9	13.5	9.9	9.9	6.2	7.7	10.2	15.1	10.5	7.7
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)