

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: P452657

Luminaire Tested: **GALN-SA3C-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16147 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

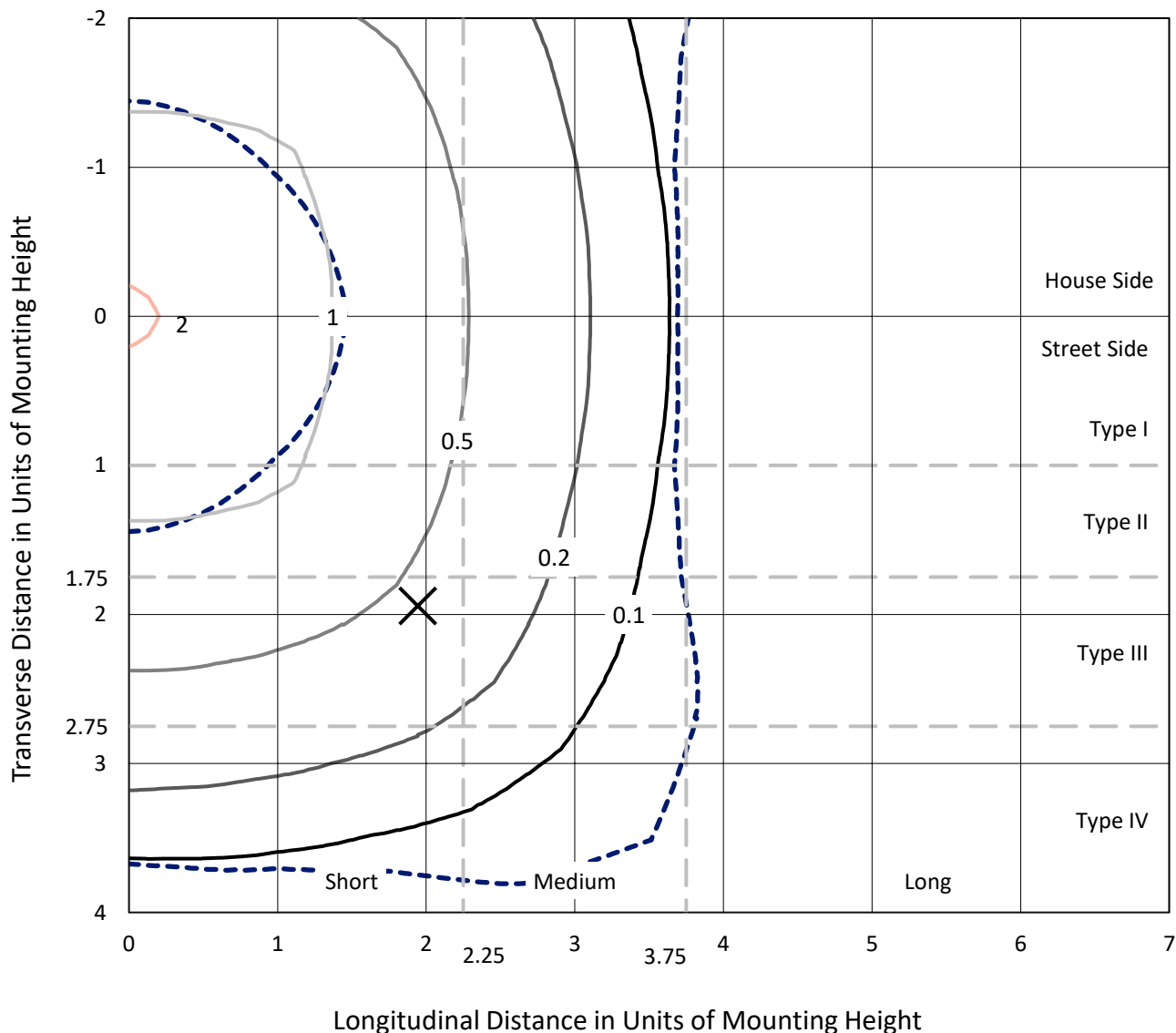
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

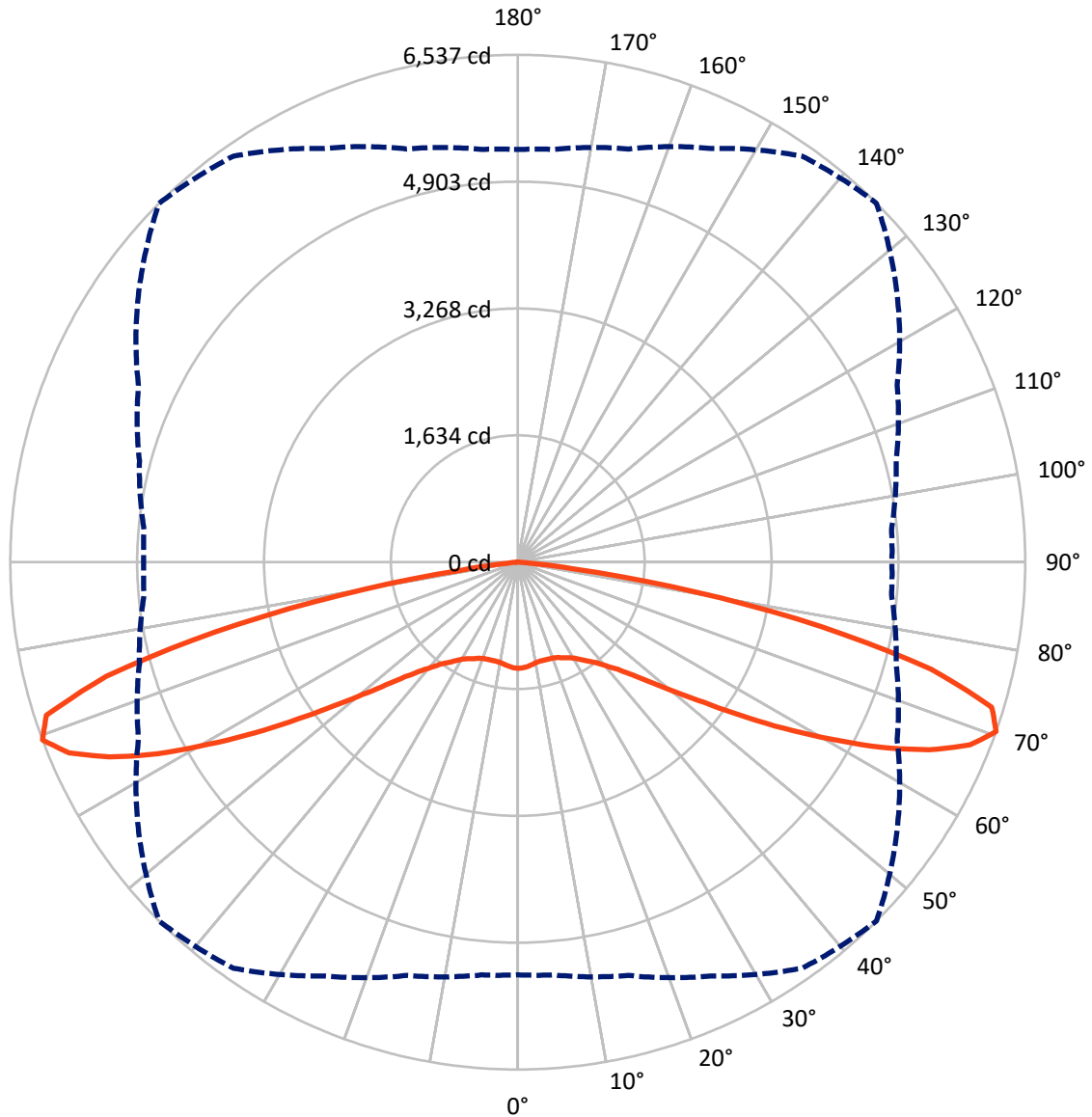
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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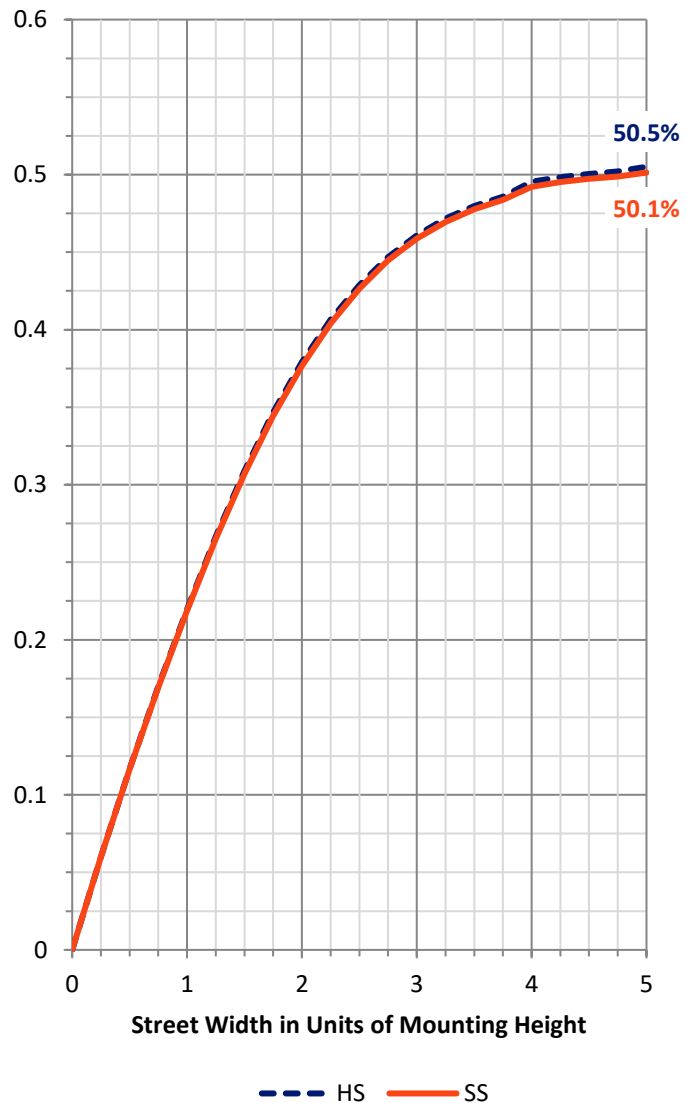
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8073.5	0.0	8073.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8073.5	0.0	8073.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16147.0	0.0	16147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	0.8
10°-20°	374.3	2.3
20°-30°	637.7	3.9
30°-40°	988.4	6.1
40°-50°	1663.6	10.3
50°-60°	3026.8	18.7
60°-70°	5124.3	31.7
