

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: P951130

Luminaire Tested: **GALN-SB5B-850-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951130  
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-850-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

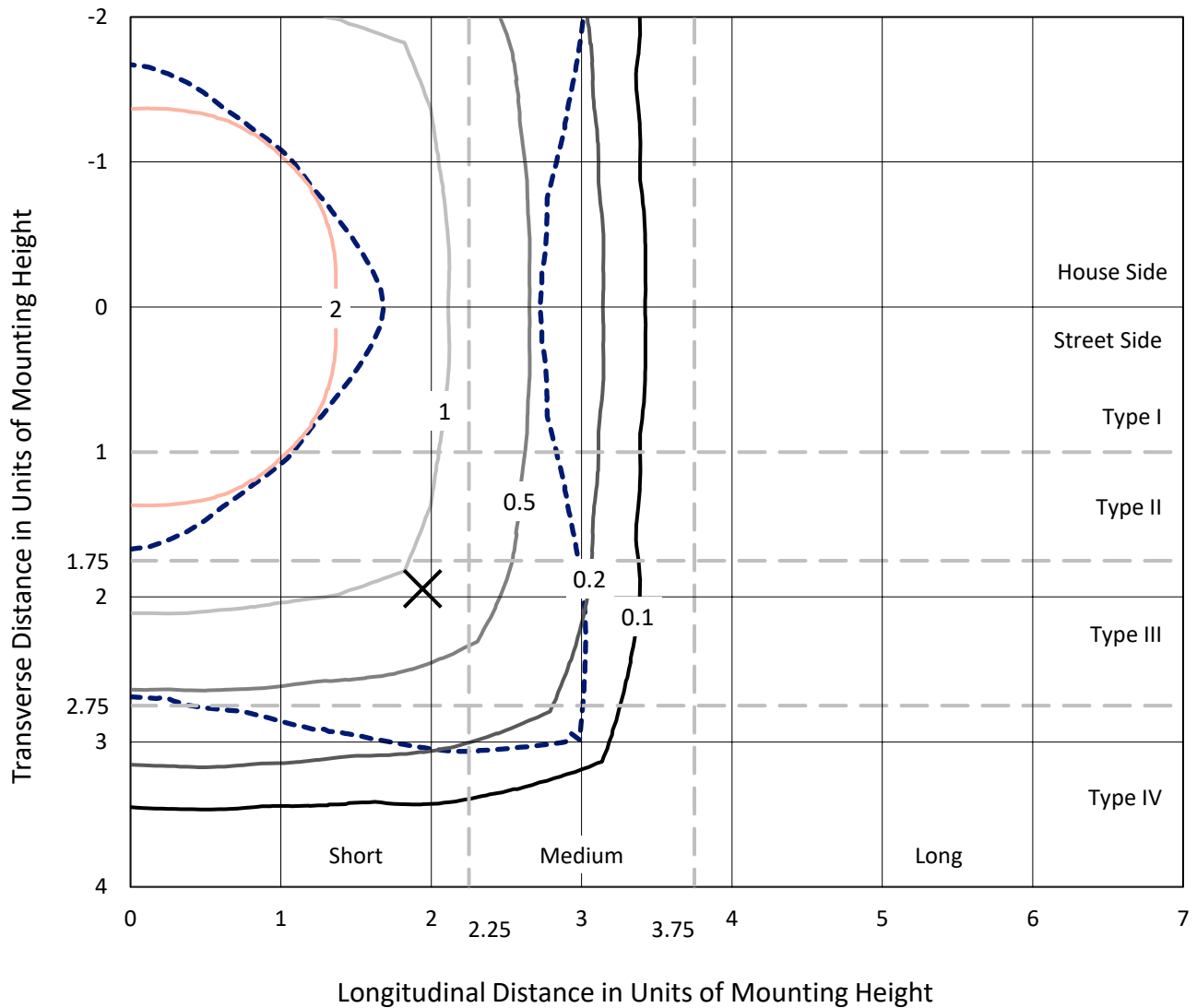
Lumens per Lamp: N/A  
Luminaire Lumens: 28494 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

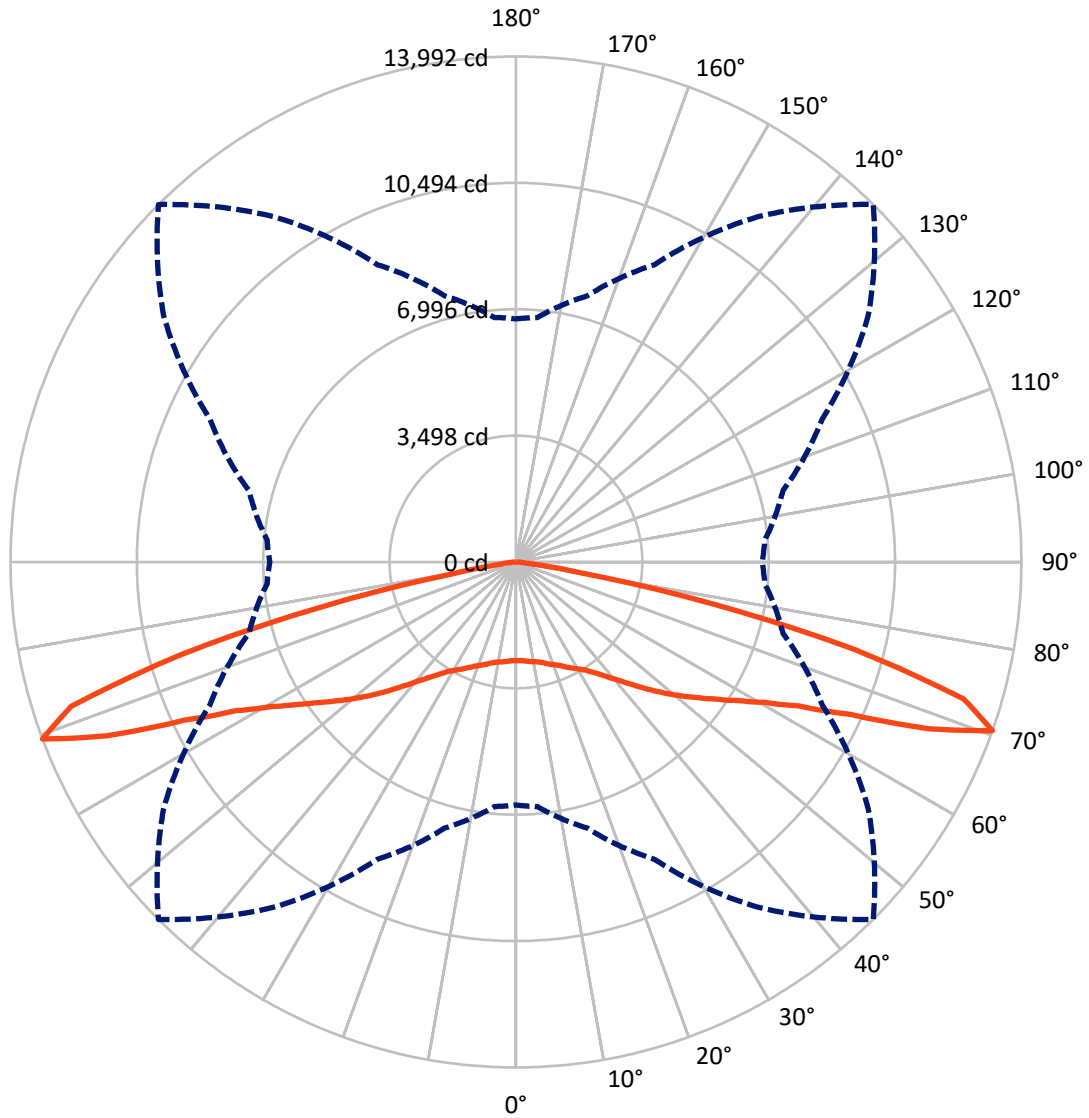
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	14247.0	0.0	14247.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14247.0	0.0	14247.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28494.0	0.0	28494.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.2	0.9
10°-20°	822.2	2.9
20°-30°	1469.4	5.2
30°-40°	2382.0	8.4
40°-50°	3879.8	13.6
50°-60°	5915.4	20.8
60°-70°	8800.2	30.9
70°-80°	4796.4	16.8
80°-90°	163.3	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°	28494.0	100.0
0°-180°	28494.0	100.0



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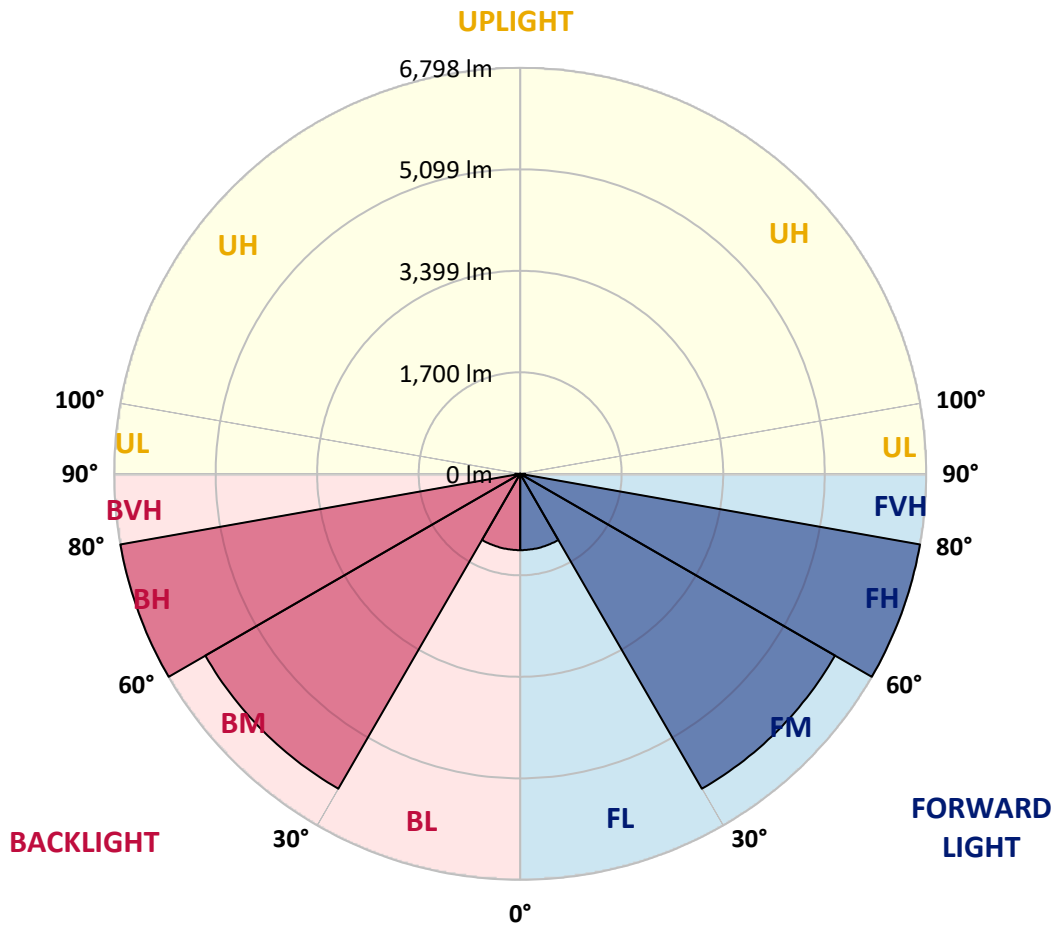
