

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: P951214

Luminaire Tested: **GALN-SB5B-940-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951214  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5B-940-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

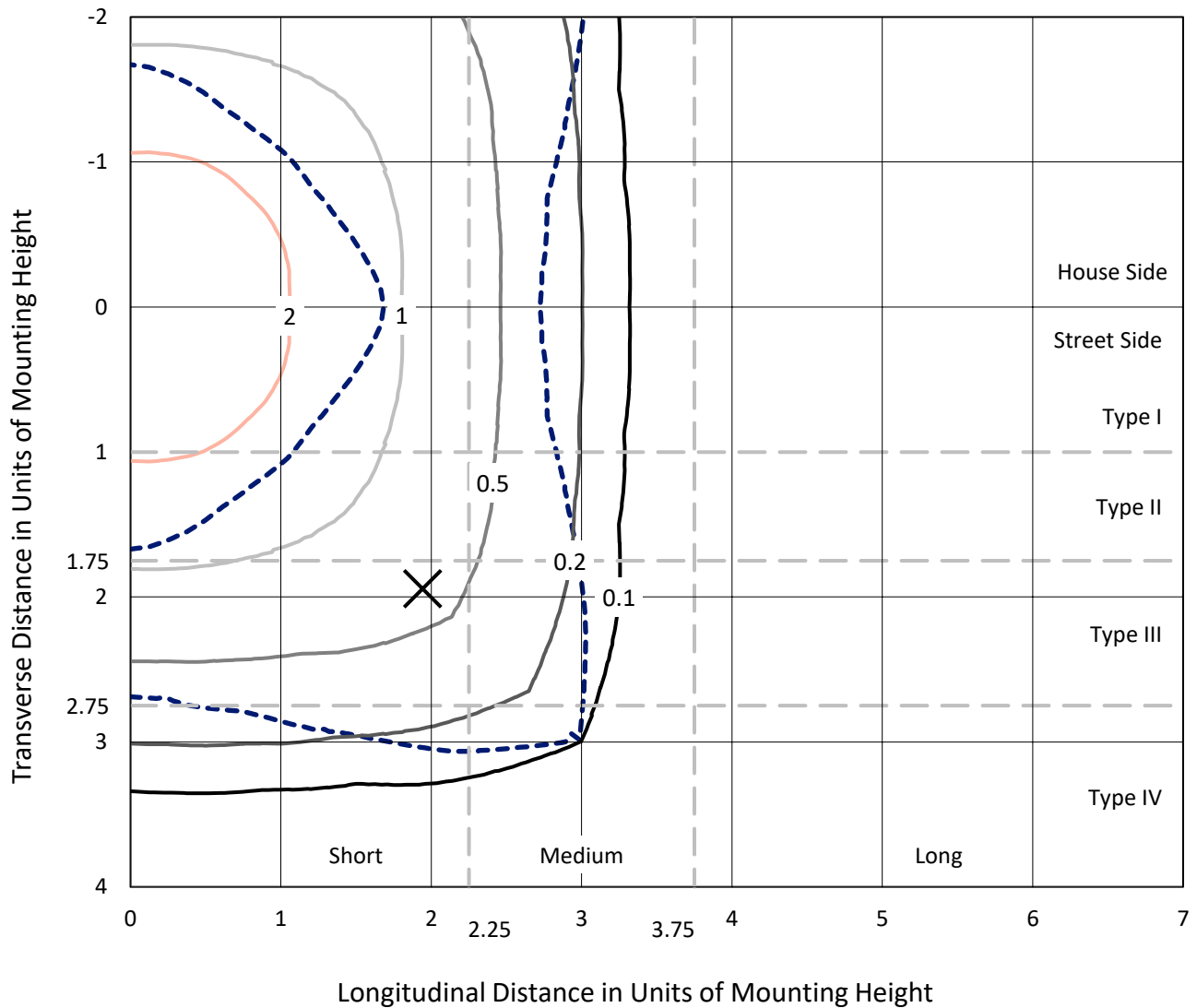
Lumens per Lamp: N/A  
Luminaire Lumens: 21586 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

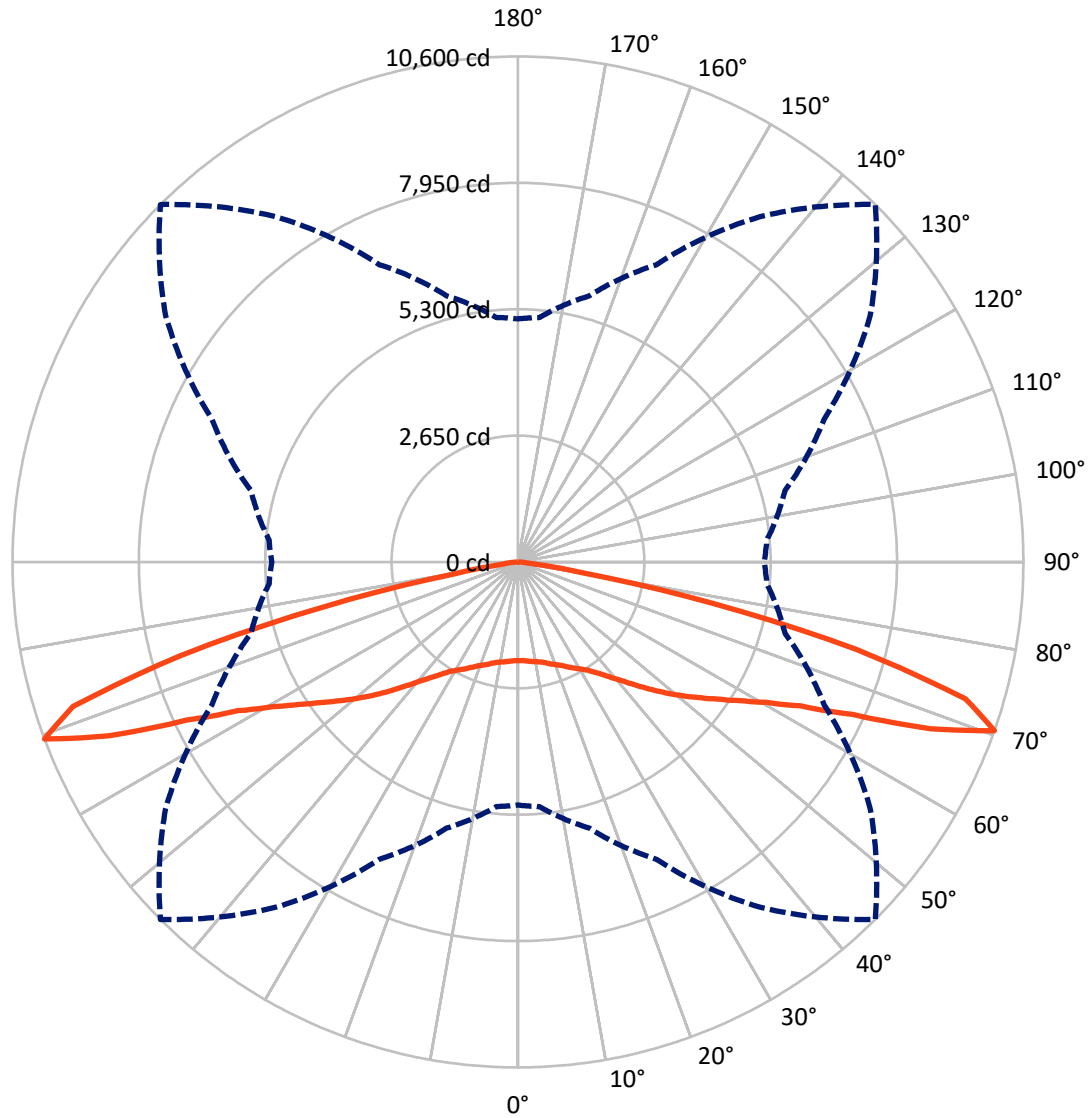
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10793.0	0.0	10793.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10793.0	0.0	10793.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21586.0	0.0	21586.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.9	0.9
10°-20°	622.9	2.9
20°-30°	1113.2	5.2
30°-40°	1804.5	8.4
40°-50°	2939.2	13.6
50°-60°	4481.3	20.8
60°-70°	6666.7	30.9
70°-80°	3633.6	16.8
80°-90°	123.7	0.6
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°	21586.0	100.0
0°-180°	21586.0	100.0



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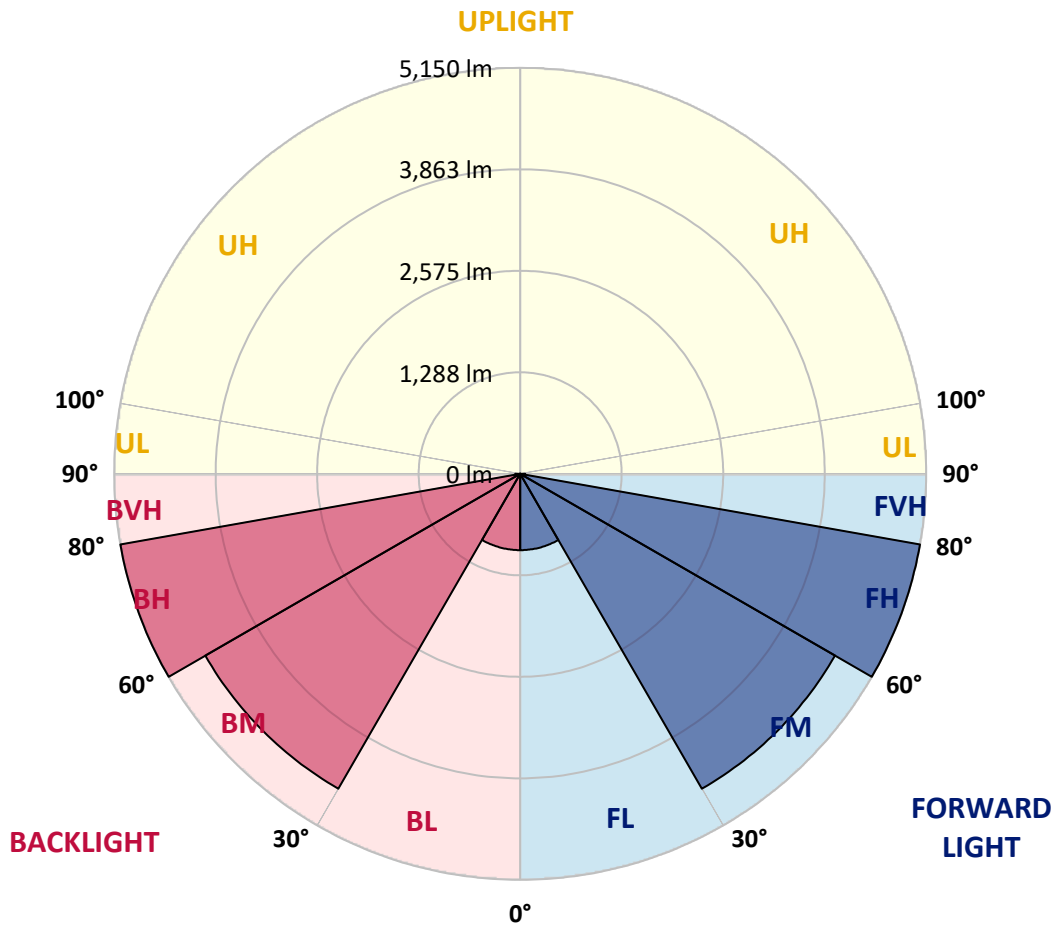
