

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: P949430

Luminaire Tested: **GALN-SB4A-940-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949430  
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-940-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

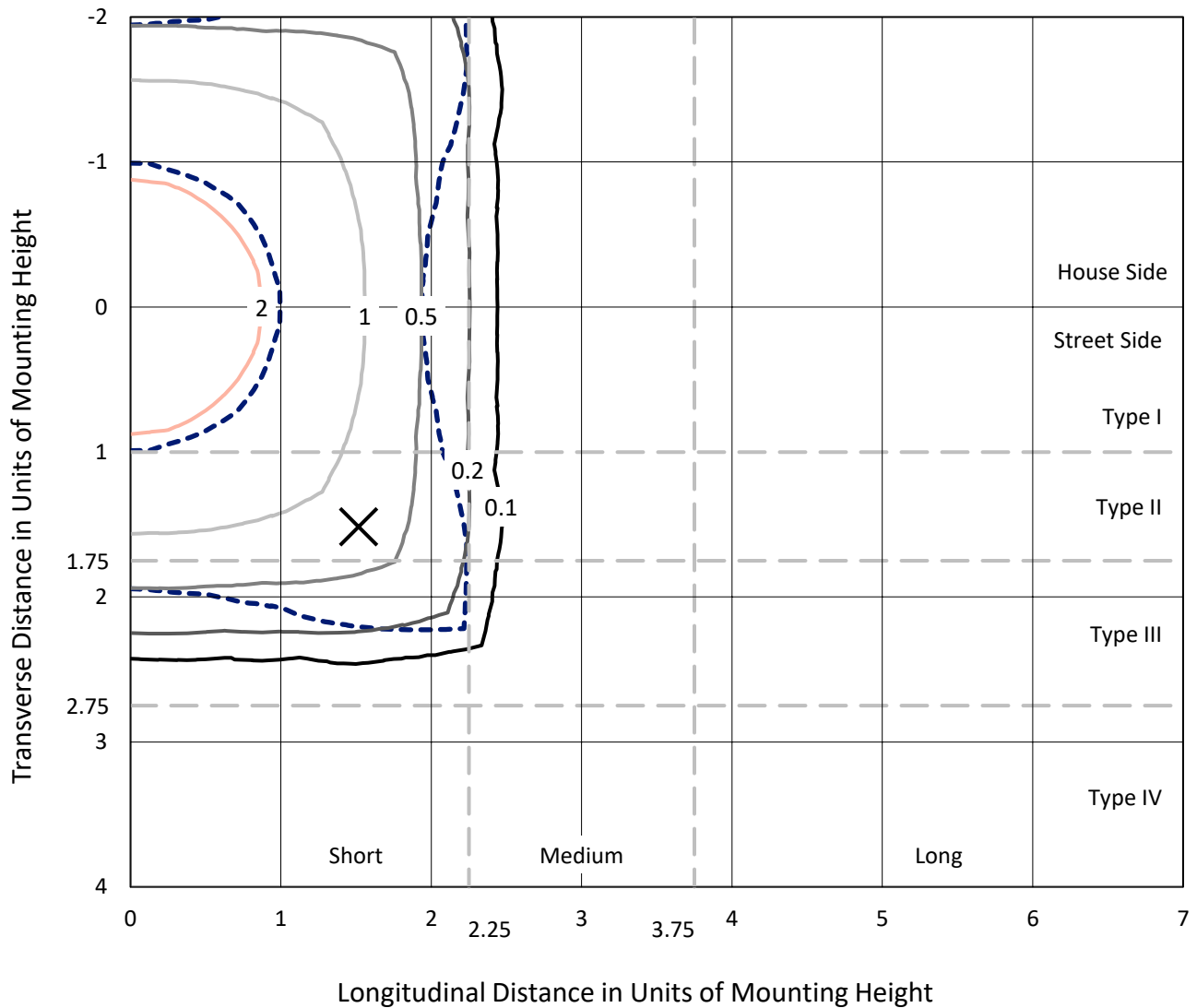
Lumens per Lamp: N/A  
Luminaire Lumens: 13651 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

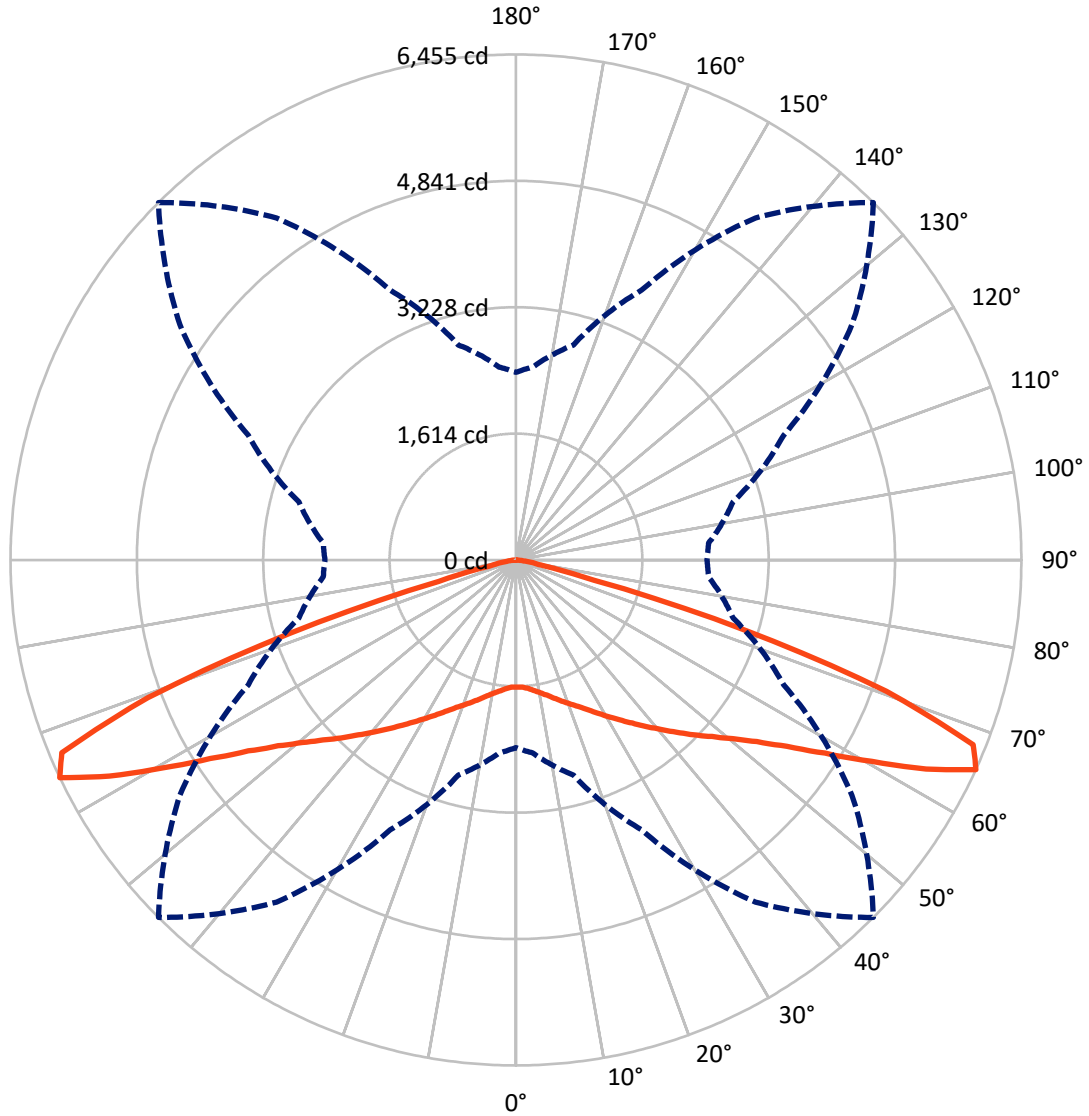
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	6825.5	0.0	6825.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6825.5	0.0	6825.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13651.0	0.0	13651.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.3	1.2
10°-20°	523.2	3.8
20°-30°	987.8	7.2
30°-40°	1617.5	11.8
40°-50°	2508.0	18.4
50°-60°	3704.8	27.1
60°-70°	3526.6	25.8
70°-80°	569.1	4.2
80°-90°	53.6	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°	13651.0	100.0
0°-180°	13651.0	100.0



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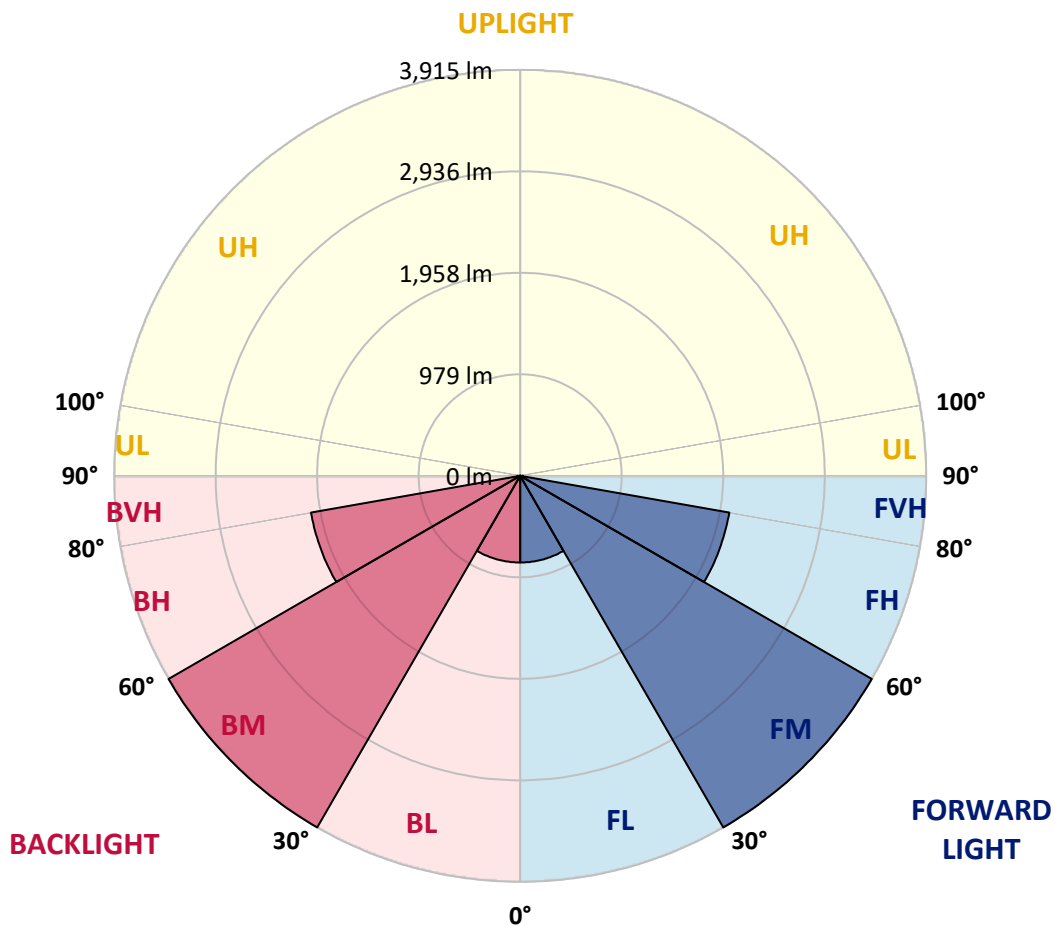
