

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: P949451

Luminaire Tested: **GALN-SB4A-950-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-950-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

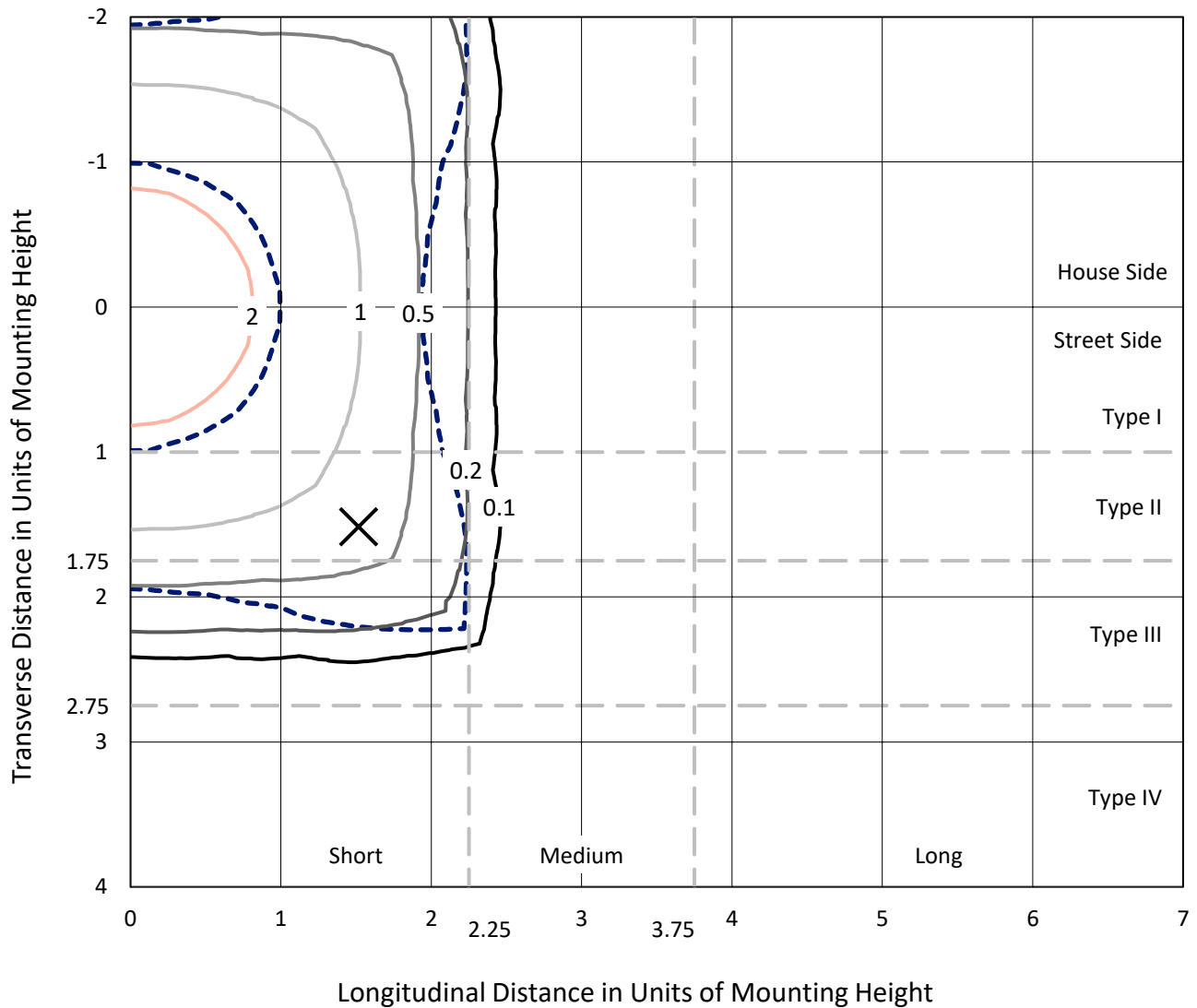
Lumens per Lamp: N/A  
Luminaire Lumens: 13105 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

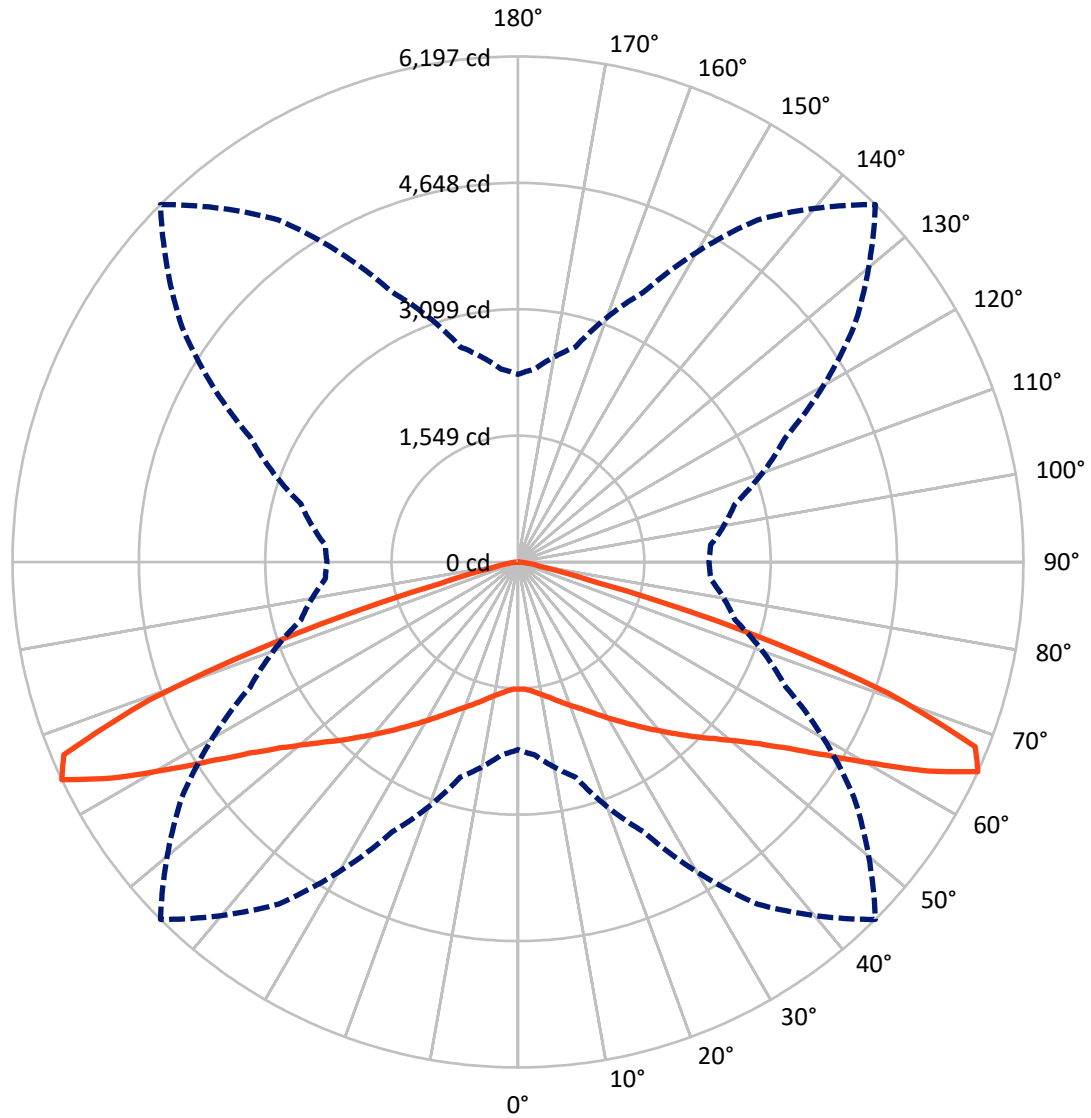
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6552.5	0.0	6552.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6552.5	0.0	6552.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13105.0	0.0	13105.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	1.2
10°-20°	502.3	3.8
20°-30°	948.3	7.2
30°-40°	1552.8	11.8
40°-50°	2407.7	18.4
50°-60°	3556.6	27.1
60°-70°	3385.6	25.8
70°-80°	546.3	4.2
80°-90°	51.5	0.4
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°	13105.0	100.0
0°-180°	13105.0	100.0



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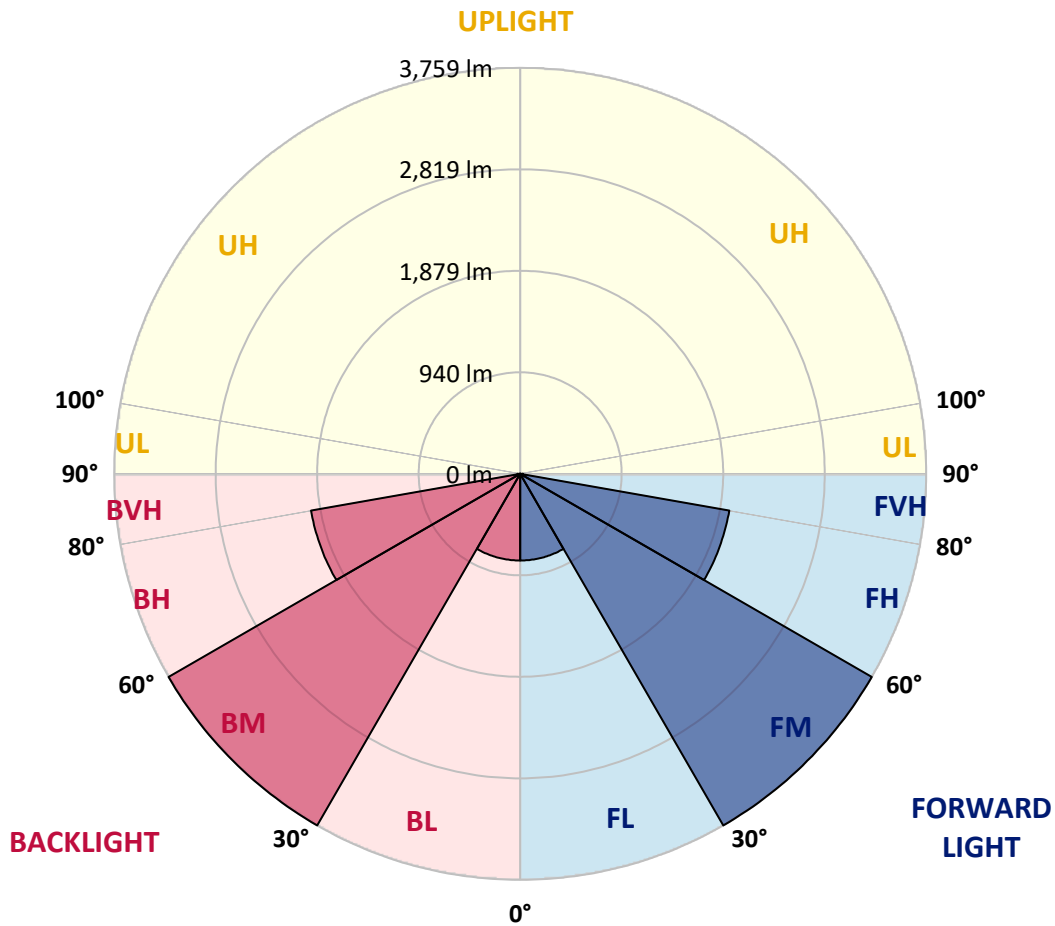
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.2	6.1			
