

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: P650678

Luminaire Tested: **GALN-SA1C-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650678  
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-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6172.9 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

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

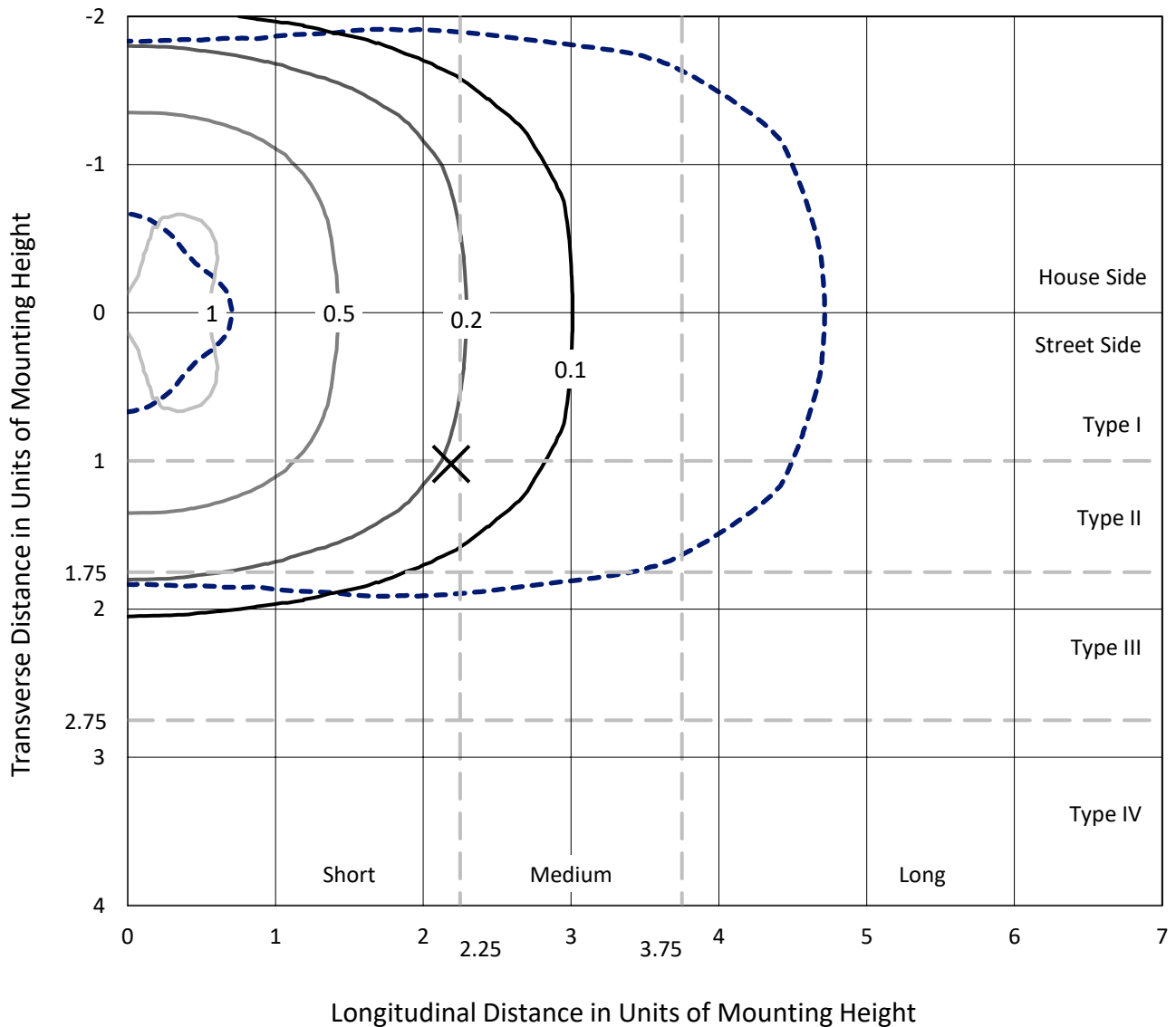




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### Iso-Footcandle Lines of Horizontal Illumination

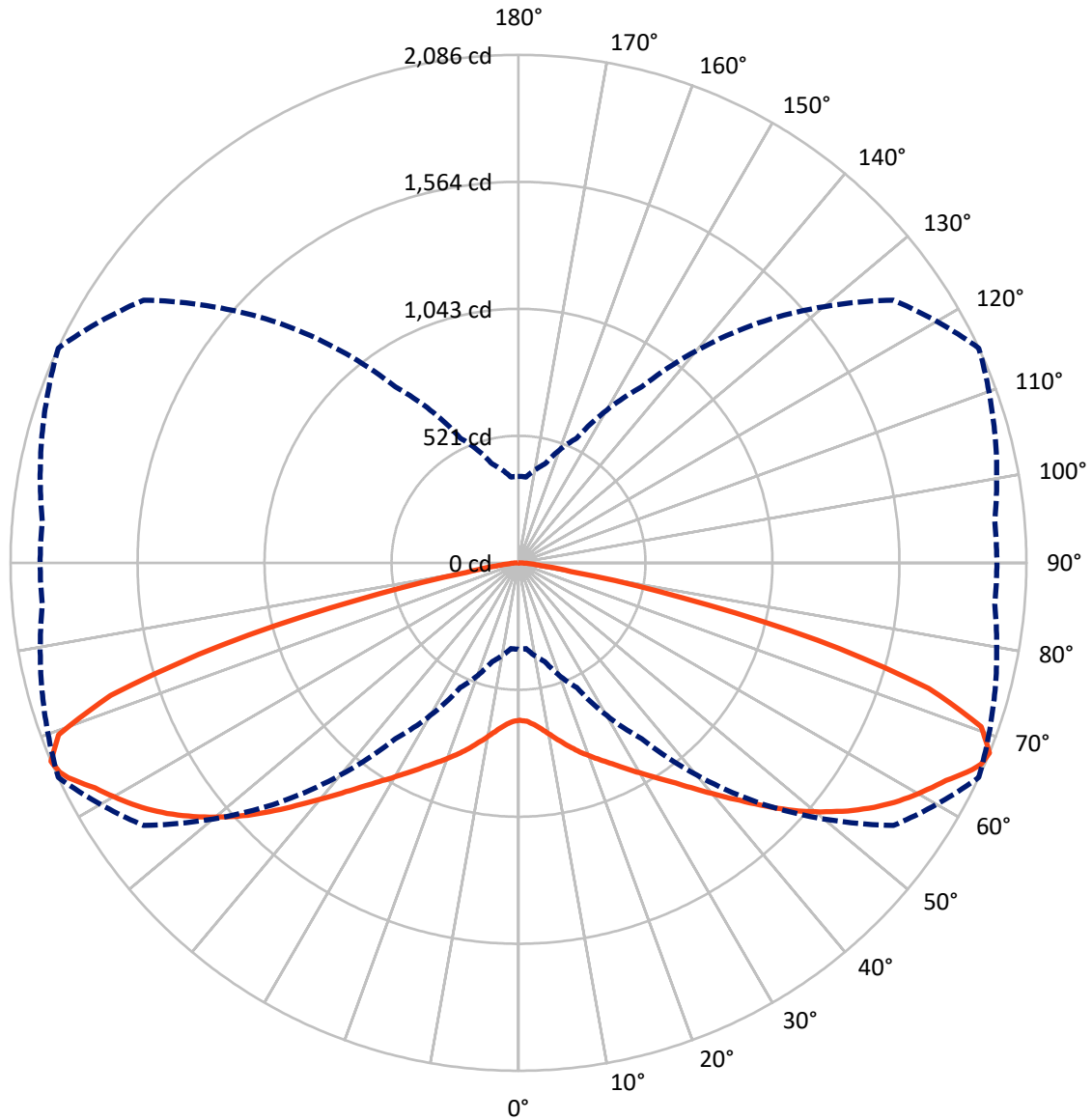
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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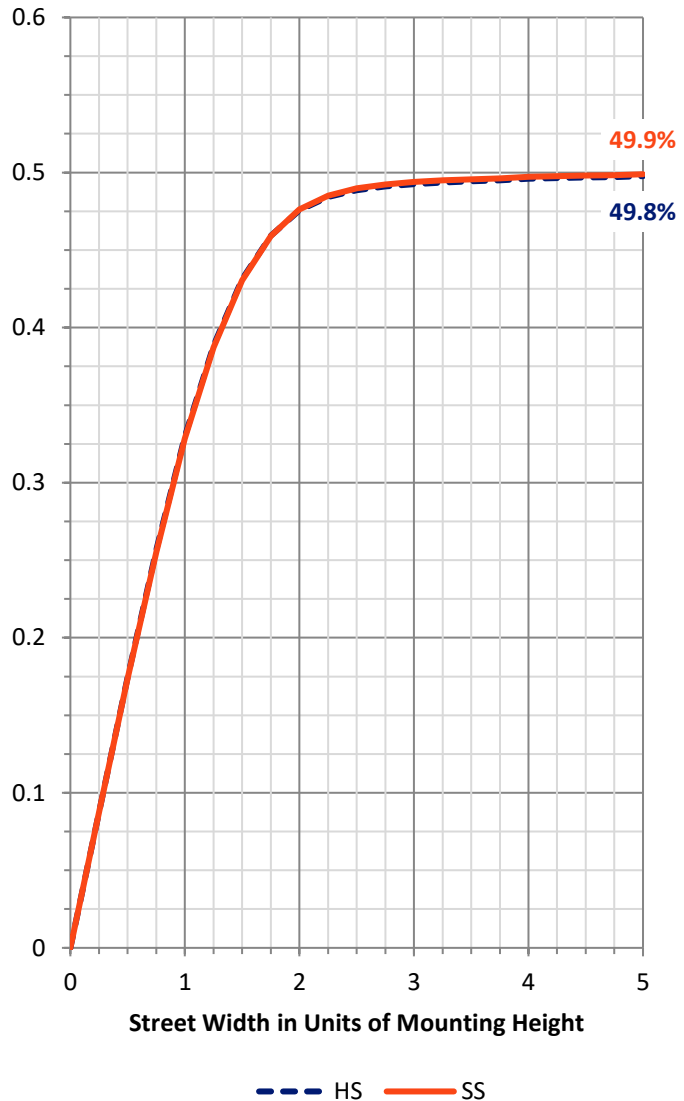
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3086.5	0.0	3086.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3086.5	0.0	3086.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6172.9	0.0	6172.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.8	1.0