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.4	4.5			
FM (30°-60°)	6088.6	21.4			
FH (60°-80°)	6798.3	23.9			G3/7500
FVH (80°-90°)	81.7	0.3			G1/100
BL (0°-30°)	1278.4	4.5	B3/2500		
BM (30°-60°)	6088.6	21.4	B4/8500		
BH (60°-80°)	6798.3	23.9	B5		G3/7500
BVH (80°-90°)	81.7	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°	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4
2.5°	2742.3	2745.2	2739.4	2736.6	2733.7	2729.4	2730.9	2738.0	2743.7	2742.3
5°	2765.2	2768.1	2763.8	2762.3	2756.6	2755.2	2755.2	2762.3	2766.6	2763.8
7.5°	2790.9	2795.2	2788.1	2786.7	2783.8	2780.9	2779.5	2786.7	2790.9	2790.9
10°	2815.3	2819.6	2813.8	2809.5	2806.7	2806.7	2803.8	2809.5	2816.7	2815.3
12.5°	2841.0	2843.9	2838.1	2835.3	2835.3	2839.6	2835.3	2838.1	2843.9	2841.0
15°	2872.5	2873.9	2872.5	2876.8	2883.9	2898.2	2885.4	2882.5	2885.4	2878.2
17.5°	2915.4	2918.3	2924.0	2934.0	2944.0	2969.8	2946.9	2939.7	2939.7	2925.4
20°	2968.3	2972.6	2981.2	2998.4	3011.2	3035.6	3012.7	3002.7	2998.4	2979.8
22.5°	3024.1	3031.3	3044.1	3067.0	3089.9	3112.8	3089.9	3072.8	3059.9	3035.6
