

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: P941640

Luminaire Tested: **GALN-SB5B-740-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

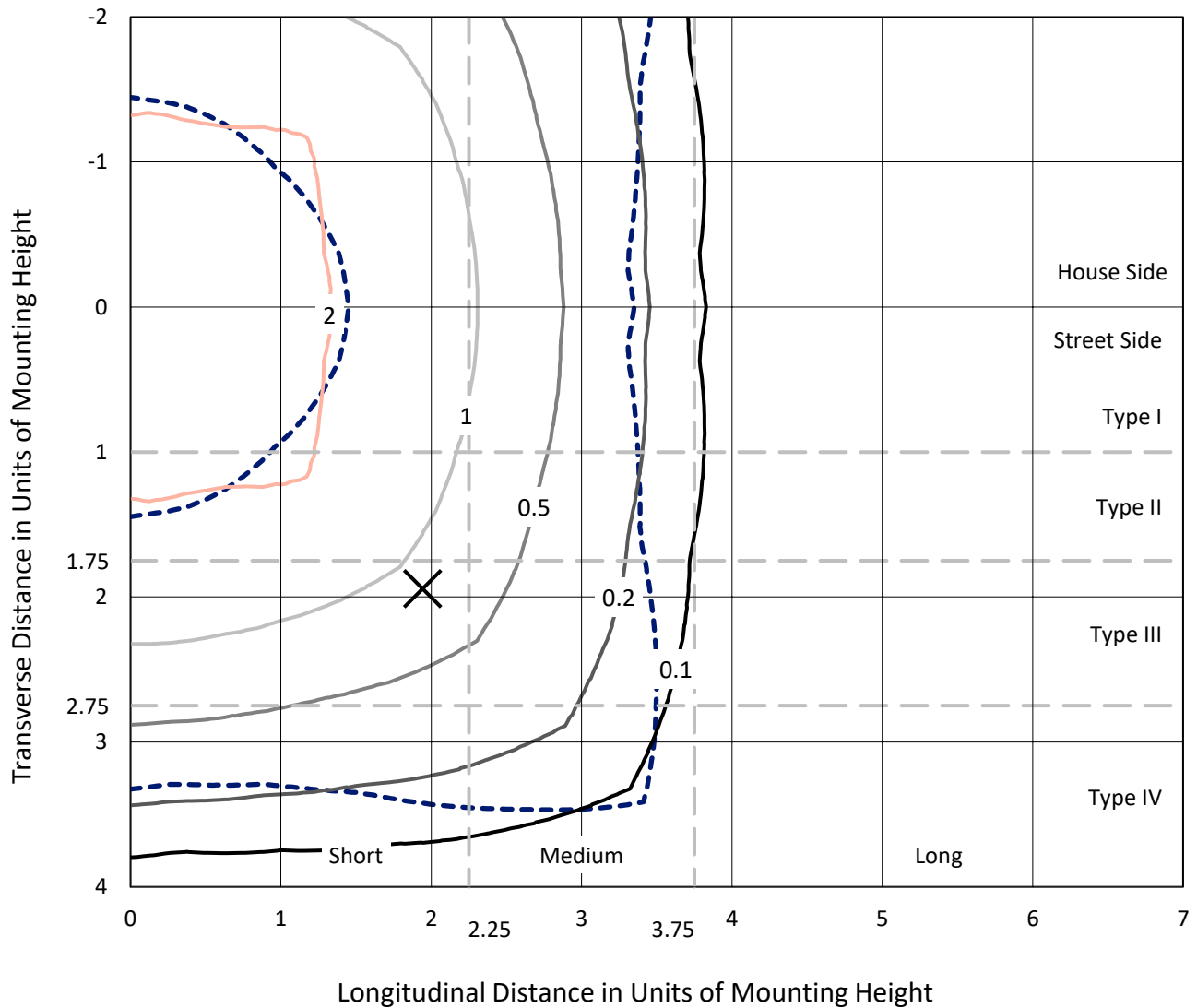
Lumens per Lamp: N/A  
Luminaire Lumens: 30440 lumens  
Efficiency: N/A  
Efficacy: 166.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

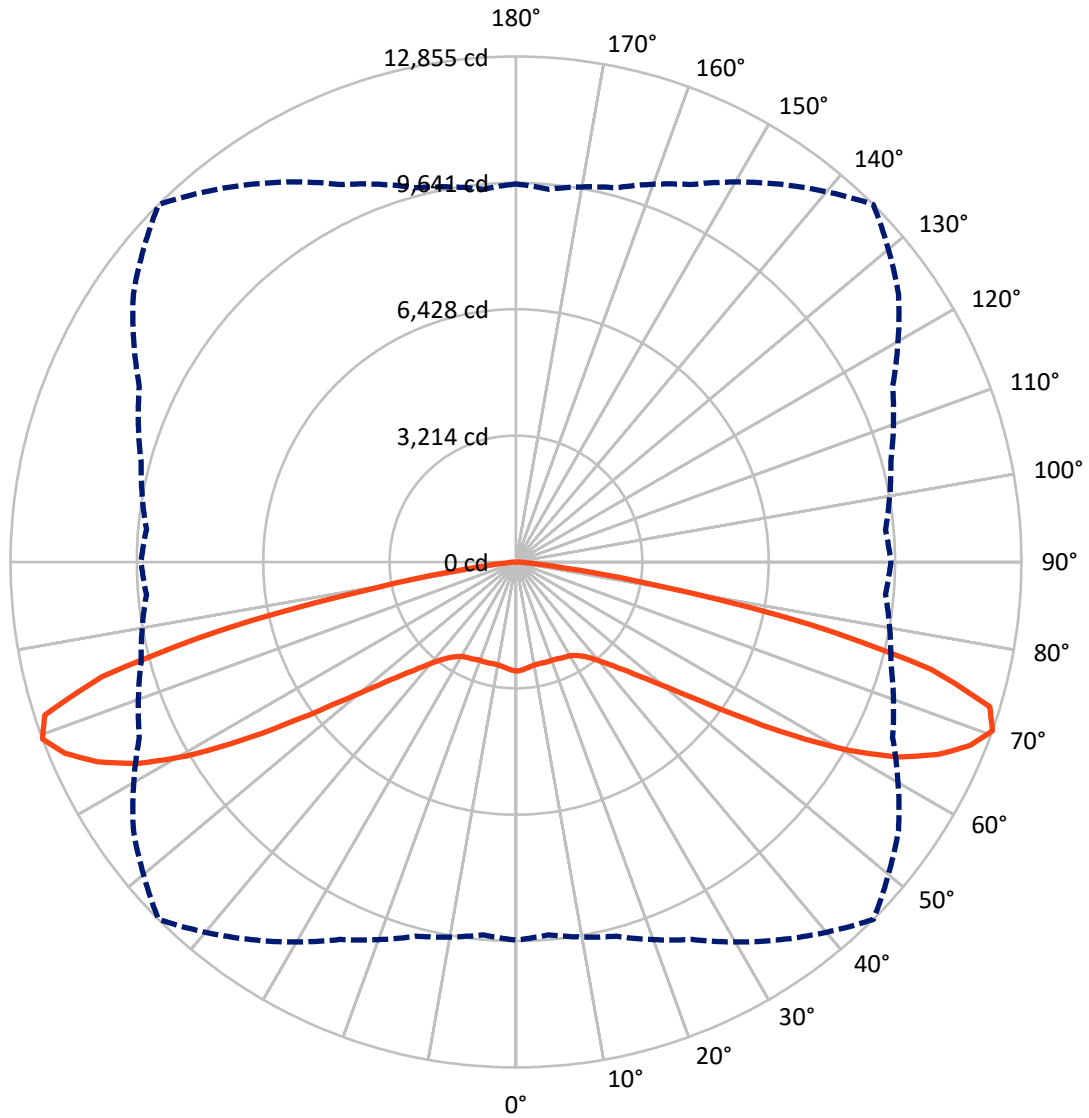
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	15220.0	0.0	15220.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15220.0	0.0	15220.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30440.0	0.0	30440.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.3	0.8
10°-20°	758.4	2.5
20°-30°	1262.2	4.1
30°-40°	1908.8	6.3
40°-50°	3171.9	10.4
50°-60°	5985.3	19.7
60°-70°	10106.3	33.2
70°-80°	6640.9	21.8
80°-90°	347.9	1.1
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°	30440.0	100.0
0°-180°	30440.0	100.0



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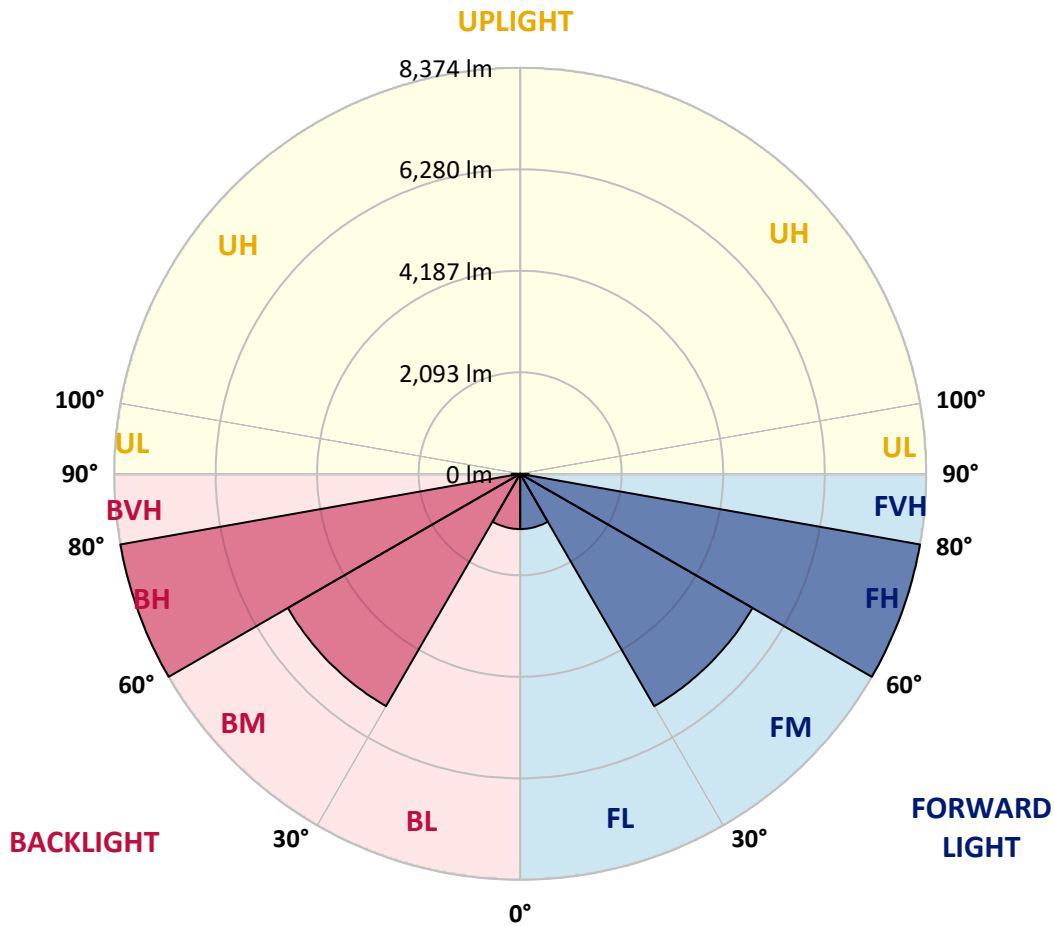
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.4	3.7			
FM (30°-60°)	5533.0	18.2			
FH (60°-80°)	8373.6	27.5			G4/12000
