

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: P646763

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11553.2 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

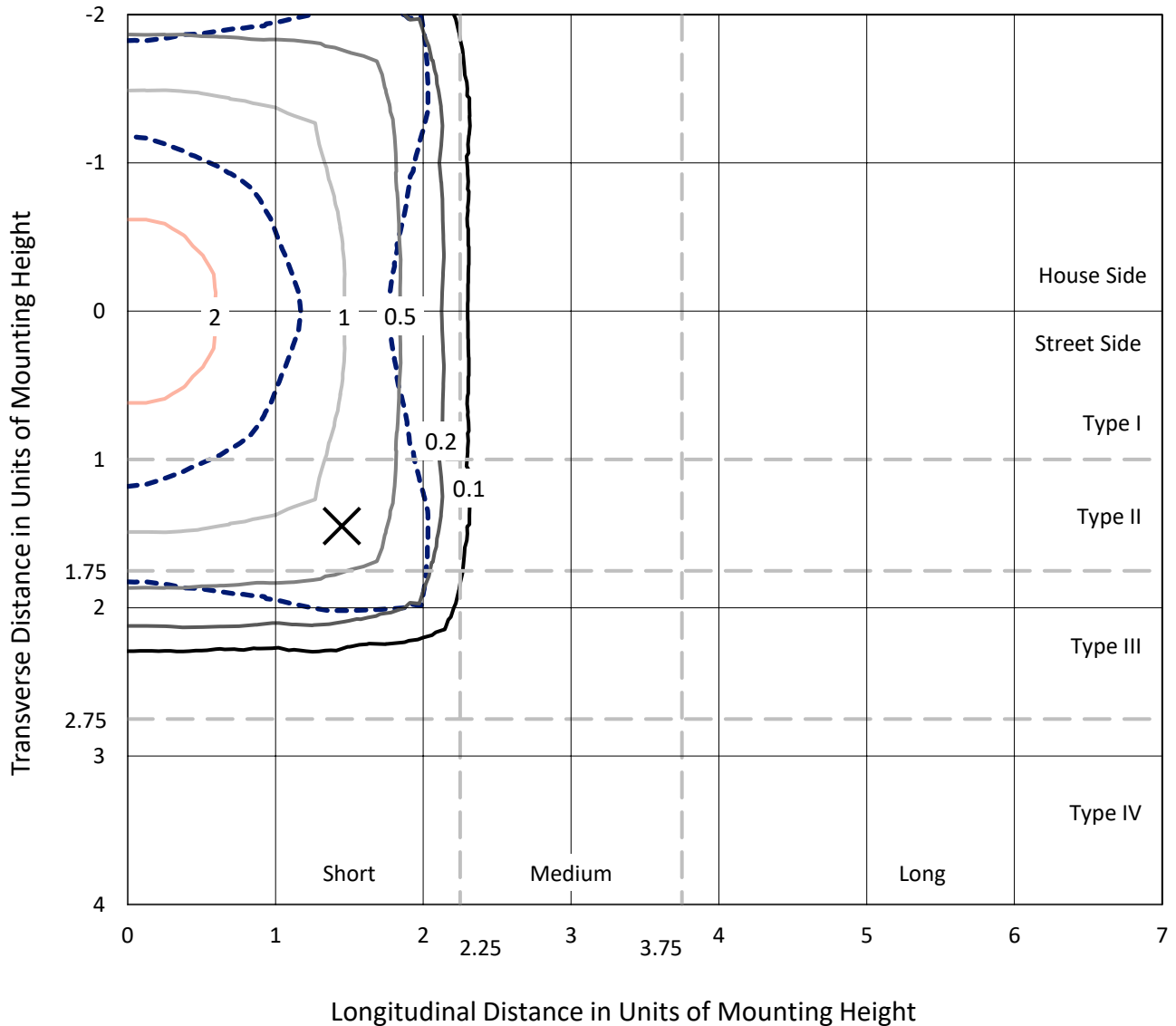
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

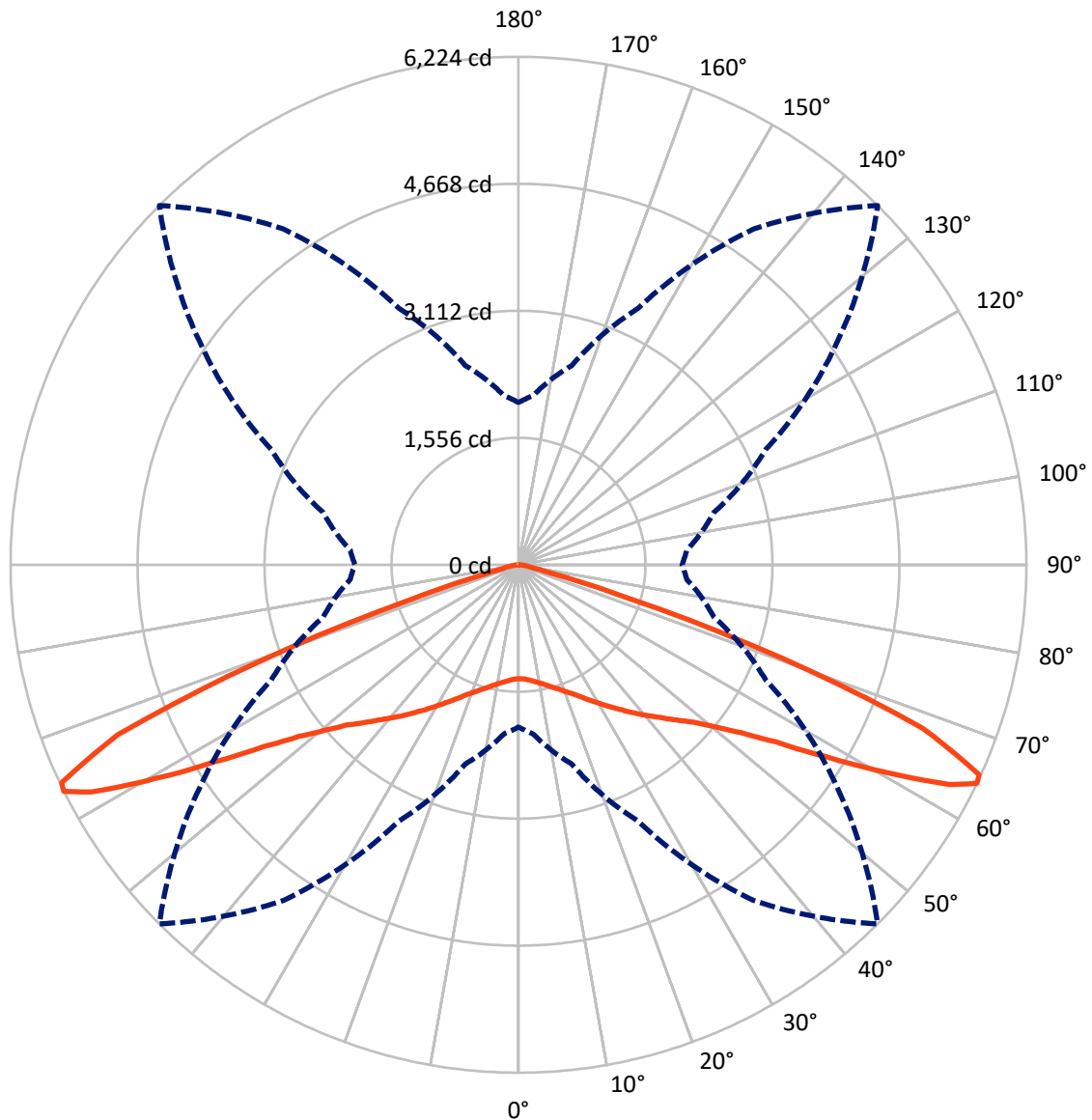
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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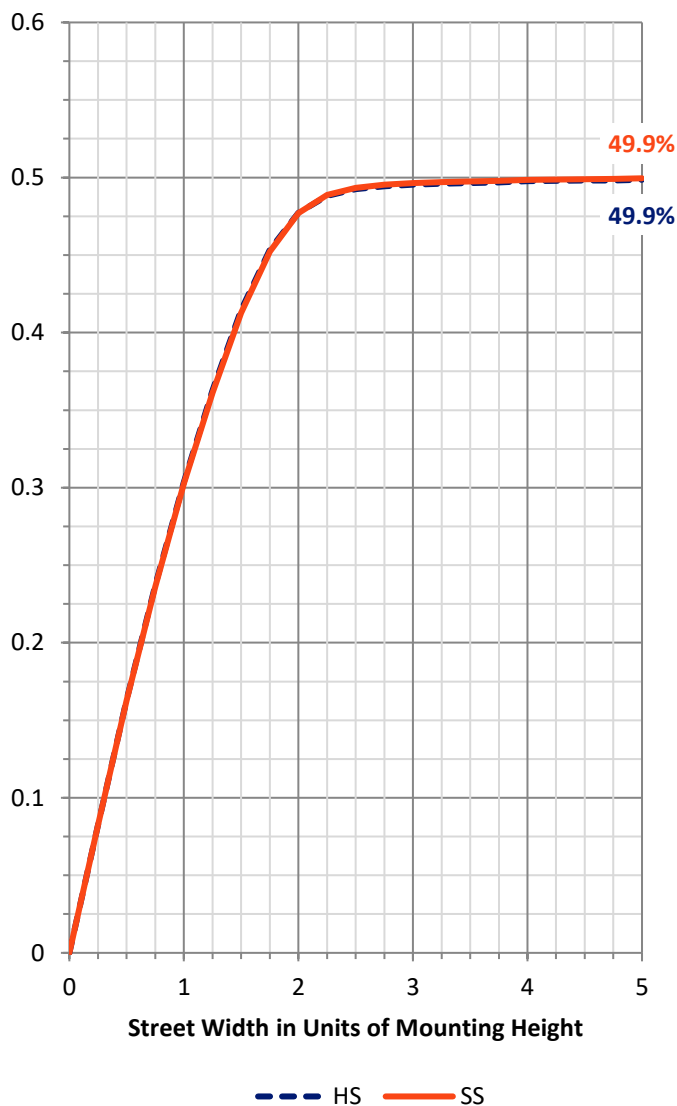
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5776.6	0.0	5776.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5776.6	0.0	5776.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11553.2	0.0	11553.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.2	1.2
10°-20°	442.5	3.8
20°-30°	836.2	7.2
30°-40°	1384.9	12.0
40°-50°	2162.0	18.7
50°-60°	3342.4	28.9
60°-70°	2882.1	24.9