25°	3088.5	3097.1	3117.1	3154.3	3185.8	3218.7	3191.5	3157.2	3131.4	3097.1
27.5°	3180.0	3190.1	3214.4	3260.2	3300.2	3328.8	3303.1	3258.7	3223.0	3181.5
30°	3308.8	3318.8	3347.4	3396.1	3423.2	3441.8	3424.7	3390.3	3347.4	3300.2
32.5°	3474.7	3487.6	3519.1	3564.9	3570.6	3573.4	3567.7	3550.5	3519.1	3461.9
35°	3685.0	3699.3	3735.1	3772.3	3766.6	3772.3	3763.7	3758.0	3735.1	3669.3
37.5°	3942.5	3959.7	3996.9	4025.5	4011.2	4004.0	4005.5	4006.9	3994.0	3921.1
40°	4241.5	4264.4	4291.6	4321.6	4297.3	4275.8	4290.1	4301.6	4290.1	4215.7
42.5°	4549.1	4582.0	4610.6	4653.5	4633.5	4606.3	4626.3	4639.2	4614.9	4534.7
45°	4890.9	4922.4	4959.6	5024.0	5009.7	4981.1	5009.7	5012.5	4971.1	4876.6
47.5°	5244.3	5277.2	5333.0	5418.8	5413.1	5381.6	5418.8	5398.8	5345.8	5232.8
50°	5579.0	5624.8	5710.6	5830.8	5842.2	5803.6	5853.7	5815.1	5726.4	5584.7
52.5°	5893.7	5942.4	6078.3	6241.4	6282.8	6232.8	6300.0	6232.8	6099.7	5918.1
55°	6224.2	6278.5	6440.2	6653.3	6736.3	6699.1	6762.1	6660.5	6471.7	6251.4
57.5°	6613.3	6646.2	6839.3	7092.5	7232.7	7241.3	7269.9	7098.2	6869.4	6619.0
60°	7035.3	7081.1	7291.4	7594.6	7816.4	7887.9	7857.8	7603.2	7337.1	7049.6