70°-80°	3966.4	24.6
80°-90°	237.7	1.5
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°	16147.0	100.0
0°-180°	16147.0	100.0

**Coefficient of Utilization**



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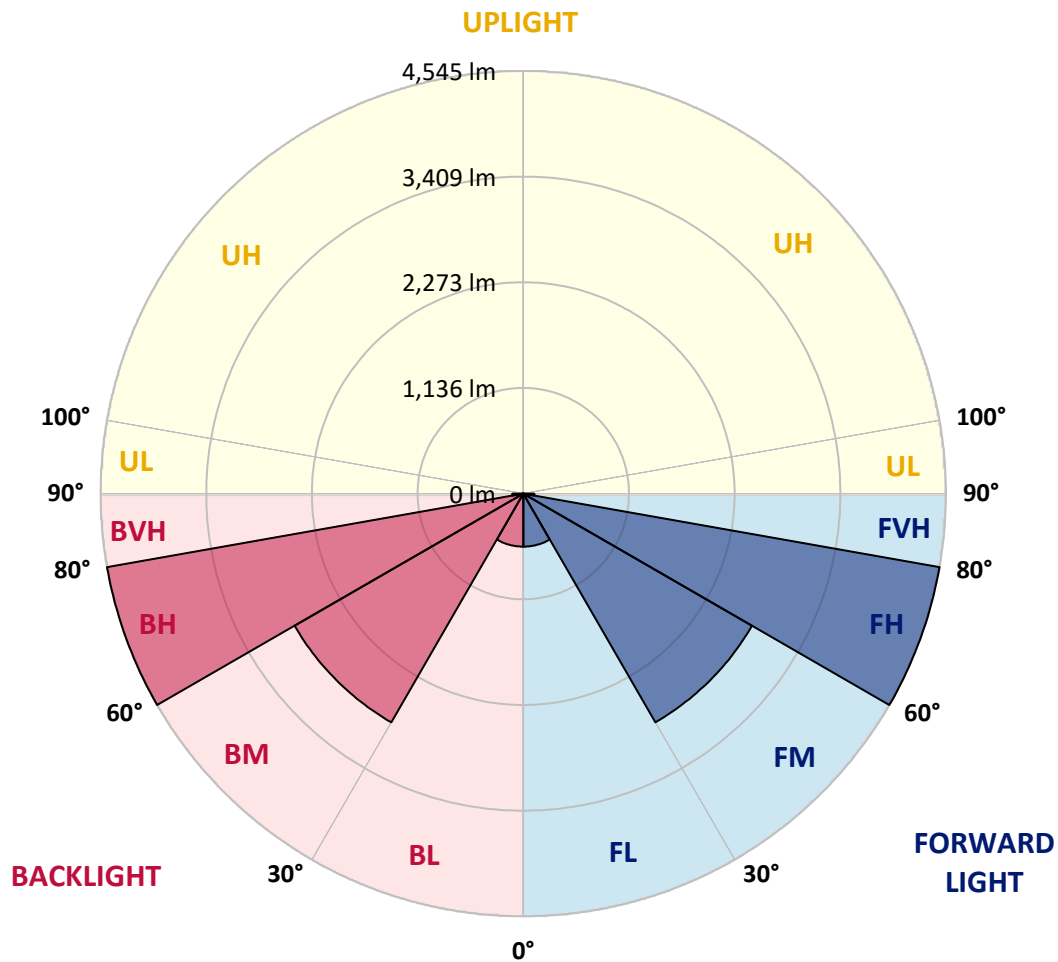
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.9	3.5			
FM	(30°-60°)	2839.4	17.6			
FH	(60°-80°)	4545.4	28.2			G2/5000
FVH	(80°-90°)	118.8	0.7			G2/225
BL	(0°-30°)	569.9	3.5	B2/1000		
BM	(30°-60°)	2839.4	17.6	B3/5000		
BH	(60°-80°)	4545.4	28.2	B4/5000		G2/5000
BVH	(80°-90°)	118.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1363.6	1364.5	1364.5	1362.8	1361.9	1361.9	1361.1	1361.1	1363.6	1364.5	1365.3
5°	1351.7	1351.7	1351.7	1350.8	1349.1	1349.1	1347.4	1347.4	1348.3	1350.8	1349.1
7.5°	1335.5	1337.2	1337.2	1333.8	1331.2	1331.2	1330.4	1331.2	1332.1	1334.6	1333.8
