

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: P646761

Luminaire Tested: **GALN-SA2C-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7605.3 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

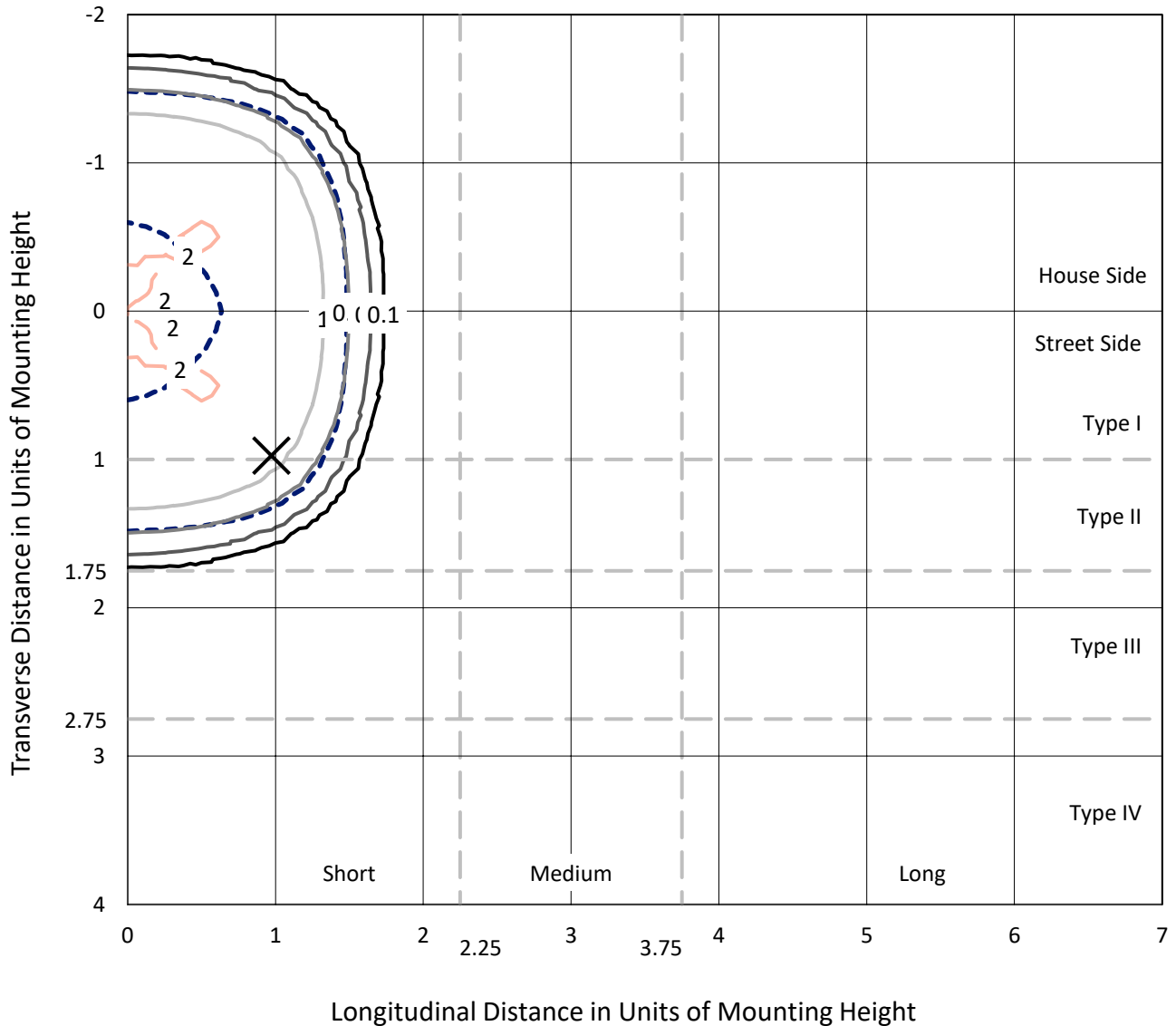
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

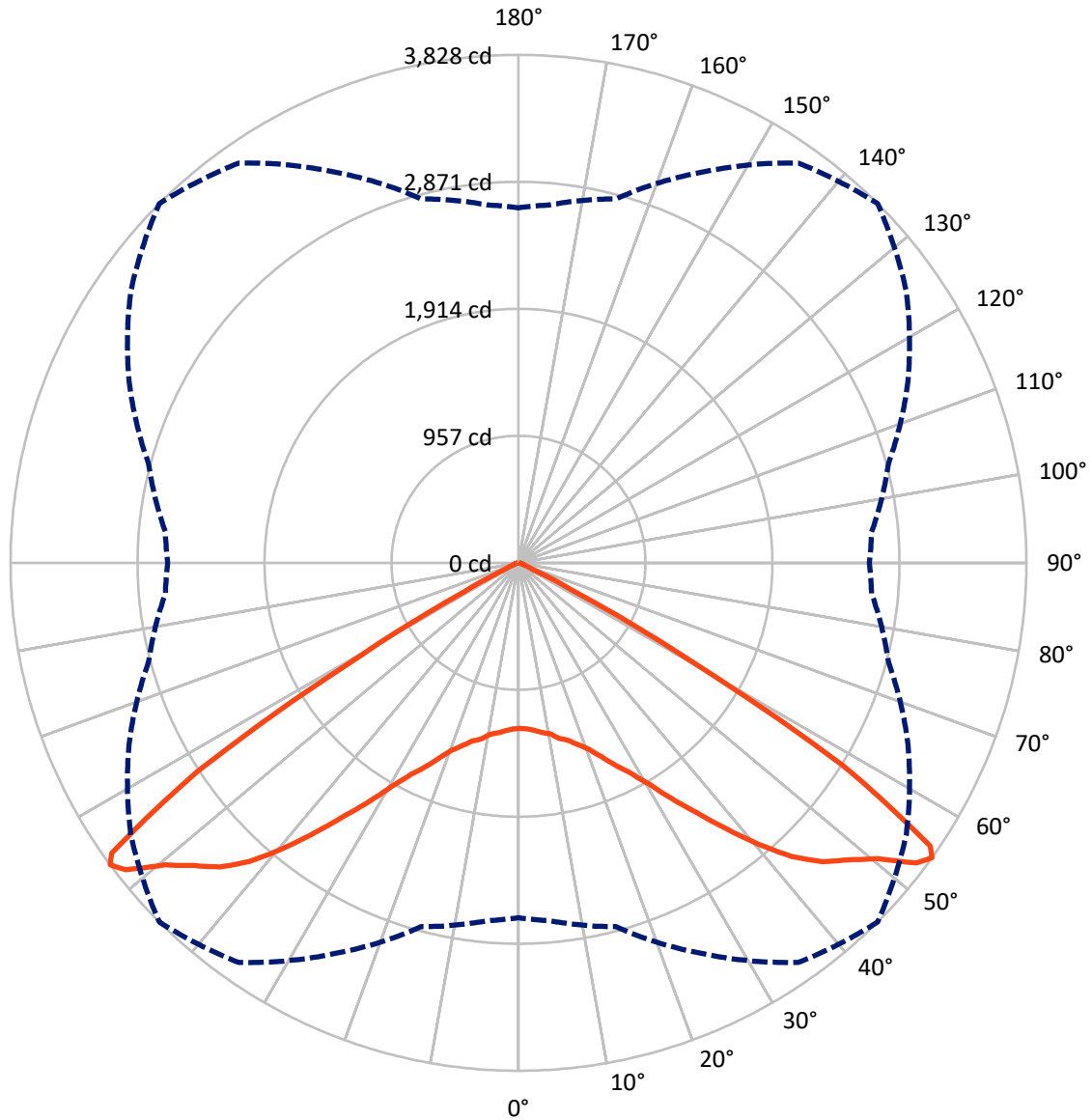
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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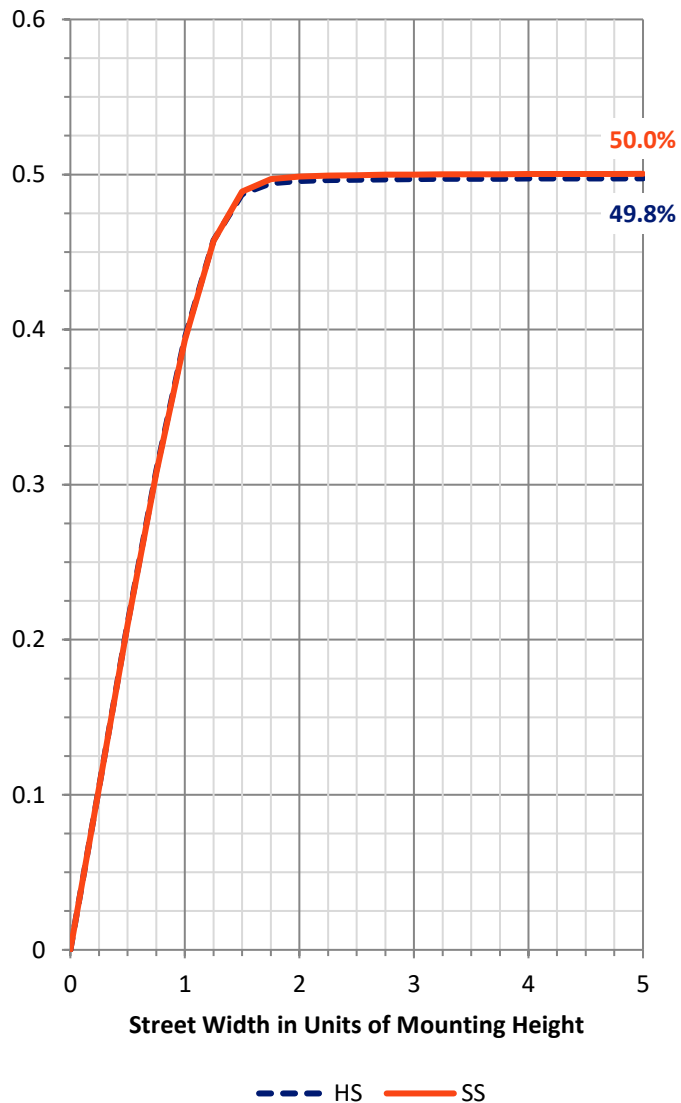
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3802.6	0.0	3802.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3802.6	0.0	3802.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7605.3	0.0	7605.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	1.6
10°-20°	395.3	5.2
20°-30°	774.7	10.2
30°-40°	1393.0	18.3
40°-50°	2384.6	31.4