FVH (80°-90°)	174.0	0.6			G2/225
BL (0°-30°)	1139.4	3.7	B3/2500		
BM (30°-60°)	5533.0	18.2	B4/8500		
BH (60°-80°)	8373.6	27.5	B5		G4/12000
BVH (80°-90°)	174.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2776.7	2776.7	2776.7	2776.7	2776.7	2776.7	2776.7	2776.7	2776.7	2776.7
2.5°	2759.3	2767.2	2764.1	2757.8	2757.8	2753.0	2757.8	2760.9	2765.7	2768.8
5°	2722.9	2729.3	2727.7	2722.9	2724.5	2719.8	2722.9	2727.7	2730.9	2732.4
7.5°	2691.3	2697.6	2694.5	2686.6	2686.6	2681.8	2683.4	2688.1	2692.9	2694.5
10°	2683.4	2689.7	2680.2	2667.6	2662.8	2656.5	2658.1	2662.8	2672.3	2677.1
12.5°	2686.6	2691.3	2681.8	2662.8	2658.1	2651.7	2651.7	2656.5	2669.2	2675.5
15°	2696.0	2700.8	2686.6	2666.0	2661.2	2656.5	2654.9	2661.2	2675.5	2686.6
17.5°	2713.5	2718.2	2696.0	2667.6	2661.2	2662.8	2661.2	2666.0	2688.1	2708.7
20°	2729.3	2732.4	2702.4	2667.6	2661.2	2662.8	2661.2	2670.7	2699.2	2727.7
22.5°	2734.0	2737.2	2708.7	2678.6	2673.9	2675.5	2673.9	2683.4	2710.3	2738.8
25°	2735.6	2740.4	2718.2	2694.5	2702.4	2705.5	2702.4	2704.0	2724.5	2749.8
27.5°	2759.3	2765.7	2745.1	2724.5	2729.3	2727.7	2732.4	2737.2	2753.0	2778.3