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.5	4.5			
FM (30°-60°)	4612.5	21.4			
FH (60°-80°)	5150.2	23.9			G3/7500
FVH (80°-90°)	61.9	0.3			G1/100
BL (0°-30°)	968.5	4.5	B2/1000		
BM (30°-60°)	4612.5	21.4	B3/5000		
BH (60°-80°)	5150.2	23.9	B5		G3/7500
BVH (80°-90°)	61.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7
2.5°	2077.5	2079.6	2075.3	2073.1	2071.0	2067.7	2068.8	2074.2	2078.6	2077.5
5°	2094.8	2097.0	2093.7	2092.6	2088.3	2087.2	2087.2	2092.6	2095.9	2093.7
7.5°	2114.3	2117.6	2112.1	2111.1	2108.9	2106.7	2105.6	2111.1	2114.3	2114.3
10°	2132.7	2136.0	2131.7	2128.4	2126.2	2126.2	2124.1	2128.4	2133.8	2132.7
12.5°	2152.2	2154.4	2150.1	2147.9	2147.9	2151.2	2147.9	2150.1	2154.4	2152.2
15°	2176.1	2177.2	2176.1	2179.3	2184.8	2195.6	2185.8	2183.7	2185.8	2180.4
17.5°	2208.6	2210.8	2215.1	2222.7	2230.3	2249.8	2232.4	2227.0	2227.0	2216.2
20°	2248.7	2251.9	2258.4	2271.5	2281.2	2299.6	2282.3	2274.7	2271.5	2257.4
22.5°	2291.0	2296.4	2306.1	2323.5	2340.8	2358.1	2340.8	2327.8	2318.1	2299.6
25°	2339.7	2346.2	2361.4	2389.6	2413.4	2438.3	2417.8	2391.7	2372.2	2346.2