FM (30°-60°)	3758.6	28.7			
FH (60°-80°)	1965.9	15.0			G2/5000
FVH (80°-90°)	25.7	0.2			G1/100
BL (0°-30°)	802.2	6.1	B2/1000		
BM (30°-60°)	3758.6	28.7	B3/5000		
BH (60°-80°)	1965.9	15.0	B3/2500		G2/5000
BVH (80°-90°)	25.7	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-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	1570.1	1564.9	1568.8	1565.5	1562.9	1560.3	1561.6	1566.2	1568.2	1568.8
5°	1591.2	1586.6	1588.6	1588.6	1584.0	1582.6	1583.3	1586.6	1590.5	1590.5
7.5°	1625.4	1620.8	1625.4	1622.7	1618.8	1617.5	1616.8	1619.5	1625.4	1625.4
10°	1666.8	1661.5	1664.2	1662.9	1658.3	1656.3	1655.6	1659.6	1664.8	1664.2
12.5°	1712.2	1706.3	1709.5	1705.6	1704.3	1702.3	1702.3	1701.6	1704.9	1702.3
15°	1762.8	1758.9	1760.2	1757.5	1759.5	1758.2	1752.9	1750.3	1751.6	1747.7
17.5°	1822.6	1813.4	1818.0	1816.7	1816.7	1819.3	1810.8	1807.5	1810.1	1806.2
20°	1891.7	1882.5	1884.4	1881.8	1878.5	1881.2	1870.6	1873.3	1875.2	1872.6
22.5°	1967.3	1955.5	1954.8	1956.1	1948.9	1949.5	1942.3	1948.9	1952.8	1945.6
25°	2044.9	2032.4	2040.9	2037.6	2028.4	2030.4	2025.1	2031.7	2035.0	2025.8