10°-20°	213.4	3.5
20°-30°	417.5	6.8
30°-40°	710.1	11.5
40°-50°	1123.8	18.2
50°-60°	1490.2	24.1
60°-70°	1405.7	22.8
70°-80°	694.9	11.3
80°-90°	53.6	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°	6172.9	100.0
0°-180°	6172.9	100.0

**Coefficient of Utilization**



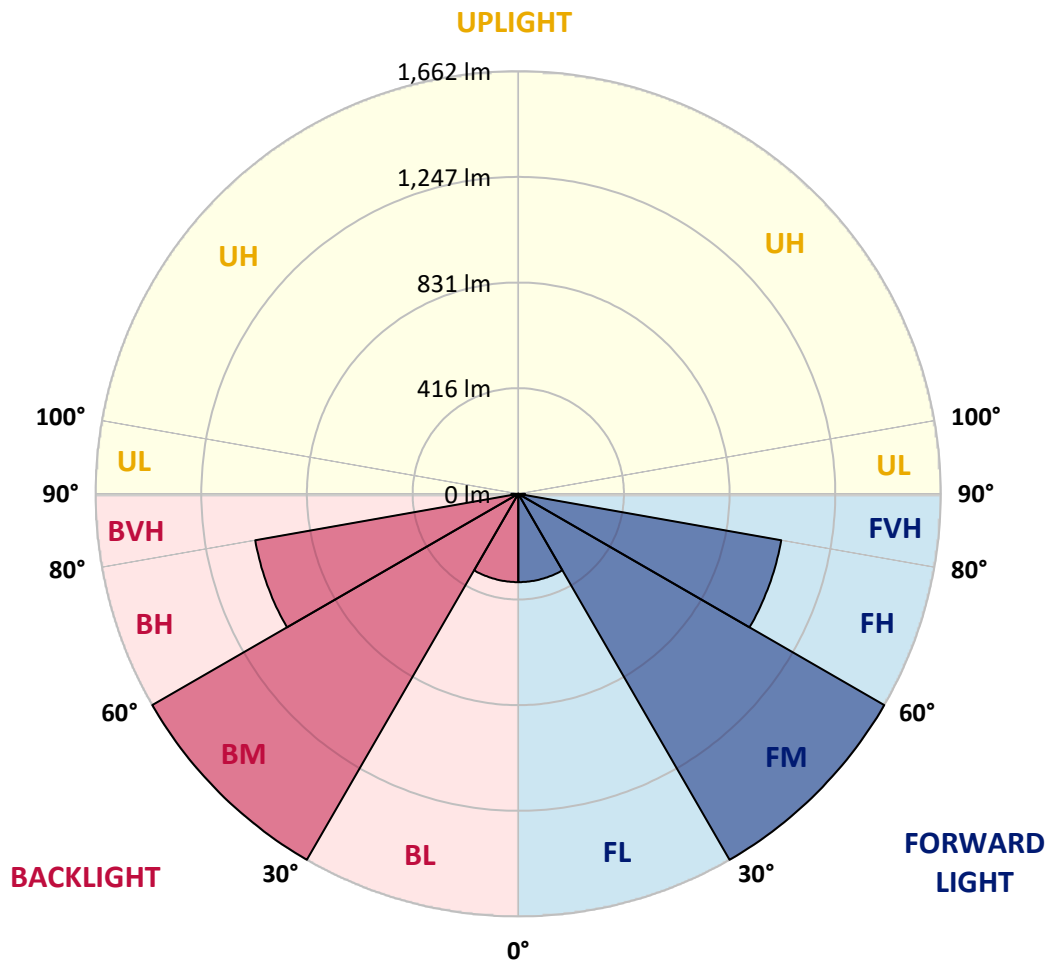
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.3	5.6			
FM (30°-60°)	1662.1	26.9			
FH (60°-80°)	1050.3	17.0			G1/1800
FVH (80°-90°)	26.8	0.4			G1/100
BL (0°-30°)	347.3	5.6	B1/500		
BM (30°-60°)	1662.1	26.9	B2/2500		
BH (60°-80°)	1050.3	17.0	B3/2500		G3/2500
BVH (80°-90°)	26.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6
2.5°	643.3	644.0	644.5	645.6	646.9	648.9	650.2	651.2	653.9	654.1	653.9
5°	640.9	641.6	643.3	646.2	650.5	656.5	661.1	666.7	671.0	674.0	673.4