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.7	6.1			
FM (30°-60°)	3915.2	28.7			
FH (60°-80°)	2047.9	15.0			G2/5000
FVH (80°-90°)	26.8	0.2			G1/100
BL (0°-30°)	835.7	6.1	B2/1000		
BM (30°-60°)	3915.2	28.7	B3/5000		
BH (60°-80°)	2047.9	15.0	B3/2500		G2/5000
BVH (80°-90°)	26.8	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°	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6
2.5°	1635.6	1630.1	1634.2	1630.8	1628.0	1625.3	1626.7	1631.5	1633.5	1634.2
5°	1657.5	1652.7	1654.7	1654.7	1649.9	1648.6	1649.3	1652.7	1656.8	1656.8
7.5°	1693.1	1688.3	1693.1	1690.4	1686.2	1684.9	1684.2	1686.9	1693.1	1693.1
10°	1736.2	1730.8	1733.5	1732.1	1727.3	1725.3	1724.6	1728.7	1734.2	1733.5
12.5°	1783.5	1777.3	1780.8	1776.7	1775.3	1773.2	1773.2	1772.5	1776.0	1773.2
15°	1836.2	1832.1	1833.5	1830.8	1832.8	1831.4	1826.0	1823.2	1824.6	1820.5
17.5°	1898.6	1889.0	1893.8	1892.4	1892.4	1895.1	1886.2	1882.8	1885.6	1881.4
20°	1970.5	1960.9	1963.0	1960.2	1956.8	1959.5	1948.6	1951.3	1953.4	1950.6
22.5°	2049.2	2036.9	2036.2	2037.6	2030.1	2030.8	2023.2	2030.1	2034.2	2026.6