70°-80°	326.6	2.8
80°-90°	39.1	0.3
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°	11553.2	100.0
0°-180°	11553.2	100.0

**Coefficient of Utilization**



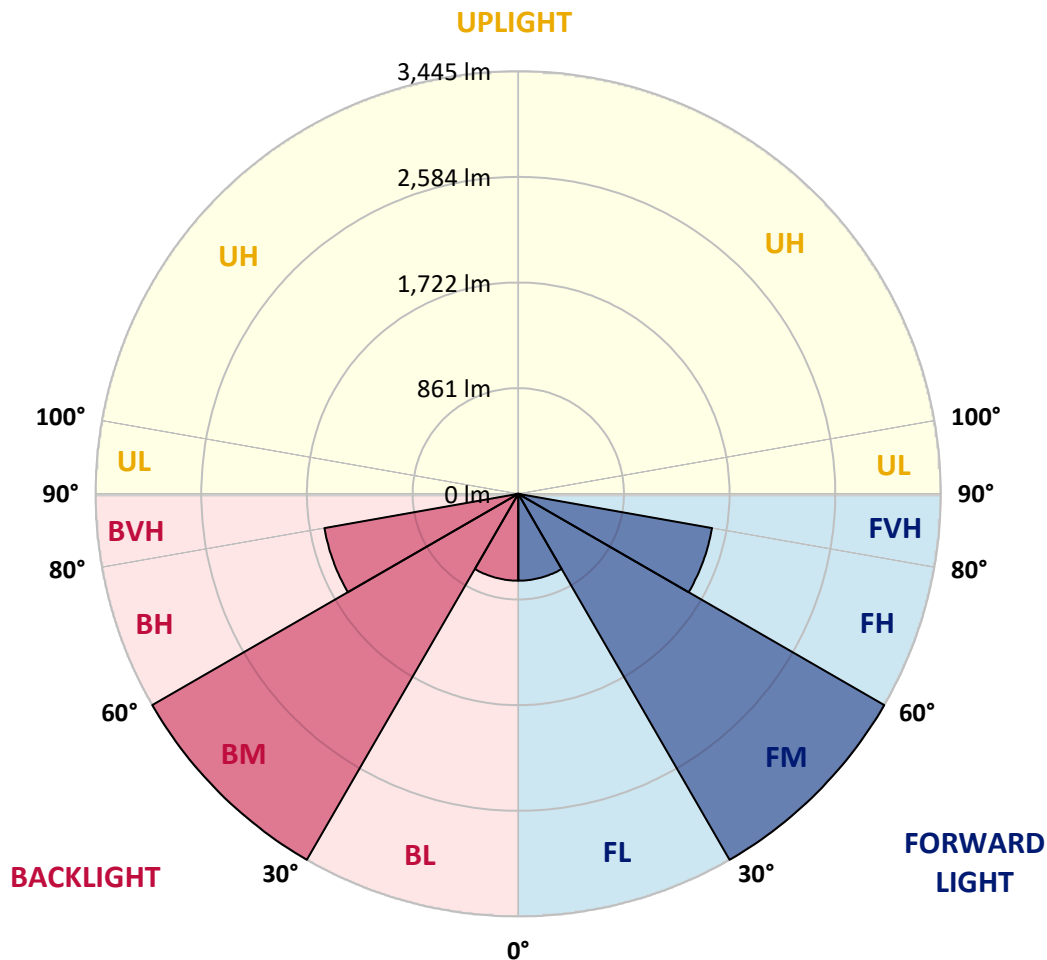
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.0	6.1			
FM (30°-60°)	3444.7	29.8			
FH (60°-80°)	1604.4	13.9			G1/1800
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	708.0	6.1	B2/1000		
BM (30°-60°)	3444.7	29.8	B3/5000		
BH (60°-80°)	1604.4	13.9	B3/2500		G1/1800
BVH (80°-90°)	19.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4
2.5°	1401.9	1404.9	1402.5	1401.9	1401.3	1401.3	1401.3	1401.9	1404.3	1406.2	1404.9
5°	1419.7	1422.1	1420.8	1420.3	1419.7	1420.3	1419.0	1418.4	1420.3	1420.3	1419.7
7.5°	1441.7	1444.7	1443.5	1444.7	1445.3	1446.0	1442.9	1440.5	1439.9	1441.7	1440.5
10°	1471.6	1474.1	1474.7	1475.3	1476.6	1476.0	1472.3	1468.0	1467.3	1466.8	1466.2