30°	2808.4	2813.1	2795.7	2775.2	2772.0	2760.9	2775.2	2791.0	2808.4	2830.5
32.5°	2889.1	2898.6	2876.4	2854.3	2840.0	2833.7	2844.8	2871.7	2895.4	2919.1
35°	3023.6	3029.9	3009.3	2968.2	2942.9	2942.9	2952.4	2987.2	3025.1	3055.2
37.5°	3213.4	3221.3	3184.9	3135.9	3097.9	3097.9	3110.6	3147.0	3203.9	3246.7
40°	3444.4	3455.5	3409.6	3359.0	3322.6	3316.3	3332.1	3373.2	3427.0	3480.8
42.5°	3722.9	3735.5	3675.4	3631.1	3602.6	3602.6	3610.6	3648.5	3697.6	3764.0
45°	4078.9	4101.0	4018.8	3974.5	3947.6	3953.9	3958.6	3991.9	4036.2	4112.1
47.5°	4502.9	4525.1	4438.0	4392.2	4387.4	4417.5	4398.5	4422.2	4445.9	4533.0
50°	4983.9	5021.9	4961.7	4958.6	4968.1	5023.4	4979.1	4991.8	4964.9	5020.3
52.5°	5572.5	5627.8	5616.8	5635.8	5741.8	5855.7	5754.4	5710.1	5608.9	5626.3
55°	6286.0	6369.9	6385.7	6499.6	6740.1	6972.7	6757.5	6578.7	6363.6	6324.0
57.5°	7097.7	7164.1	7240.1	7472.7	7922.0	8335.0	7922.0	7526.5	7187.9	7107.2
60°	7971.1	8053.3	8126.1	8469.5	9137.1	9717.8	9124.5	8496.4	8048.6	7939.4
62.5°	8909.3	9015.3	9065.9	9447.2	10225.7	10918.7	10236.8	9475.7	8978.9	8861.8
65°	9809.6	9896.6	9953.5	10360.2	11103.8	11798.4	11154.4	10404.5	9893.4	9740.0
