

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: P647871

Luminaire Tested: **GALN-SA4A-835-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9154.1 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

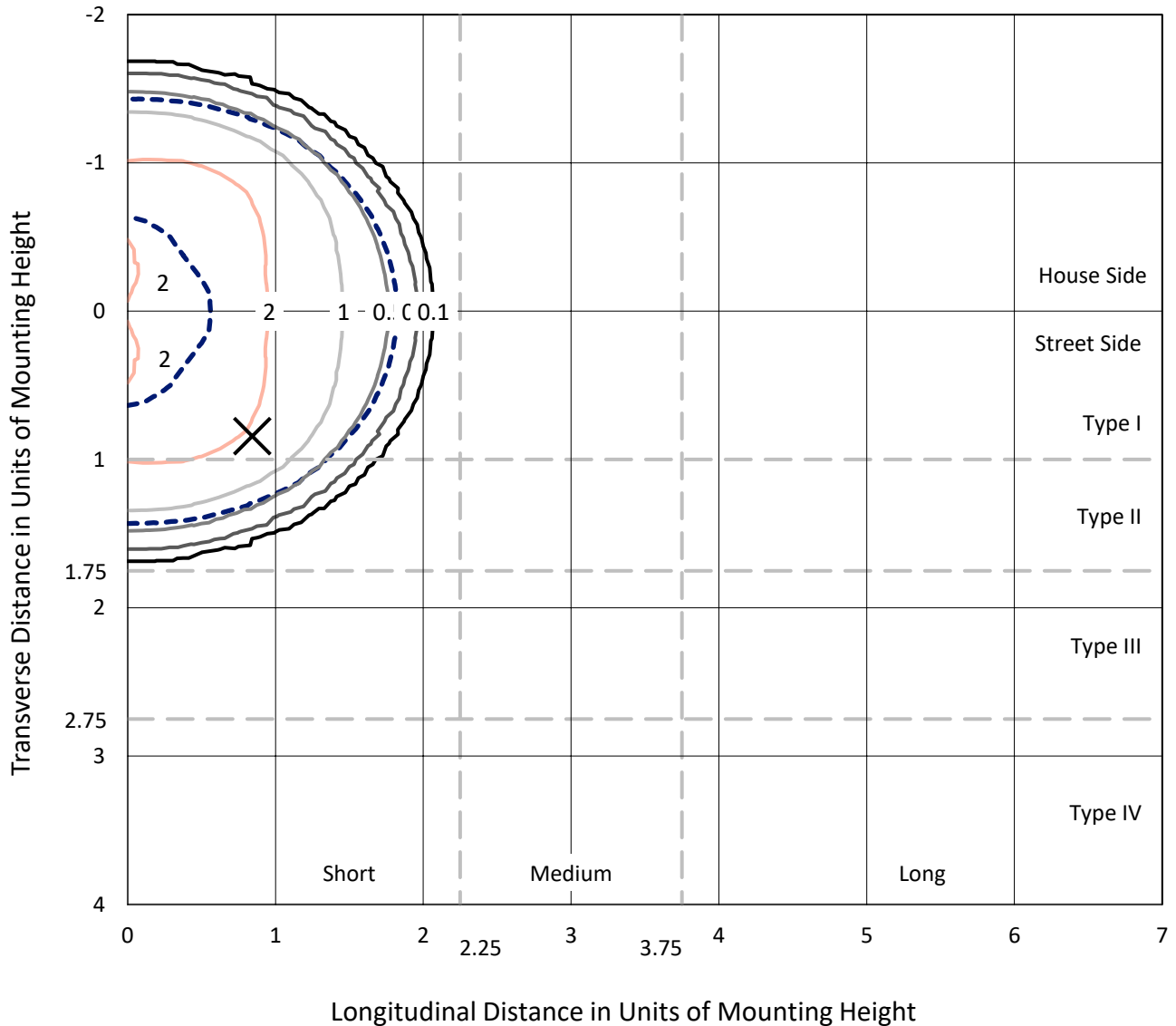
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

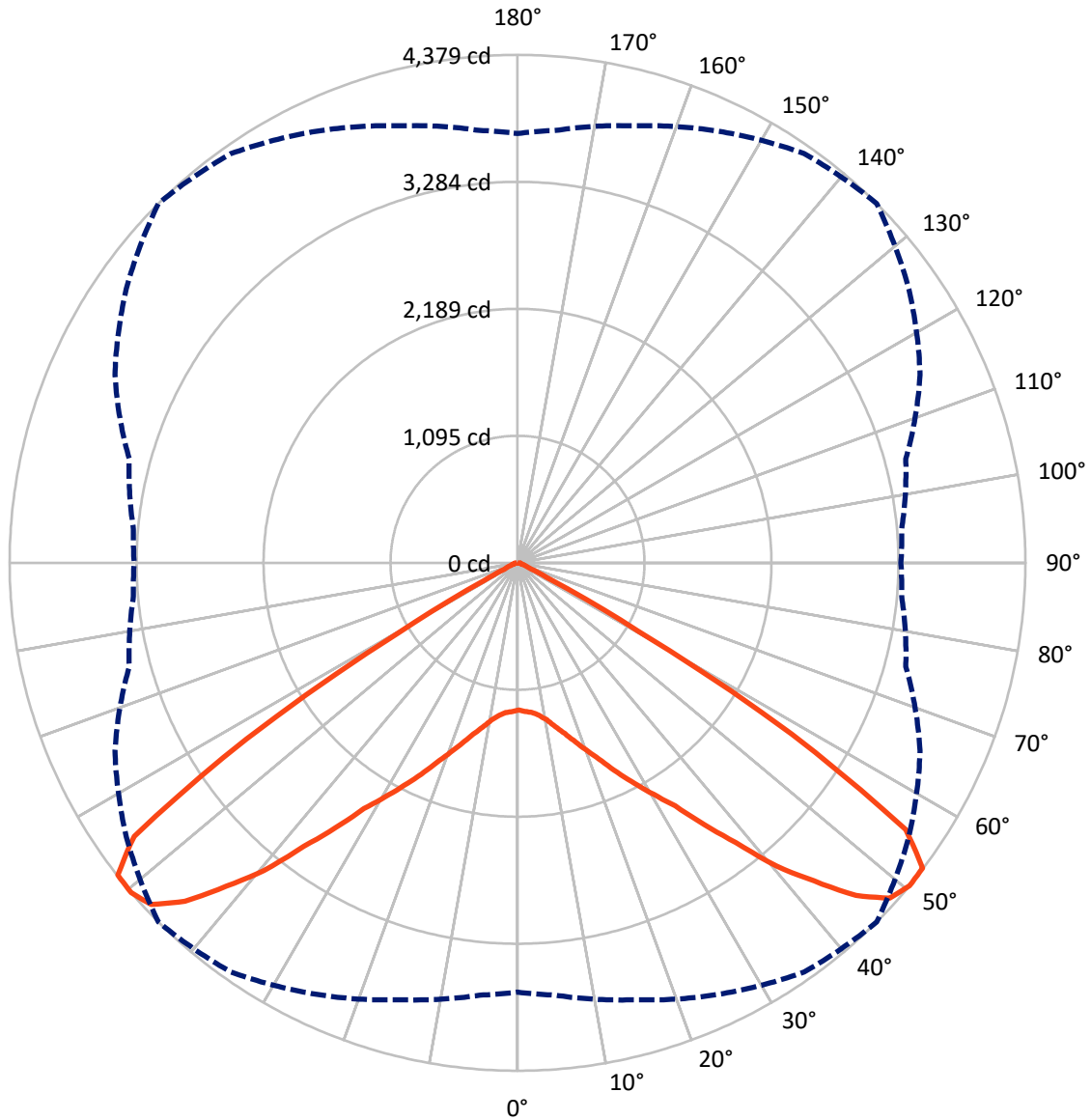
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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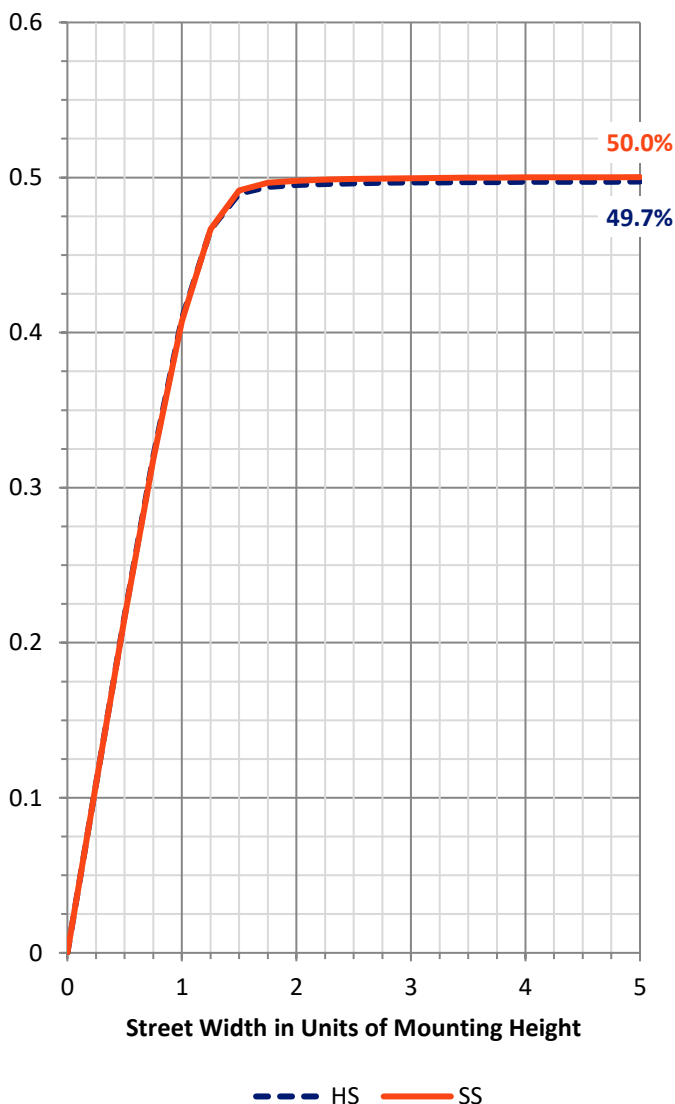
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4577.0	0.0	4577.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4577.0	0.0	4577.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9154.1	0.0	9154.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.3	1.4
10°-20°	435.2	4.8
20°-30°	888.8	9.7
30°-40°	1694.9	18.5