12.5°	1505.3	1507.1	1507.7	1510.2	1512.1	1512.7	1508.4	1504.7	1498.6	1499.8	1497.3
15°	1543.3	1546.9	1546.3	1549.9	1554.9	1556.1	1551.8	1545.7	1540.2	1537.1	1535.3
17.5°	1589.7	1592.2	1591.0	1594.7	1600.8	1603.8	1600.1	1592.2	1586.7	1579.9	1576.3
20°	1644.8	1649.2	1650.3	1650.3	1655.8	1658.9	1653.4	1651.0	1642.4	1637.5	1634.4
22.5°	1707.3	1709.1	1712.7	1716.4	1721.9	1720.7	1718.8	1715.2	1707.3	1702.9	1698.1
25°	1777.6	1779.4	1788.6	1796.6	1798.4	1797.2	1794.7	1792.9	1785.6	1775.8	1772.1
27.5°	1859.6	1863.3	1875.5	1882.9	1882.9	1883.5	1878.6	1884.7	1868.8	1857.2	1855.9
30°	1962.4	1964.9	1975.3	1982.6	1979.0	1975.9	1974.6	1980.8	1963.6	1942.9	1937.9
32.5°	2064.0	2072.6	2081.8	2097.7	2084.8	2079.3	2078.1	2082.4	2062.7	2039.5	2032.8
35°	2172.9	2179.0	2196.2	2209.6	2198.0	2185.1	2190.7	2204.1	2180.9	2149.6	2148.5