50°-60°	2307.4	30.3
60°-70°	197.5	2.6
70°-80°	23.4	0.3
80°-90°	7.3	0.1
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°	7605.3	100.0
0°-180°	7605.3	100.0

**Coefficient of Utilization**



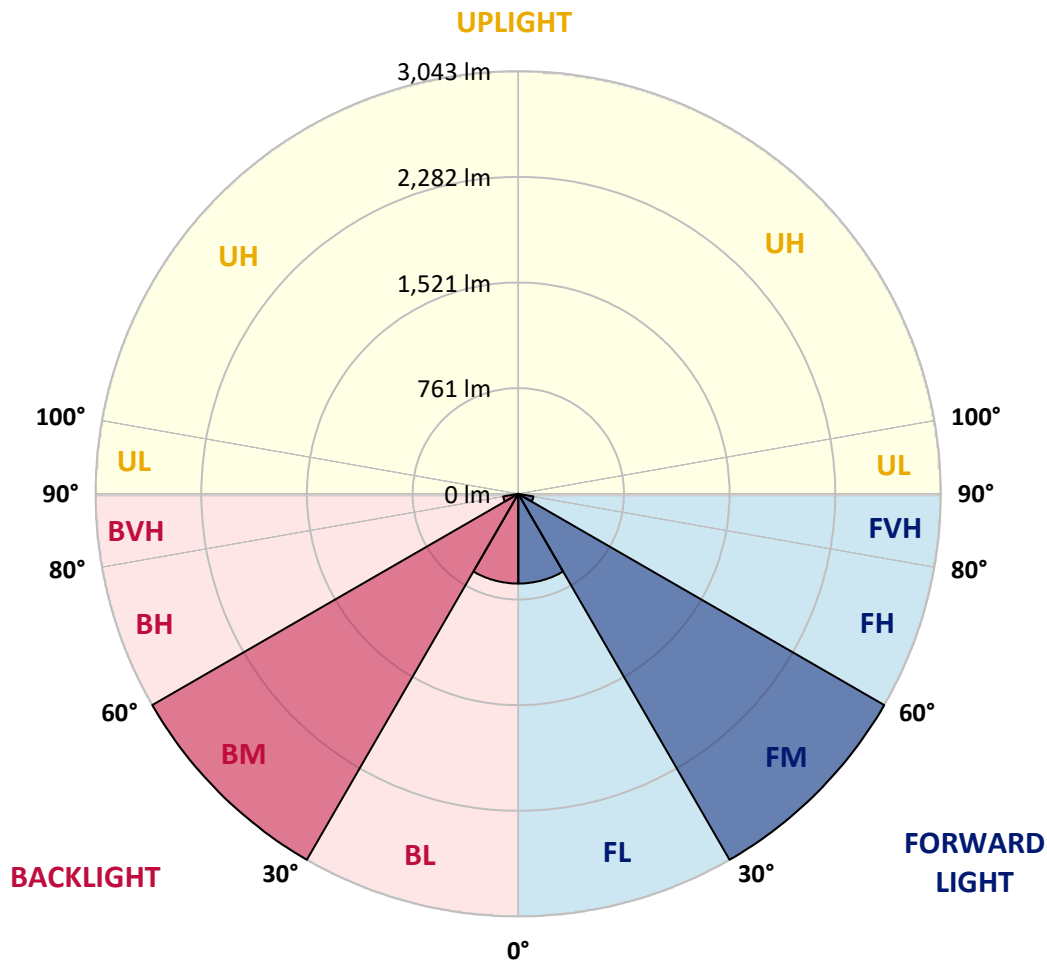
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.0	8.5			
FM (30°-60°)	3042.5	40.0			
FH (60°-80°)	110.5	1.5			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	646.0	8.5	B2/1000		
BM (30°-60°)	3042.5	40.0	B3/5000		
BH (60°-80°)	110.5	1.5	B1/500		G0/660
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1247.0	1247.0	1247.0	1247.0	1247.0	1247.0	1247.0	1247.0	1247.0	1247.0	1247.0
2.5°	1253.0	1260.3	1255.5	1259.1	1259.1	1253.0	1256.6	1242.2	1251.9	1244.7	1245.8
5°	1272.3	1271.1	1271.1	1272.3	1267.5	1269.9	1265.1	1260.3	1256.6	1251.9	1266.3