67.5°	10228.8	10276.3	10415.5	10876.0	11660.7	12453.4	11793.6	10925.0	10353.8	10084.9
70°	9615.0	9518.4	9853.9	10591.2	11727.2	12855.3	11879.1	10569.0	9869.7	9433.0
72.5°	7430.0	7263.8	7846.1	9107.1	10967.7	12599.0	11043.7	9178.3	8208.4	7322.4
75°	4042.5	3854.2	4658.0	6252.8	8746.3	10920.3	8947.3	6431.6	5186.4	4012.4
77.5°	1140.8	1069.6	1718.3	3025.1	5260.8	7667.3	5463.3	3091.6	2037.9	1208.8
80°	349.7	338.6	458.8	911.3	2234.1	3672.3	2147.0	922.4	583.8	368.6
82.5°	207.3	189.9	227.8	332.3	569.6	1153.4	553.8	346.5	278.5	186.7
85°	118.7	110.8	134.5	161.4	191.4	245.2	159.8	164.5	148.7	99.7
87.5°	49.0	44.3	52.2	50.6	44.3	57.0	42.7	50.6	60.1	39.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
2776.7  
2767.2  
2732.4  
2694.5  
2677.1  
2677.1  
2688.1  
2708.7  
2729.3  
2738.8  
2748.3  
2772.0  
2825.8  
2909.6  
3044.1  
3230.8  
3463.4  
3759.3  
4108.9  
4507.7  
4987.1  
5567.7  
6262.3  
7050.2  
7844.5  
8766.9  
9664.0  
10088.0  
9537.4  
7542.3  
4273.5  
1343.3  
389.2  
202.5  
104.4  
36.4  
0.0

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