

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: P949577

Luminaire Tested: **GALN-SB4B-750-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949577  
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-SB4B-750-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

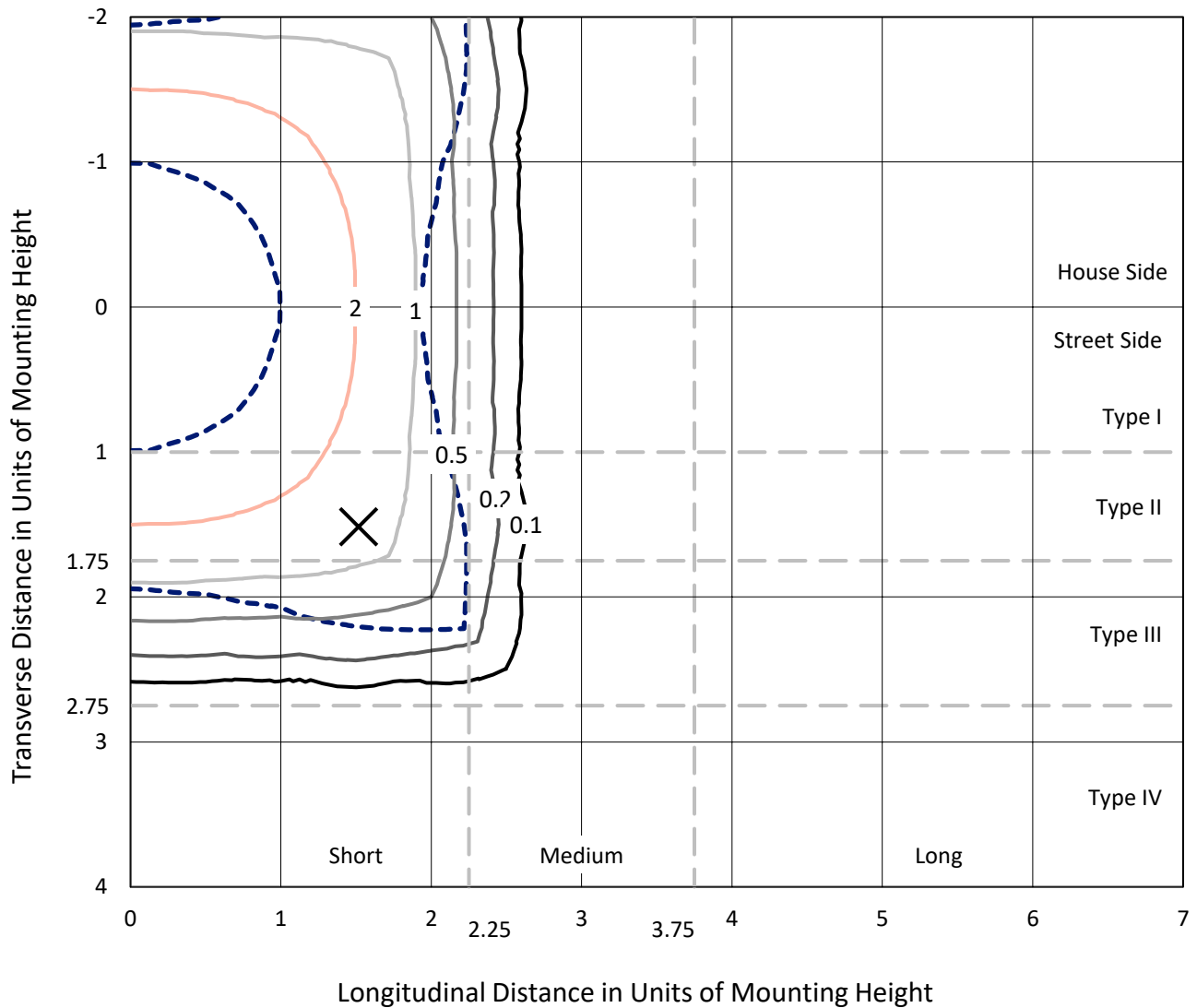
Lumens per Lamp: N/A  
Luminaire Lumens: 25020 lumens  
Efficiency: N/A  
Efficacy: 170.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

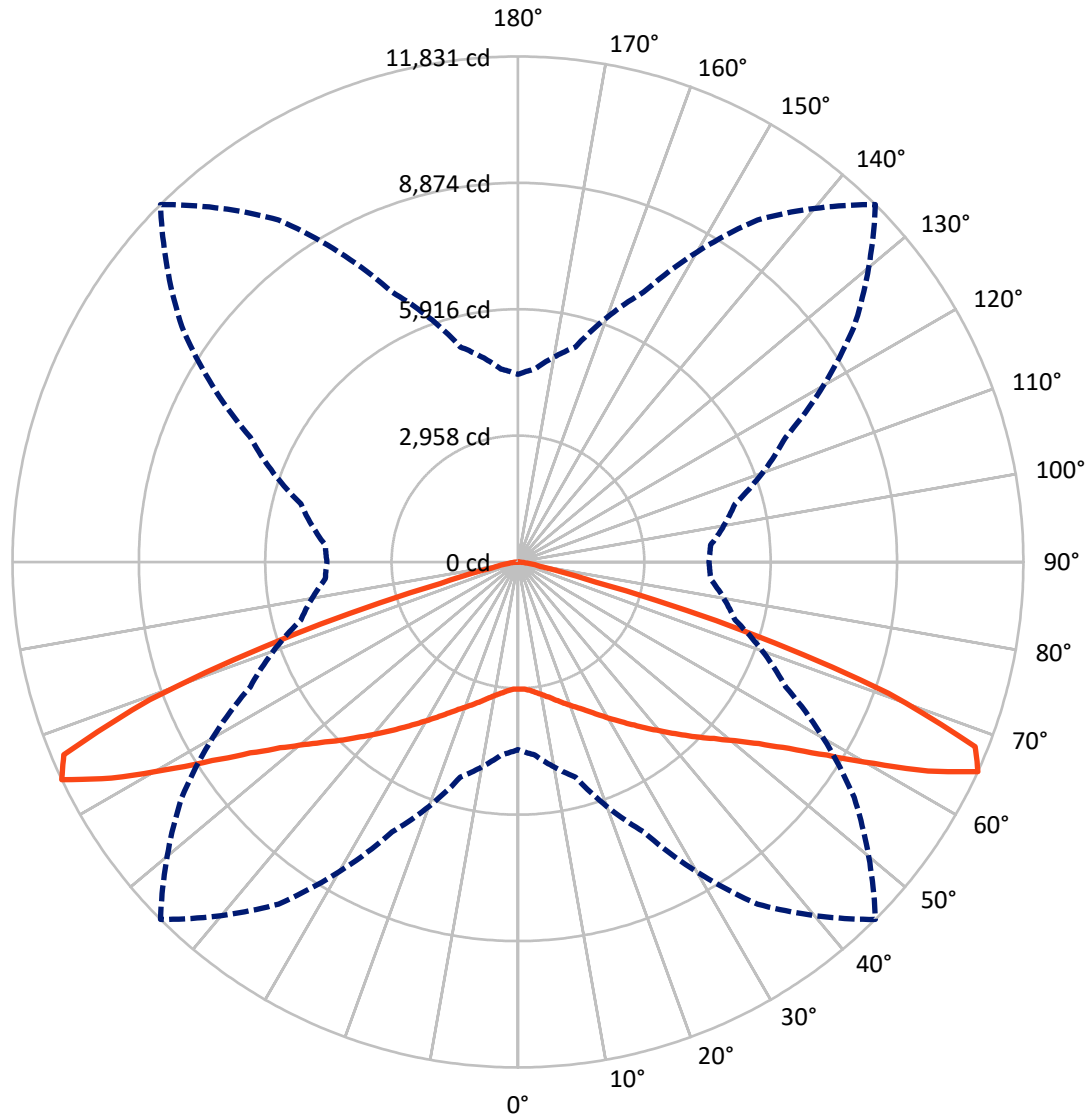
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	12510.0	0.0	12510.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12510.0	0.0	12510.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25020.0	0.0	25020.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.9	1.2
10°-20°	958.9	3.8
20°-30°	1810.5	7.2
30°-40°	2964.6	11.8
40°-50°	4596.7	18.4
50°-60°	6790.3	27.1
60°-70°	6463.7	25.8
70°-80°	1043.0	4.2
80°-90°	98.3	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°	25020.0	100.0
0°-180°	25020.0	100.0



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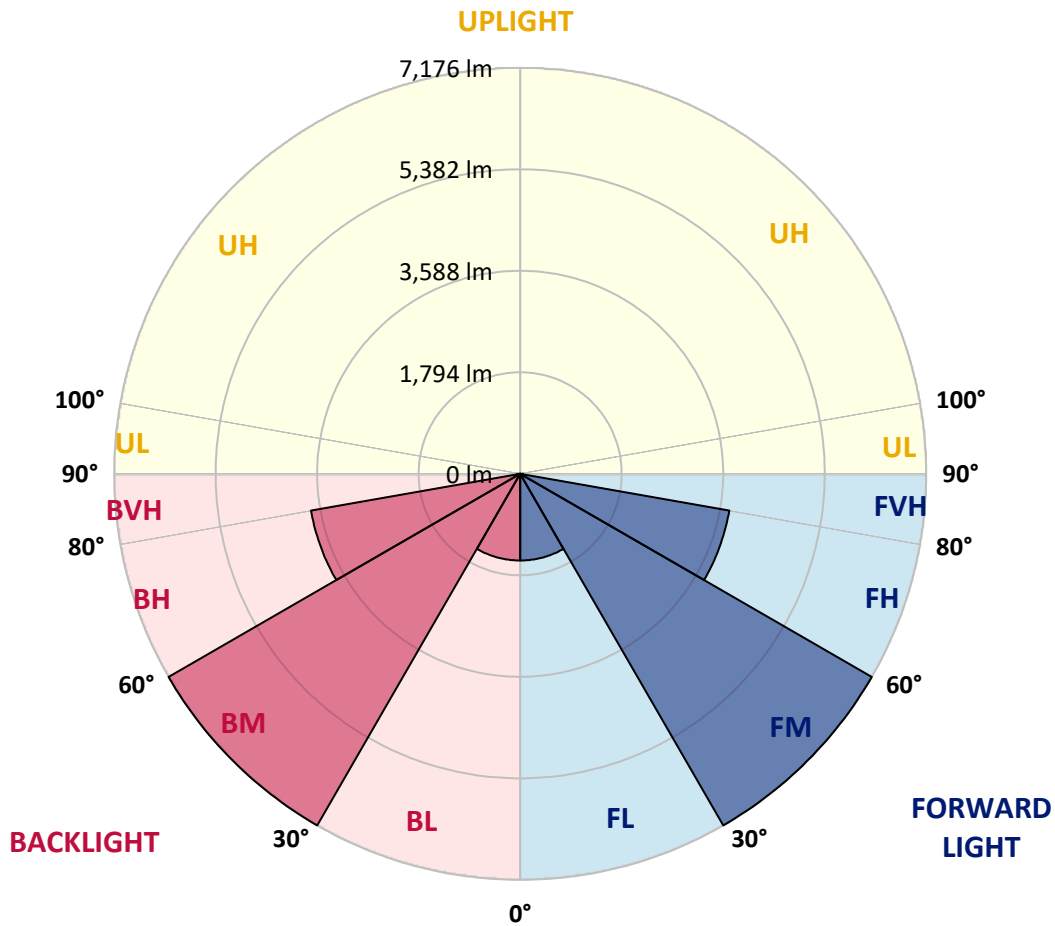
