

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: P652149

Luminaire Tested: **GALN-SA1B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4273.9 lumens  
Efficiency: N/A  
Efficacy: 97.1 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

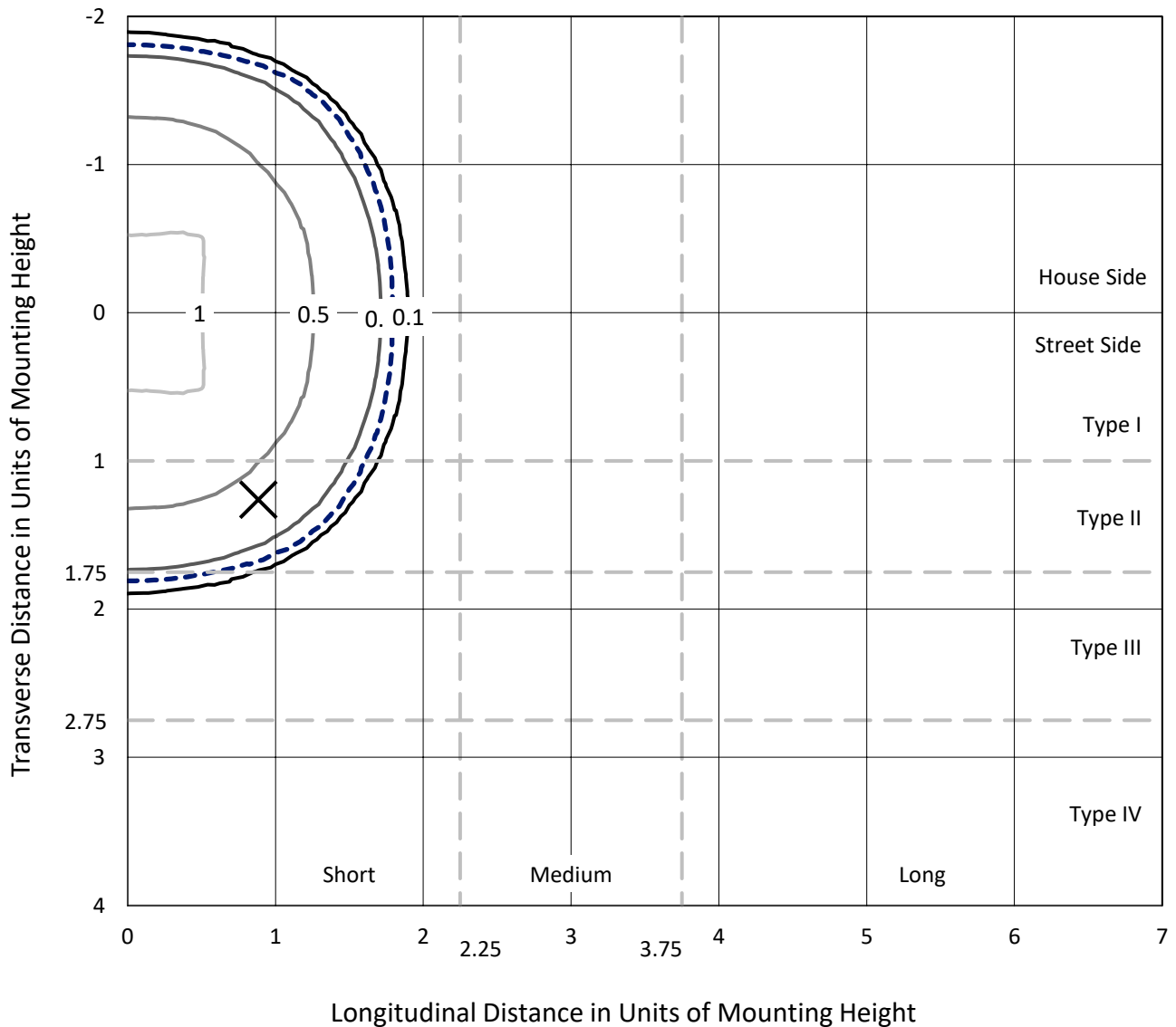
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

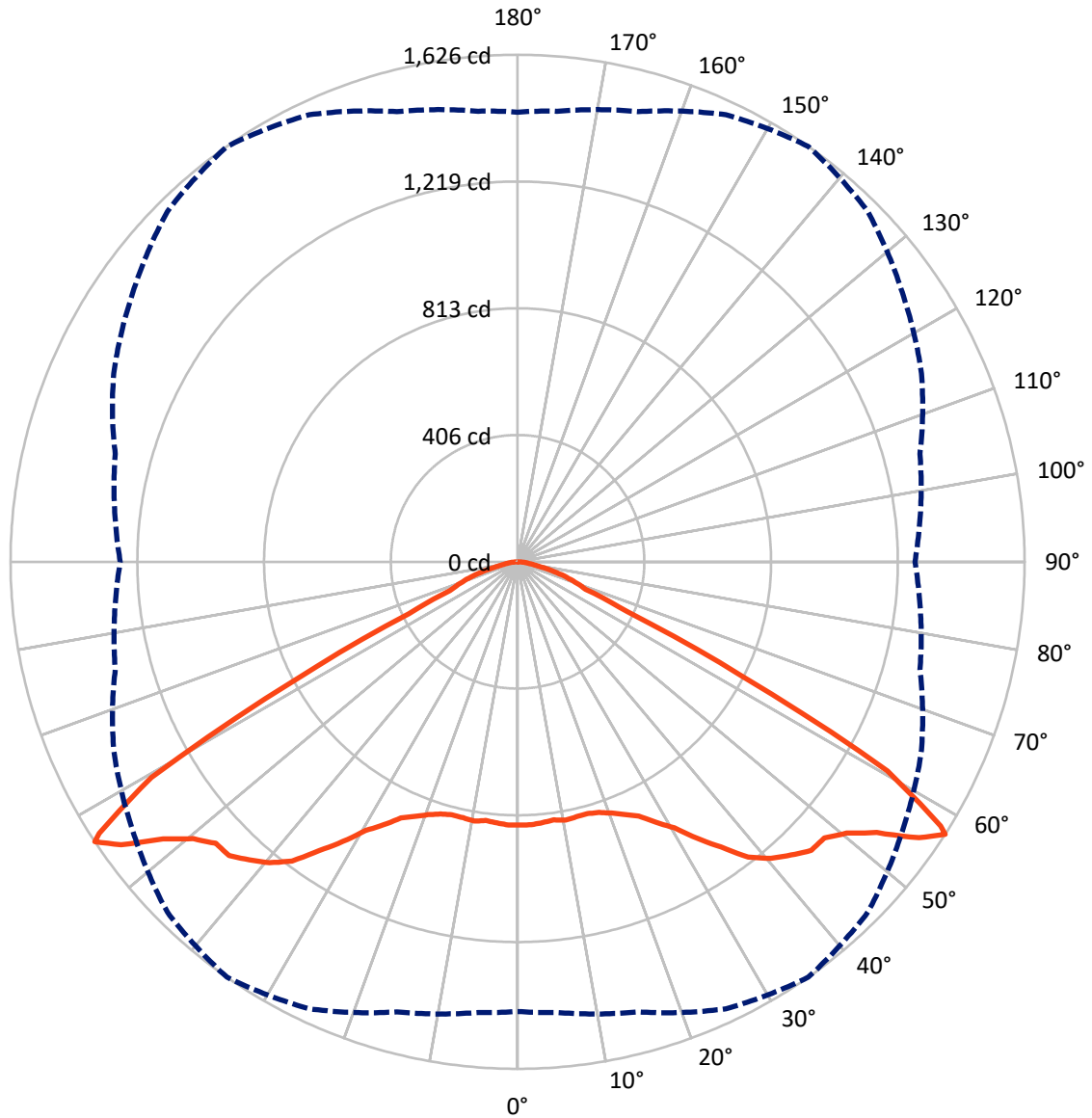
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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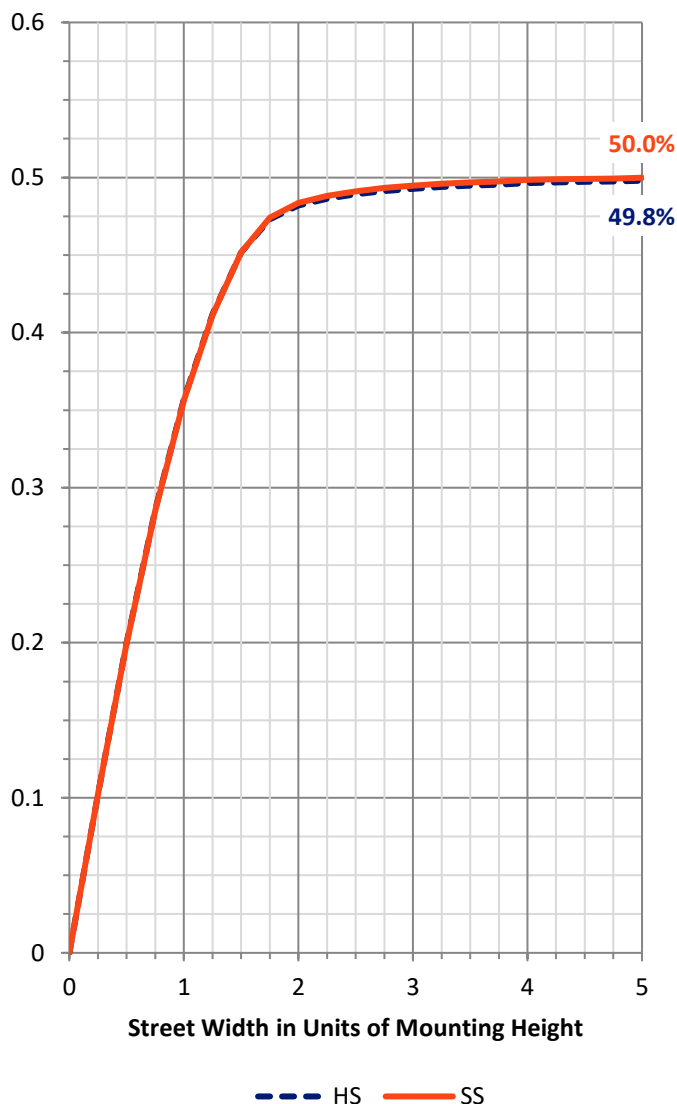
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2137.0	0.0	2137.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2137.0	0.0	2137.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4273.9	0.0	4273.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	1.9
10°-20°	237.0	5.5
20°-30°	413.9	9.7