7.5°	640.6	641.9	644.5	650.8	659.1	669.4	679.9	689.5	697.9	704.4	703.4
10°	645.9	647.6	651.9	661.1	674.0	688.9	703.7	718.0	729.9	738.5	741.5
12.5°	654.8	656.1	664.1	678.0	696.5	715.0	731.9	749.4	766.0	780.5	780.5
15°	670.4	672.7	682.6	702.8	725.6	747.1	764.3	782.8	800.7	817.2	822.2
17.5°	691.9	695.2	710.1	735.9	765.0	784.8	801.0	816.2	831.7	847.6	849.9
20°	721.3	724.6	744.5	775.6	810.0	833.8	844.7	848.3	855.9	871.1	873.1
22.5°	761.4	764.6	786.8	821.8	860.2	886.0	890.6	882.0	880.0	892.0	893.3
25°	806.6	809.6	835.1	872.8	912.5	940.6	939.2	918.1	906.2	913.5	915.4
27.5°	857.6	861.9	887.7	926.7	969.7	994.5	990.5	959.7	934.3	933.0	933.6
30°	922.7	927.4	951.8	989.2	1031.5	1054.4	1046.0	1004.7	965.4	952.2	952.2
32.5°	991.5	1003.1	1027.9	1066.9	1099.9	1116.5	1104.0	1054.4	1002.1	983.5	982.5
35°	1081.1	1087.4	1111.9	1149.9	1174.7	1187.7	1163.4	1110.2	1050.1	1028.2	1025.3