27.5°	2127.1	2118.5	2126.4	2128.4	2117.2	2125.1	2117.2	2123.1	2126.4	2112.6
30°	2223.1	2214.5	2221.7	2227.0	2213.9	2226.3	2219.8	2223.7	2224.4	2207.9
32.5°	2327.6	2314.5	2332.9	2335.5	2321.0	2336.2	2327.6	2332.9	2336.2	2313.8
35°	2455.2	2438.7	2459.8	2456.5	2444.0	2456.5	2448.6	2456.5	2464.4	2437.4
37.5°	2592.6	2575.5	2597.8	2591.9	2580.1	2588.6	2584.0	2589.3	2601.8	2572.9
40°	2743.8	2722.8	2753.0	2742.5	2731.3	2730.0	2732.6	2735.9	2752.4	2720.1
42.5°	2905.6	2883.2	2928.6	2912.1	2896.4	2885.8	2894.4	2901.0	2916.7	2880.6
45°	3090.3	3064.7	3123.9	3104.1	3079.1	3057.4	3071.3	3081.1	3104.1	3060.7
47.5°	3294.2	3265.2	3328.3	3322.4	3281.7	3234.3	3265.9	3294.2	3311.2	3258.6
50°	3493.4	3471.0	3553.9	3561.1	3511.1	3444.7	3488.8	3531.5	3536.1	3467.1
52.5°	3680.1	3657.8	3778.1	3823.5	3778.7	3699.8	3746.5	3789.9	3755.1	3665.6
55°	3829.4	3811.0	3964.2	4081.2	4096.3	4031.2	4058.8	4057.5	3943.1	3805.7
57.5°	3865.5	3862.9	4056.2	4304.1	4461.9	4469.8	4415.2	4275.8	4029.3	3844.5
60°	3701.2	3717.6	3983.2	4420.5	4841.3	5016.2	4780.1	4382.3	3931.3	3674.9