7.5°	1296.4	1296.4	1288.0	1290.4	1288.0	1291.6	1282.0	1272.3	1268.7	1265.1	1262.7
10°	1319.4	1316.9	1313.3	1324.1	1315.7	1310.9	1306.0	1300.0	1286.8	1282.0	1277.2
12.5°	1353.0	1351.8	1347.0	1357.9	1353.0	1357.9	1339.8	1324.1	1321.7	1306.0	1314.5
15°	1392.8	1403.7	1395.2	1395.2	1392.8	1386.8	1379.6	1372.4	1350.7	1344.6	1345.8
17.5°	1444.6	1441.0	1442.2	1442.2	1454.3	1438.6	1424.1	1406.0	1395.2	1391.6	1379.6
20°	1494.0	1498.8	1497.6	1506.1	1513.3	1496.5	1480.8	1478.4	1448.2	1453.1	1436.2
22.5°	1580.8	1577.2	1583.1	1589.2	1584.4	1582.0	1567.5	1549.5	1522.9	1510.9	1508.4
25°	1672.3	1666.3	1655.5	1669.9	1677.2	1688.0	1660.3	1650.6	1609.7	1591.6	1592.9
27.5°	1750.6	1759.1	1771.1	1777.2	1795.3	1791.7	1772.3	1741.0	1709.7	1689.2	1675.9
30°	1857.9	1862.7	1883.2	1891.6	1923.0	1931.4	1901.3	1865.1	1809.7	1783.2	1767.5
32.5°	1956.7	1990.5	1989.2	2031.4	2082.0	2116.9	2062.7	2007.3	1951.9	1920.5	1892.8