30°-40°	678.2	15.9
40°-50°	994.4	23.3
50°-60°	1252.6	29.3
60°-70°	471.1	11.0
70°-80°	125.3	2.9
80°-90°	21.5	0.5
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°	4273.9	100.0
0°-180°	4273.9	100.0

**Coefficient of Utilization**



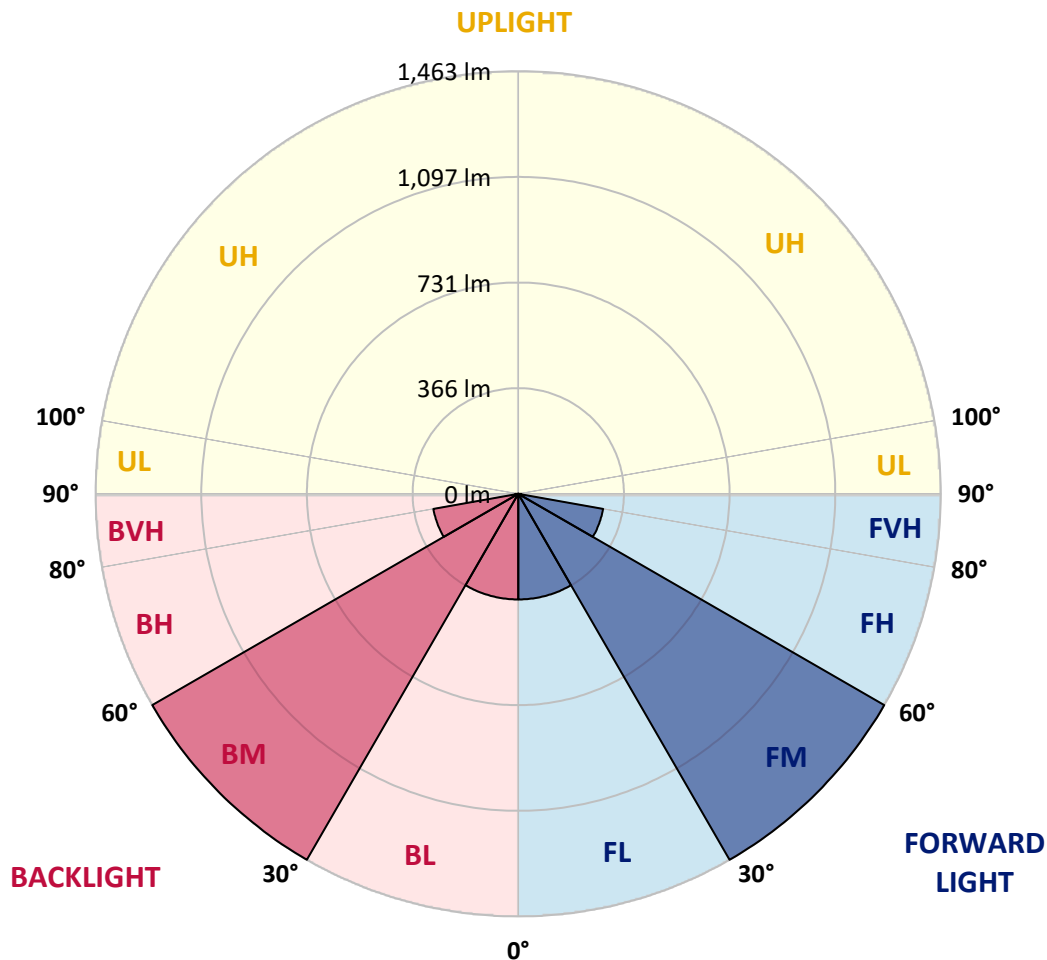
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.5	8.6			
FM (30°-60°)	1462.6	34.2			
FH (60°-80°)	298.2	7.0			G0/660
FVH (80°-90°)	10.7	0.3			G1/100
BL (0°-30°)	365.5	8.6	B1/500		
BM (30°-60°)	1462.6	34.2	B2/2500		
BH (60°-80°)	298.2	7.0	B1/500		G0/660
BVH (80°-90°)	10.7	0.3			G1/100
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°	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1
2.5°	839.8	848.3	844.6	842.5	844.1	841.4	837.2	842.0	840.9	836.7	835.1
5°	837.7	844.1	839.8	844.1	839.8	847.2	845.1	837.2	846.7	837.7	840.9