27.5°	2409.1	2416.7	2435.1	2469.8	2500.1	2521.8	2502.3	2468.7	2441.6	2410.2
30°	2506.6	2514.2	2535.9	2572.7	2593.3	2607.4	2594.4	2568.4	2535.9	2500.1
32.5°	2632.3	2642.1	2665.9	2700.6	2704.9	2707.1	2702.8	2689.8	2665.9	2622.6
35°	2791.6	2802.5	2829.6	2857.7	2853.4	2857.7	2851.2	2846.9	2829.6	2779.7
37.5°	2986.7	2999.7	3027.9	3049.6	3038.7	3033.3	3034.4	3035.5	3025.7	2970.4
40°	3213.2	3230.5	3251.1	3273.9	3255.5	3239.2	3250.0	3258.7	3250.0	3193.7
42.5°	3446.2	3471.1	3492.8	3525.3	3510.1	3489.5	3504.7	3514.5	3496.0	3435.4
45°	3705.2	3729.0	3757.2	3806.0	3795.1	3773.5	3795.1	3797.3	3765.9	3694.4
47.5°	3972.9	3997.8	4040.1	4105.1	4100.8	4076.9	4105.1	4089.9	4049.8	3964.2
50°	4226.5	4261.1	4326.2	4417.2	4425.9	4396.6	4434.5	4405.3	4338.1	4230.8
52.5°	4464.9	4501.7	4604.7	4728.2	4759.6	4721.7	4772.7	4721.7	4620.9	4483.3
55°	4715.2	4756.4	4878.9	5040.3	5103.2	5075.0	5122.7	5045.7	4902.7	4735.8
57.5°	5010.0	5034.9	5181.2	5373.0	5479.2	5485.7	5507.4	5377.4	5204.0	5014.3
60°	5329.7	5364.4	5523.7	5753.4	5921.4	5975.6	5952.8	5759.9	5558.3	5340.5