35°	2116.9	2110.9	2145.9	2190.4	2272.3	2312.1	2253.1	2189.2	2104.9	2054.3	2032.6
37.5°	2266.3	2268.7	2315.7	2386.8	2480.8	2542.2	2490.4	2385.6	2298.9	2233.8	2203.7
40°	2483.2	2488.1	2536.2	2616.9	2723.0	2789.3	2729.0	2623.0	2507.3	2456.7	2456.7
42.5°	2737.4	2757.9	2789.3	2859.1	2954.3	3027.8	2973.6	2890.4	2773.6	2708.6	2718.2
45°	2998.9	3008.5	3029.0	3132.6	3177.2	3213.4	3162.8	3124.2	3045.9	2966.4	2953.1
47.5°	3243.5	3247.1	3307.3	3339.9	3374.8	3344.7	3377.2	3326.7	3238.6	3161.5	3145.9
50°	3351.9	3345.9	3431.4	3530.2	3556.8	3503.8	3476.1	3442.3	3308.6	3215.8	3174.8
52.5°	3036.2	3071.2	3230.2	3504.9	3712.2	3756.8	3595.3	3439.9	3190.5	3009.8	2982.1
54°	2674.8	2707.3	2838.6	3245.9	3677.2	3827.9	3567.6	3237.5	2885.7	2671.2	2643.5
55°	2317.0	2280.8	2519.4	2935.0	3513.4	3765.2	3458.0	2976.0	2573.6	2377.2	2338.7