7.5°	836.2	838.3	839.3	837.2	835.6	844.6	839.8	836.2	830.9	829.3	832.0
10°	832.5	837.7	829.9	840.4	842.5	836.2	836.2	829.3	825.1	822.5	831.4
12.5°	842.0	833.0	832.0	837.2	838.8	841.4	834.1	830.4	822.5	823.5	822.0
15°	830.9	834.6	835.1	836.2	837.7	844.1	837.2	829.3	826.2	815.1	816.2
17.5°	835.1	831.4	835.1	847.2	845.1	849.8	842.5	830.4	823.0	816.7	825.1
20°	842.5	840.9	842.5	857.2	859.8	864.0	857.7	846.7	832.5	825.1	829.3
22.5°	850.4	849.3	850.4	864.6	879.9	885.2	878.8	853.0	845.6	832.0	827.2
25°	864.6	865.6	876.7	892.6	902.6	912.6	901.0	882.5	858.8	850.4	840.4
27.5°	896.2	898.9	905.2	928.3	945.7	954.6	938.3	913.1	898.3	880.9	878.3
30°	935.2	935.2	946.2	966.2	989.9	1003.6	983.6	953.6	935.7	926.2	920.4
32.5°	986.7	980.9	985.2	1020.5	1057.3	1068.9	1042.1	1005.2	976.7	964.1	959.9
35°	1031.0	1034.7	1044.2	1082.1	1123.2	1150.0	1107.8	1060.0	1031.0	1019.5	1017.3