40°-50°	2856.1	31.2
50°-60°	2723.8	29.8
60°-70°	380.2	4.2
70°-80°	36.4	0.4
80°-90°	12.6	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°	9154.1	100.0
0°-180°	9154.1	100.0

**Coefficient of Utilization**



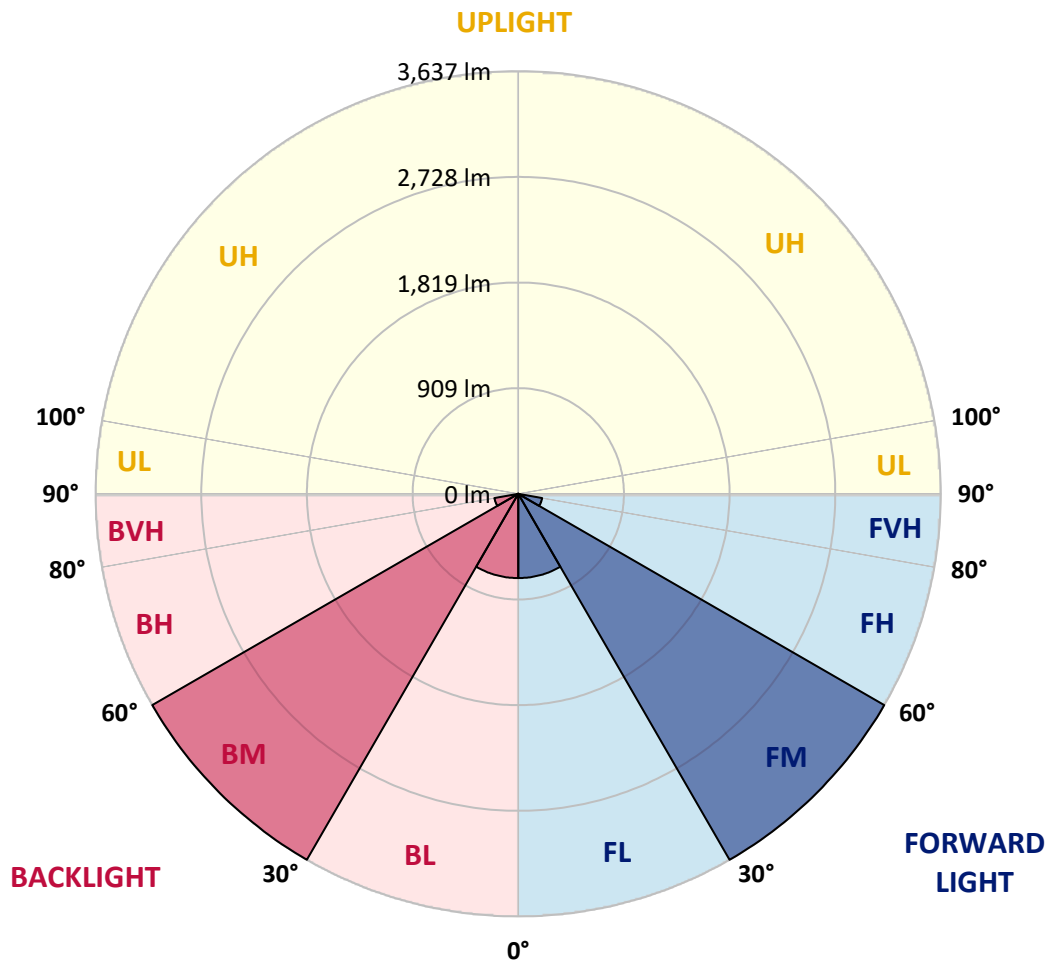
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.1	7.9			
FM (30°-60°)	3637.4	39.7			
FH (60°-80°)	208.3	2.3			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	725.1	7.9	B2/1000		
BM (30°-60°)	3637.4	39.7	B3/5000		
BH (60°-80°)	208.3	2.3	B1/500		G0/660
BVH (80°-90°)	6.3	0.1			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°	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1	1269.1
2.5°	1264.5	1264.5	1263.0	1275.3	1269.1	1282.9	1281.5	1286.1	1290.7	1289.1	1301.4
5°	1253.7	1252.2	1252.2	1266.0	1279.9	1295.3	1309.2	1318.4	1333.8	1333.8	1349.2