62.5°	3209.3	3252.7	3572.9	4278.5	5147.7	5644.8	5072.7	4220.6	3528.9	3194.2
65°	2300.0	2375.6	2729.3	3651.2	5120.1	6197.1	5030.6	3621.6	2755.6	2369.7
67.5°	1043.5	1120.4	1420.9	2499.9	4450.7	6047.2	4440.2	2526.2	1491.9	1124.4
70°	378.1	391.2	487.9	1000.7	2844.4	4818.3	2966.1	1008.0	518.8	416.9
72.5°	228.8	230.8	251.2	358.3	988.2	2925.3	1030.3	370.2	256.4	227.5
75°	145.3	144.0	178.8	219.0	350.5	986.9	367.6	219.0	178.2	162.4
77.5°	104.5	107.8	128.2	163.7	220.9	334.7	217.0	156.5	128.2	105.2
80°	78.2	80.2	93.4	127.6	155.2	208.4	138.1	115.7	96.7	65.8
82.5°	56.5	56.5	61.1	92.7	94.7	112.4	75.0	81.5	63.8	46.7
85°	33.5	32.9	38.1	55.2	49.3	41.4	34.2	50.0	40.1	28.9
87.5°	11.8	12.5	11.8	15.8	13.2	11.2	10.5	13.8	11.2	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1559.6
1568.8
1590.5
1623.4
1662.9
1703.6
1748.3
1809.5
1878.5
1952.8
2036.3
2123.1
2217.8
2328.9
2453.8
2590.6
2730.7
2899.6
3083.1
3276.4
3475.6
3668.3
3810.3
3832.7
3644.6
3174.5
2341.4
1107.9
411.6
231.4
163.7
107.2
67.7
46.7
28.3
9.2
0.0

OF REPORT)