62.5°	7576.0	7626.1	7877.9	8241.2	8591.7	8769.1	8651.8	8282.7	7953.7	7608.9
65°	8023.8	8079.6	8534.5	9182.5	9820.5	10176.7	9882.0	9202.5	8610.3	8123.9
67.5°	7699.1	7767.7	8481.5	9671.7	11258.2	12321.1	11312.5	9817.7	8657.5	7998.0
70°	6729.2	6793.5	7626.1	9080.9	11663.0	13991.9	11906.2	9348.4	7653.3	6915.1
72.5°	4467.5	4674.9	5517.5	7262.7	10414.2	12947.6	10517.2	7115.4	5118.4	4457.5
75°	1482.0	1648.0	2223.0	3765.1	6975.2	9683.2	6640.5	3331.7	1761.0	1267.4
77.5°	373.4	430.6	593.7	1077.2	2782.4	5513.2	2504.8	879.8	479.2	334.7
80°	181.7	200.3	286.1	359.1	696.7	1752.4	653.7	337.6	226.0	174.5
82.5°	100.1	101.6	161.6	203.1	258.9	453.5	268.9	197.4	130.2	105.9
85°	61.5	60.1	85.8	108.7	108.7	161.6	128.7	108.7	74.4	65.8
87.5°	24.3	24.3	31.5	34.3	30.0	41.5	32.9	35.8	28.6	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2729.4
2743.7
2765.2
2790.9
2815.3
2839.6
2878.2
2925.4
2979.8
3034.1
3095.6
3180.0
3300.2
3463.3
3669.3
3921.1
4215.7
4540.5
4886.7
5225.7
5581.9
5900.9
6221.3
6584.7
7003.8
7548.8
8043.8
7899.3
6816.4
4313.0
1198.8
299.0
160.2
105.9
68.7
28.6
0.0

OF REPORT)