62.5°	5739.3	5777.2	5968.0	6243.2	6508.8	6643.1	6554.3	6274.7	6025.4	5764.2
65°	6078.5	6120.8	6465.4	6956.3	7439.7	7709.5	7486.3	6971.5	6522.8	6154.4
67.5°	5832.5	5884.5	6425.3	7327.0	8528.8	9334.0	8570.0	7437.5	6558.6	6059.0
70°	5097.8	5146.5	5777.2	6879.4	8835.5	10599.8	9019.7	7082.0	5797.8	5238.6
72.5°	3384.4	3541.6	4179.9	5502.0	7889.4	9808.6	7967.4	5390.4	3877.5	3376.8
75°	1122.7	1248.4	1684.1	2852.3	5284.2	7335.6	5030.6	2524.0	1334.0	960.2
77.5°	282.8	326.2	449.7	816.0	2107.8	4176.6	1897.6	666.5	363.0	253.6
80°	137.6	151.7	216.7	272.0	527.8	1327.5	495.3	255.8	171.2	132.2
82.5°	75.9	76.9	122.5	153.9	196.2	343.5	203.7	149.6	98.6	80.2
85°	46.6	45.5	65.0	82.4	82.4	122.5	97.5	82.4	56.4	49.9
87.5°	18.4	18.4	23.8	26.0	22.8	31.4	24.9	27.1	21.7	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
2067.7
2078.6
2094.8
2114.3
2132.7
2151.2
2180.4
2216.2
2257.4
2298.5
2345.1
2409.1
2500.1
2623.7
2779.7
2970.4
3193.7
3439.7
3701.9
3958.8
4228.6
4470.3
4713.0
4988.3
5305.8
5718.7
6093.7
5984.2
5163.9
3267.4
908.1
226.5
121.4
80.2
52.0
21.7
0.0

OF REPORT)