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.6	6.1			
FM (30°-60°)	7175.8	28.7			
FH (60°-80°)	3753.4	15.0			G2/5000
FVH (80°-90°)	49.2	0.2			G1/100
BL (0°-30°)	1531.6	6.1	B3/2500		
BM (30°-60°)	7175.8	28.7	B4/8500		
BH (60°-80°)	3753.4	15.0	B4/5000		G2/5000
BVH (80°-90°)	49.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6
2.5°	2997.7	2987.7	2995.2	2988.9	2983.9	2978.9	2981.4	2990.2	2993.9	2995.2
5°	3037.9	3029.1	3032.9	3032.9	3024.1	3021.6	3022.8	3029.1	3036.6	3036.6
7.5°	3103.2	3094.4	3103.2	3098.1	3090.6	3088.1	3086.8	3091.9	3103.2	3103.2
10°	3182.2	3172.2	3177.2	3174.7	3165.9	3162.2	3160.9	3168.4	3178.5	3177.2
12.5°	3268.9	3257.6	3263.8	3256.3	3253.8	3250.0	3250.0	3248.8	3255.1	3250.0
15°	3365.5	3358.0	3360.5	3355.5	3359.2	3356.7	3346.7	3341.7	3344.2	3336.7
17.5°	3479.8	3462.2	3471.0	3468.5	3468.5	3473.5	3457.2	3450.9	3455.9	3448.4
20°	3611.6	3594.0	3597.8	3592.7	3586.5	3591.5	3571.4	3576.4	3580.2	3575.2
22.5°	3755.9	3733.3	3732.1	3734.6	3720.8	3722.0	3708.2	3720.8	3728.3	3714.5
25°	3904.1	3880.2	3896.5	3890.3	3872.7	3876.4	3866.4	3879.0	3885.2	3867.7