10°	1330.4	1331.2	1327.0	1321.0	1316.7	1314.2	1315.0	1316.7	1321.0	1322.7	1323.5
12.5°	1333.8	1333.8	1326.1	1317.6	1309.9	1306.5	1305.6	1311.6	1319.3	1324.4	1326.1
15°	1338.0	1336.3	1327.0	1315.9	1308.2	1307.3	1306.5	1310.8	1321.8	1332.1	1332.9
17.5°	1340.6	1339.8	1327.8	1314.2	1309.9	1309.9	1309.1	1312.5	1324.4	1337.2	1338.0
20°	1349.1	1346.6	1332.9	1318.4	1315.0	1316.7	1314.2	1318.4	1331.2	1346.6	1350.0
22.5°	1366.2	1363.6	1350.0	1335.5	1333.8	1333.8	1332.9	1337.2	1350.8	1367.0	1369.6
25°	1386.7	1384.1	1371.3	1361.1	1362.8	1366.2	1364.5	1365.3	1376.4	1390.1	1394.3
27.5°	1413.9	1409.7	1398.6	1390.1	1395.2	1395.2	1395.2	1394.3	1401.2	1413.9	1418.2
30°	1447.2	1445.5	1433.6	1432.7	1437.0	1432.7	1432.7	1433.6	1434.4	1446.4	1450.6
32.5°	1490.7	1487.3	1481.3	1479.6	1491.6	1495.0	1483.0	1471.9	1477.9	1489.8	1492.4
35°	1562.3	1557.2	1548.7	1539.3	1548.7	1564.9	1539.3	1530.8	1546.1	1562.3	1564.0