7.5°	1264.5	1256.8	1267.6	1273.7	1299.9	1326.1	1349.2	1367.7	1403.1	1415.4	1410.8
10°	1267.6	1276.8	1284.5	1303.0	1335.3	1375.4	1395.4	1441.6	1481.7	1509.4	1515.6
12.5°	1287.6	1301.4	1323.0	1367.7	1397.0	1449.3	1477.1	1521.7	1577.1	1608.0	1629.5
15°	1326.1	1330.7	1358.4	1415.4	1478.5	1526.3	1569.4	1601.8	1655.7	1691.1	1692.7
17.5°	1375.4	1395.4	1433.9	1487.8	1554.0	1624.9	1658.8	1694.2	1714.2	1762.0	1772.7
20°	1473.9	1477.1	1514.0	1584.9	1668.0	1732.7	1757.4	1775.8	1768.1	1817.4	1826.7
22.5°	1566.4	1569.4	1615.6	1711.2	1800.5	1855.9	1866.7	1855.9	1832.8	1868.2	1871.3
25°	1660.4	1688.1	1721.9	1817.4	1928.3	2002.2	2003.8	1974.5	1926.7	1932.9	1948.3
27.5°	1806.6	1826.7	1862.1	1949.9	2071.5	2154.7	2140.9	2105.4	2043.8	2048.4	2043.8
30°	1977.6	1996.1	2025.3	2137.7	2227.1	2318.0	2338.0	2304.1	2211.7	2191.7	2214.8