27.5°	4061.0	4044.7	4059.7	4063.5	4042.1	4057.2	4042.1	4053.4	4059.7	4033.4
30°	4244.3	4227.9	4241.7	4251.8	4226.7	4250.5	4238.0	4245.5	4246.8	4215.4
32.5°	4443.8	4418.7	4453.9	4458.9	4431.3	4460.2	4443.8	4453.9	4460.2	4417.5
35°	4687.4	4656.0	4696.2	4689.9	4666.0	4689.9	4674.8	4689.9	4705.0	4653.5
37.5°	4949.7	4917.1	4959.8	4948.5	4925.9	4942.2	4933.4	4943.5	4967.3	4912.1
40°	5238.5	5198.3	5256.0	5236.0	5214.6	5212.1	5217.1	5223.4	5254.8	5193.3
42.5°	5547.3	5504.6	5591.2	5559.8	5529.7	5509.6	5525.9	5538.5	5568.6	5499.6
45°	5900.0	5851.1	5964.0	5926.4	5878.7	5837.3	5863.6	5882.5	5926.4	5843.5
47.5°	6289.2	6233.9	6354.5	6343.2	6265.3	6174.9	6235.2	6289.2	6321.8	6221.4
50°	6669.5	6626.9	6785.0	6798.8	6703.4	6576.6	6660.8	6742.3	6751.1	6619.3
52.5°	7026.1	6983.4	7213.1	7299.7	7214.4	7063.7	7152.8	7235.7	7169.2	6998.4
55°	7311.0	7275.9	7568.4	7791.8	7820.7	7696.4	7749.1	7746.6	7528.2	7265.8
57.5°	7380.1	7375.0	7744.1	8217.4	8518.6	8533.7	8429.5	8163.4	7692.6	7339.9
60°	7066.2	7097.6	7604.8	8439.5	9243.0	9576.9	9126.2	8366.7	7505.6	7016.0