37.5°	2293.5	2299.0	2321.0	2335.1	2326.5	2304.4	2313.7	2329.6	2306.3	2267.8	2259.8
40°	2418.9	2430.5	2458.1	2472.8	2458.7	2429.3	2446.4	2463.6	2442.8	2398.1	2380.3
42.5°	2559.6	2578.0	2617.8	2625.1	2598.2	2558.5	2588.4	2615.9	2601.3	2549.8	2543.1
45°	2724.3	2735.3	2784.2	2800.2	2762.8	2713.3	2750.6	2800.7	2789.8	2730.4	2717.6
47.5°	2908.5	2918.9	2969.6	2993.5	2946.4	2879.7	2947.0	3012.4	3005.7	2942.1	2936.0
50°	3126.3	3128.7	3199.1	3226.0	3178.9	3121.4	3181.3	3262.8	3235.8	3154.4	3153.2
52.5°	3364.9	3368.0	3456.7	3508.7	3482.4	3417.6	3488.5	3538.1	3469.6	3363.1	3355.2
55°	3571.7	3587.1	3708.2	3846.5	3882.6	3835.5	3856.9	3833.6	3664.8	3515.4	3492.2
57.5°	3656.2	3686.2	3870.4	4128.6	4363.6	4433.3	4268.1	4046.6	3742.5	3531.4	3508.7
60°	3450.0	3482.4	3768.2	4258.3	4858.0	5160.9	4696.4	4082.7	3565.6	3268.9	3233.4
62.5°	2762.8	2772.0	3192.4	3953.0	5146.2	5930.7	4877.0	3774.9	3051.0	2647.8	2633.7