37.5°	1088.4	1094.7	1099.4	1151.6	1201.1	1211.1	1170.5	1132.1	1096.8	1087.3	1082.1
40°	1169.5	1165.3	1166.9	1205.3	1250.1	1256.4	1216.3	1189.0	1160.0	1154.2	1154.2
42.5°	1236.4	1231.6	1236.9	1251.1	1285.3	1280.6	1258.5	1238.5	1226.3	1220.0	1226.3
45°	1276.9	1275.9	1285.3	1295.9	1320.1	1304.3	1286.9	1290.1	1278.5	1268.0	1267.5
47.5°	1321.1	1314.3	1325.9	1341.6	1323.2	1315.9	1314.8	1321.6	1318.0	1299.5	1293.8
50°	1342.7	1340.1	1358.6	1377.0	1367.0	1350.1	1353.8	1364.9	1317.4	1292.7	1278.5
52.5°	1400.7	1401.2	1436.4	1446.4	1442.2	1417.5	1425.4	1395.4	1339.5	1304.8	1306.4
55°	1491.8	1488.1	1527.6	1557.0	1561.7	1530.2	1492.3	1450.1	1380.1	1344.8	1334.3
57°	1441.7	1450.1	1493.9	1581.2	1625.5	1588.1	1505.5	1428.5	1335.3	1292.7	1273.8
57.5°	1374.9	1388.6	1464.3	1552.3	1598.7	1595.5	1489.1	1388.6	1305.3	1239.0	1240.6