62.5°	6127.2	6210.1	6821.4	8168.4	9827.9	10777.0	9684.8	8057.9	6737.3	6098.4
65°	4391.1	4535.5	5210.9	6970.8	9775.2	11831.4	9604.5	6914.3	5261.1	4524.2
67.5°	1992.2	2139.1	2712.8	4772.7	8497.3	11545.2	8477.2	4823.0	2848.3	2146.6
70°	721.8	746.9	931.5	1910.6	5430.5	9199.0	5662.8	1924.4	990.5	795.9
72.5°	436.9	440.6	479.5	684.2	1886.8	5584.9	1967.1	706.7	489.6	434.3
75°	277.4	274.9	341.4	418.0	669.1	1884.2	701.7	418.0	340.2	310.1
77.5°	199.6	205.9	244.8	312.6	421.8	639.0	414.3	298.8	244.8	200.9
80°	149.4	153.1	178.3	243.5	296.3	397.9	263.6	220.9	184.5	125.5
82.5°	108.0	108.0	116.7	177.0	180.8	214.7	143.1	155.7	121.8	89.1
85°	64.0	62.8	72.8	105.4	94.1	79.1	65.3	95.4	76.6	55.2
87.5°	22.6	23.9	22.6	30.1	25.1	21.3	20.1	26.4	21.3	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2977.6
2995.2
3036.6
3099.4
3174.7
3252.5
3337.9
3454.7
3586.5
3728.3
3887.7
4053.4
4234.2
4446.4
4684.9
4946.0
5213.4
5536.0
5886.2
6255.3
6635.6
7003.5
7274.6
7317.3
6958.3
6060.7
4470.2
2115.2
785.8
441.9
312.6
204.6
129.3
89.1
54.0
17.6
0.0

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