25°	2130.1	2117.1	2126.0	2122.5	2112.9	2115.0	2109.5	2116.4	2119.8	2110.2
27.5°	2215.7	2206.8	2215.0	2217.1	2205.4	2213.6	2205.4	2211.6	2215.0	2200.6
30°	2315.7	2306.8	2314.3	2319.8	2306.1	2319.1	2312.3	2316.4	2317.0	2299.9
32.5°	2424.6	2410.9	2430.1	2432.8	2417.7	2433.5	2424.6	2430.1	2433.5	2410.2
35°	2557.5	2540.3	2562.2	2558.8	2545.8	2558.8	2550.6	2558.8	2567.0	2539.0
37.5°	2700.6	2682.8	2706.1	2699.9	2687.6	2696.5	2691.7	2697.2	2710.2	2680.1
40°	2858.1	2836.2	2867.7	2856.8	2845.1	2843.7	2846.5	2849.9	2867.0	2833.5
42.5°	3026.6	3003.3	3050.6	3033.5	3017.0	3006.1	3015.0	3021.8	3038.3	3000.6
45°	3219.1	3192.4	3254.0	3233.5	3207.4	3184.8	3199.2	3209.5	3233.5	3188.3
47.5°	3431.4	3401.3	3467.0	3460.8	3418.4	3369.1	3401.9	3431.4	3449.2	3394.4
50°	3638.9	3615.6	3701.9	3709.5	3657.4	3588.2	3634.1	3678.6	3683.4	3611.5
52.5°	3833.4	3810.2	3935.5	3982.7	3936.2	3854.0	3902.6	3947.8	3911.5	3818.4
55°	3988.9	3969.7	4129.3	4251.2	4267.0	4199.2	4227.9	4226.6	4107.4	3964.3
57.5°	4026.6	4023.8	4225.2	4483.4	4647.8	4656.0	4599.2	4454.0	4197.1	4004.7