37.5°	1168.7	1174.0	1202.5	1238.9	1269.0	1268.3	1235.6	1176.7	1109.5	1085.1	1083.1
40°	1258.4	1264.0	1296.4	1329.9	1359.9	1357.3	1317.6	1251.7	1180.3	1152.9	1158.2
42.5°	1336.1	1342.4	1379.1	1426.8	1453.8	1453.2	1407.2	1333.2	1258.7	1234.3	1238.9
45°	1406.9	1412.5	1455.2	1509.8	1549.5	1554.4	1504.1	1425.7	1349.4	1317.9	1319.3
47.5°	1456.9	1467.4	1512.0	1574.6	1628.5	1646.0	1596.7	1520.0	1432.1	1399.3	1401.3
50°	1494.9	1501.4	1550.1	1621.2	1689.3	1725.7	1686.0	1607.3	1514.7	1480.0	1484.6
52.5°	1499.5	1507.4	1560.3	1642.4	1729.7	1784.9	1765.4	1692.6	1599.1	1563.3	1573.3
55°	1461.8	1466.5	1529.6	1629.1	1745.6	1828.9	1833.9	1772.0	1679.4	1652.3	1658.9
57.5°	1354.3	1366.2	1446.3	1567.3	1723.7	1852.4	1885.1	1844.1	1760.8	1734.0	1744.6
60°	1178.1	1189.9	1270.3	1423.7	1641.4	1841.5	1927.5	1907.9	1834.5	1813.0	1818.7