57.5°	1254.3	1260.3	1461.5	1854.3	2468.7	2886.8	2549.4	2013.3	1520.5	1300.0	1280.8
60°	397.6	407.2	495.2	749.4	1179.6	1408.5	1207.2	808.4	559.1	448.2	430.1
62.5°	124.1	128.9	140.9	209.6	322.9	461.4	361.4	216.9	161.5	148.2	150.6
65°	75.9	75.9	77.1	81.9	96.4	112.0	108.4	95.2	91.5	89.2	87.9
67.5°	49.4	48.2	50.6	54.2	56.6	57.9	61.5	65.1	63.9	61.5	61.5
70°	30.1	28.9	31.3	36.2	37.3	39.8	43.4	48.2	47.0	44.6	45.8
72.5°	16.8	16.8	18.1	21.7	25.3	27.7	31.3	34.9	36.2	34.9	34.9
75°	6.0	7.2	9.6	13.2	15.7	19.3	22.9	26.5	30.1	27.7	26.5
77.5°	2.4	2.4	4.9	8.5	12.1	15.7	21.7	25.3	27.7	25.3	22.9
80°	1.2	1.2	3.6	7.2	10.8	14.5	18.1	21.7	22.9	20.5	18.1
82.5°	1.2	1.2	3.6	7.2	10.8	13.2	19.3	21.7	24.1	21.7	18.1
85°	0.0	1.2	3.6	7.2	9.6	10.8	10.8	7.2	6.0	3.6	3.6
87.5°	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)