60°	3855.4	3872.5	4149.2	4604.6	5043.0	5225.2	4979.3	4564.9	4095.1	3828.0
62.5°	3343.0	3388.2	3721.8	4456.7	5362.2	5879.9	5284.1	4396.4	3675.9	3327.3
65°	2395.8	2474.6	2843.1	3803.3	5333.4	6455.3	5240.2	3772.5	2870.5	2468.4
67.5°	1087.0	1167.1	1480.1	2604.0	4636.2	6299.1	4625.2	2631.4	1554.1	1171.2
70°	393.8	407.5	508.2	1042.4	2962.9	5019.0	3089.6	1050.0	540.4	434.2
72.5°	238.3	240.4	261.6	373.3	1029.4	3047.2	1073.3	385.6	267.1	237.0
75°	151.4	150.0	186.3	228.1	365.1	1028.0	382.9	228.1	185.6	169.2
77.5°	108.9	112.3	133.6	170.5	230.1	348.6	226.0	163.0	133.6	109.6
80°	81.5	83.6	97.3	132.9	161.6	217.1	143.8	120.5	100.7	68.5
82.5°	58.9	58.9	63.7	96.6	98.6	117.1	78.1	84.9	66.4	48.6
85°	34.9	34.2	39.7	57.5	51.4	43.1	35.6	52.1	41.8	30.1
87.5°	12.3	13.0	12.3	16.4	13.7	11.6	11.0	14.4	11.6	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1624.6
1634.2
1656.8
1691.0
1732.1
1774.6
1821.2
1884.9
1956.8
2034.2
2121.2
2211.6
2310.2
2425.9
2556.1
2698.5
2844.4
3020.5
3211.5
3412.9
3620.4
3821.1
3969.1
3992.3
3796.5
3306.7
2439.0
1154.1
428.8
241.1
170.5
111.6
70.5
48.6
29.5
9.6
0.0

OF REPORT)