64°	1988.1	2082.4	2527.8	3465.9	5020.2	6223.8	4772.9	3343.5	2478.3	2070.1	2004.0
65°	1487.0	1512.7	2037.7	2959.8	4798.1	6201.8	4571.0	2931.1	2052.4	1584.2	1510.8
67.5°	561.7	564.8	752.1	1475.3	3415.7	5335.9	3488.5	1594.7	864.7	625.4	602.8
70°	233.2	237.4	276.0	496.3	1468.0	3426.1	1682.2	575.2	316.3	256.4	252.8
72.5°	170.7	173.2	184.8	220.3	451.6	1406.8	553.2	244.1	185.4	165.8	164.0
75°	134.0	135.2	143.8	162.2	210.5	389.8	230.0	167.6	141.3	127.3	126.1
77.5°	102.2	105.2	111.3	123.6	141.3	184.8	152.4	125.4	108.9	97.3	95.4
80°	70.4	74.1	85.7	90.6	94.8	120.0	104.1	94.8	85.0	71.0	66.7
82.5°	43.5	45.9	57.6	61.8	60.0	67.3	66.7	67.9	60.6	44.1	41.0
85°	22.6	23.9	31.2	32.4	30.0	27.6	34.3	39.8	37.3	25.1	24.5
87.5°	4.9	5.5	6.7	6.1	6.7	6.7	8.5	12.8	13.5	8.5	8.0
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)