37.5°	1659.6	1657.0	1643.3	1626.3	1625.4	1642.5	1616.1	1615.2	1644.2	1663.8	1666.4
40°	1781.5	1784.1	1767.0	1750.8	1742.3	1755.9	1735.5	1743.1	1771.3	1793.4	1791.7
42.5°	1952.9	1943.5	1917.1	1901.7	1892.4	1887.3	1882.1	1894.1	1925.6	1949.5	1968.3
45°	2153.3	2149.9	2116.7	2097.9	2077.4	2069.7	2068.0	2089.4	2127.7	2156.7	2159.3
47.5°	2380.2	2372.5	2351.2	2331.6	2323.9	2314.5	2306.0	2322.2	2360.6	2381.0	2387.0
50°	2613.8	2615.5	2615.5	2612.1	2619.8	2621.5	2598.5	2604.5	2625.8	2624.1	2622.4
52.5°	2880.8	2890.1	2934.5	2938.8	2975.4	3000.2	2958.4	2933.6	2926.0	2879.9	2883.3
55°	3194.6	3203.1	3269.6	3336.2	3435.1	3476.9	3389.0	3312.3	3257.7	3187.8	3191.2
57.5°	3586.0	3590.3	3653.4	3781.3	3938.2	4036.3	3882.0	3730.2	3619.3	3552.8	3526.3
60°	4007.3	4011.6	4103.7	4259.7	4503.6	4623.0	4432.0	4183.8	4044.0	3942.5	3949.3