32.5°	2183.9	2210.2	2264.0	2367.2	2442.7	2498.2	2512.0	2499.7	2413.4	2405.8	2421.2
35°	2435.1	2470.4	2519.8	2610.6	2672.2	2772.3	2772.3	2730.7	2652.2	2661.4	2659.9
37.5°	2699.9	2752.3	2829.3	2921.7	3004.9	3058.8	3041.9	3006.4	2927.9	2907.8	2927.9
40°	3032.6	3058.8	3155.8	3276.0	3377.6	3439.2	3366.8	3289.9	3101.9	3131.2	3185.1
42.5°	3336.0	3377.6	3451.5	3584.0	3699.5	3750.3	3664.1	3511.6	3285.2	3262.1	3302.1
45°	3594.8	3639.5	3736.5	3925.9	4047.6	4092.3	3901.3	3654.9	3396.1	3337.5	3354.5
47.5°	3767.2	3790.3	3925.9	4106.1	4217.0	4318.6	4044.5	3753.4	3448.5	3337.5	3331.4
50°	3701.1	3741.1	3899.7	4104.6	4306.3	4378.8	4116.9	3828.9	3465.4	3323.7	3305.2
52.5°	3286.7	3356.0	3533.2	3808.9	4113.8	4372.6	4217.0	3804.3	3459.2	3337.5	3365.3
55°	2287.1	2288.7	2504.3	2911.0	3450.0	4059.9	4070.7	3832.0	3499.3	3423.8	3425.4