62.5°	923.1	922.1	1021.6	1209.8	1477.6	1787.9	1958.9	1969.5	1907.3	1880.1	1888.7
65°	598.3	601.2	697.5	900.2	1230.6	1651.6	1965.8	2047.8	1978.7	1937.7	1944.0
66°	481.2	490.1	571.8	758.7	1104.6	1562.3	1945.0	2071.0	2000.6	1951.0	1953.9
67.5°	355.2	353.6	420.7	564.9	882.0	1392.7	1879.8	2085.5	2025.4	1962.8	1964.2
70°	202.8	202.4	226.2	310.2	518.6	980.6	1584.5	2015.7	2075.6	2005.9	2002.2
72.5°	148.2	147.2	150.5	171.3	253.0	495.1	1093.0	1761.7	2049.9	1998.9	1988.6
75°	124.4	123.7	123.0	125.6	141.9	224.2	580.1	1267.3	1778.6	1876.2	1865.6
77.5°	101.5	101.5	101.8	101.2	101.8	118.1	240.4	679.3	1083.1	1209.1	1238.5
80°	79.4	79.1	84.7	82.3	77.0	75.8	106.5	218.6	359.5	357.5	295.0
82.5°	58.5	54.6	64.5	62.8	56.9	48.3	62.1	93.3	120.0	78.0	57.9
85°	37.0	36.8	45.7	41.6	34.7	22.8	29.8	40.0	49.6	30.1	24.5
87.5°	6.6	6.3	14.5	10.6	10.6	6.6	8.2	10.9	16.2	11.3	8.2
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)