62.5°	4513.0	4530.1	4612.8	4827.7	5123.6	5257.5	5004.2	4672.5	4483.2	4357.0	4362.1
65°	5054.6	5083.6	5173.9	5410.2	5683.1	5827.2	5516.8	5133.9	4898.5	4744.1	4760.3
67.5°	5405.9	5431.5	5562.0	5822.9	6163.2	6282.6	5881.8	5435.8	5141.5	4957.3	4923.2
70°	5316.4	5337.7	5511.7	5881.8	6385.8	6536.7	5968.8	5391.4	5045.2	4832.8	4819.2
72.5°	4693.0	4648.6	4902.8	5434.1	6131.6	6384.9	5695.0	4924.1	4488.3	4270.0	4244.4
75°	3110.2	3206.5	3581.8	4207.7	5187.6	5501.4	4861.0	3953.6	3405.2	3223.6	3195.4
77.5°	1039.6	1113.8	1447.2	2385.3	3536.6	4008.2	3541.7	2585.7	1829.3	1473.6	1480.5
80°	275.5	272.0	352.2	655.8	1528.2	2321.3	1778.9	875.8	479.3	347.1	329.2
82.5°	98.9	110.9	142.4	181.6	405.1	721.5	509.1	245.6	179.9	133.0	128.8
85°	43.5	42.6	61.4	72.5	101.5	134.7	119.4	104.0	91.2	60.5	56.3
87.5°	9.4	9.4	14.5	11.1	17.9	17.9	22.2	26.4	27.3	17.9	14.5
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)