60°	1007.3	1010.0	1078.4	1217.9	1362.8	1365.9	1236.4	1103.1	1010.5	938.3	948.3
62.5°	531.3	543.4	570.8	683.0	808.3	838.8	760.3	691.9	611.8	557.1	562.4
65°	281.1	279.6	292.8	324.4	385.9	401.7	391.2	337.0	309.1	300.2	300.7
67.5°	228.5	231.2	229.6	231.2	235.4	242.2	240.6	242.7	244.3	246.9	246.4
70°	193.8	193.8	194.9	195.4	195.4	198.5	202.2	209.1	209.6	212.2	213.3
72.5°	152.7	151.6	153.2	156.9	157.4	160.0	165.3	169.5	171.1	171.1	167.9
75°	103.7	104.8	106.9	110.1	113.2	117.9	122.2	124.8	125.8	124.3	122.7
77.5°	58.4	59.5	61.1	65.9	69.5	73.8	78.5	81.1	83.8	84.3	81.1
80°	34.7	34.7	37.4	41.0	45.2	49.5	53.7	56.9	57.9	57.9	56.3
82.5°	21.0	21.6	23.7	27.4	31.0	33.7	37.4	40.0	42.1	41.6	40.5
85°	11.0	11.0	13.2	16.3	18.9	21.6	21.6	20.0	18.9	16.3	15.3
87.5°	3.7	3.2	4.2	4.2	3.7	4.2	4.2	4.7	4.7	4.7	4.7
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)