57.5°	919.5	965.7	1130.5	1538.7	2036.1	2787.7	3314.4	3554.7	3503.9	3485.4	3533.2
60°	232.6	234.1	284.9	434.3	716.2	1195.2	1735.8	2348.8	2704.6	2826.2	2843.2
62.5°	118.6	120.1	132.5	154.0	195.6	320.3	569.9	904.1	1286.1	1480.1	1530.9
65°	97.0	97.0	104.8	115.5	117.1	123.2	147.8	211.0	306.5	348.0	352.7
67.5°	73.9	73.9	80.1	86.3	89.3	87.8	84.7	87.8	106.3	101.6	98.6
70°	46.2	47.8	50.8	57.0	60.1	61.6	63.1	66.2	75.5	78.5	75.5
72.5°	27.7	27.7	29.3	33.9	38.5	41.6	46.2	49.3	53.9	61.6	60.1
75°	12.3	12.3	15.4	20.0	24.7	29.3	33.9	38.5	41.6	46.2	47.8
77.5°	3.1	4.6	7.7	13.9	18.5	24.7	30.8	35.4	38.5	38.5	37.0
80°	1.6	1.6	6.2	10.8	20.0	26.2	33.9	37.0	41.6	38.5	33.9
82.5°	1.6	1.6	6.2	10.8	18.5	26.2	35.4	40.0	43.1	38.5	32.3
85°	0.0	1.6	4.6	9.2	15.4	18.5	15.4	10.8	6.2	6.2	4.6
87.5°	0.0	0.0	1.6	1.6	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)