

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: P950521

Luminaire Tested: **GALN-SB4D-950-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950521
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-SB4D-950-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29712 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

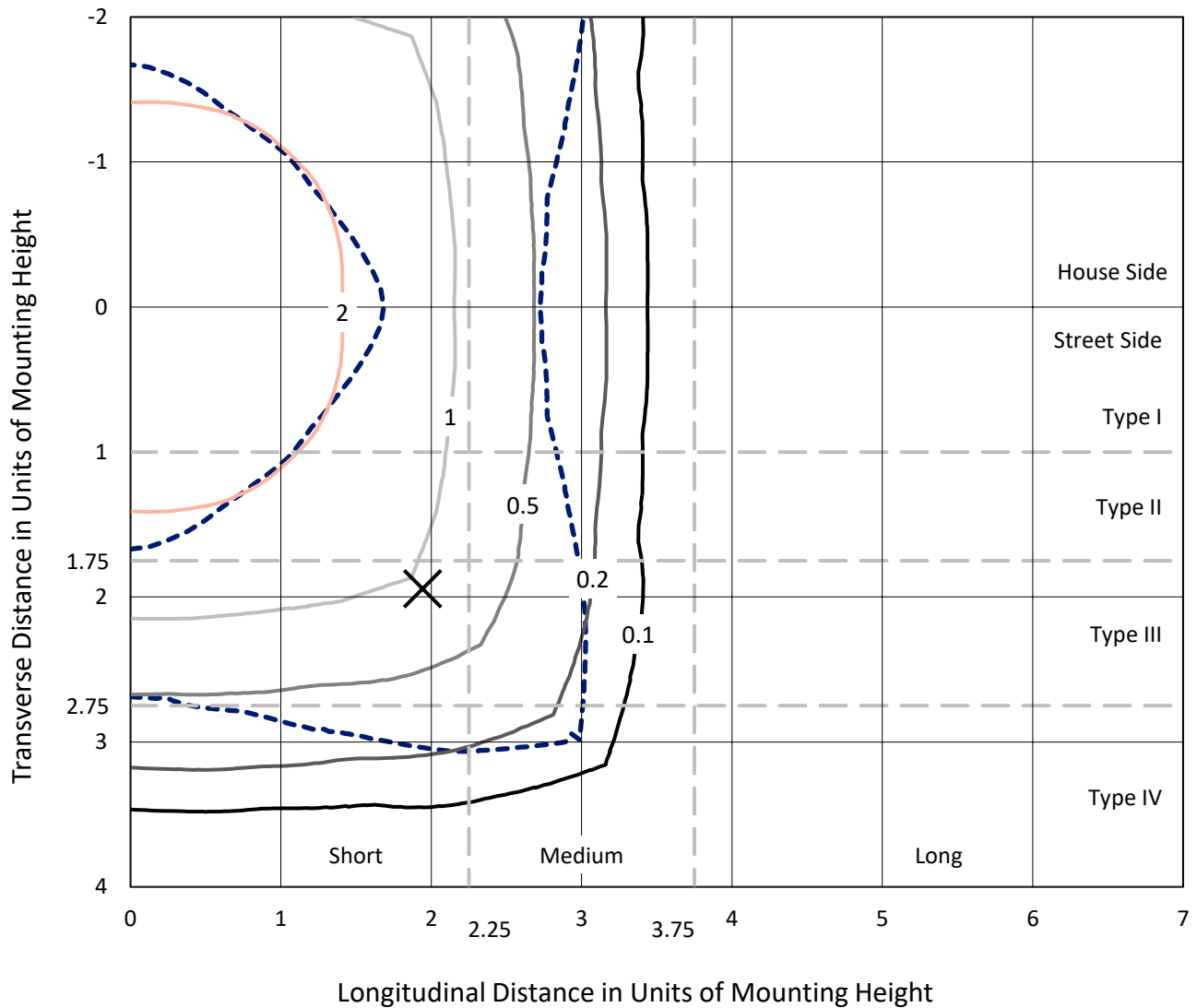
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

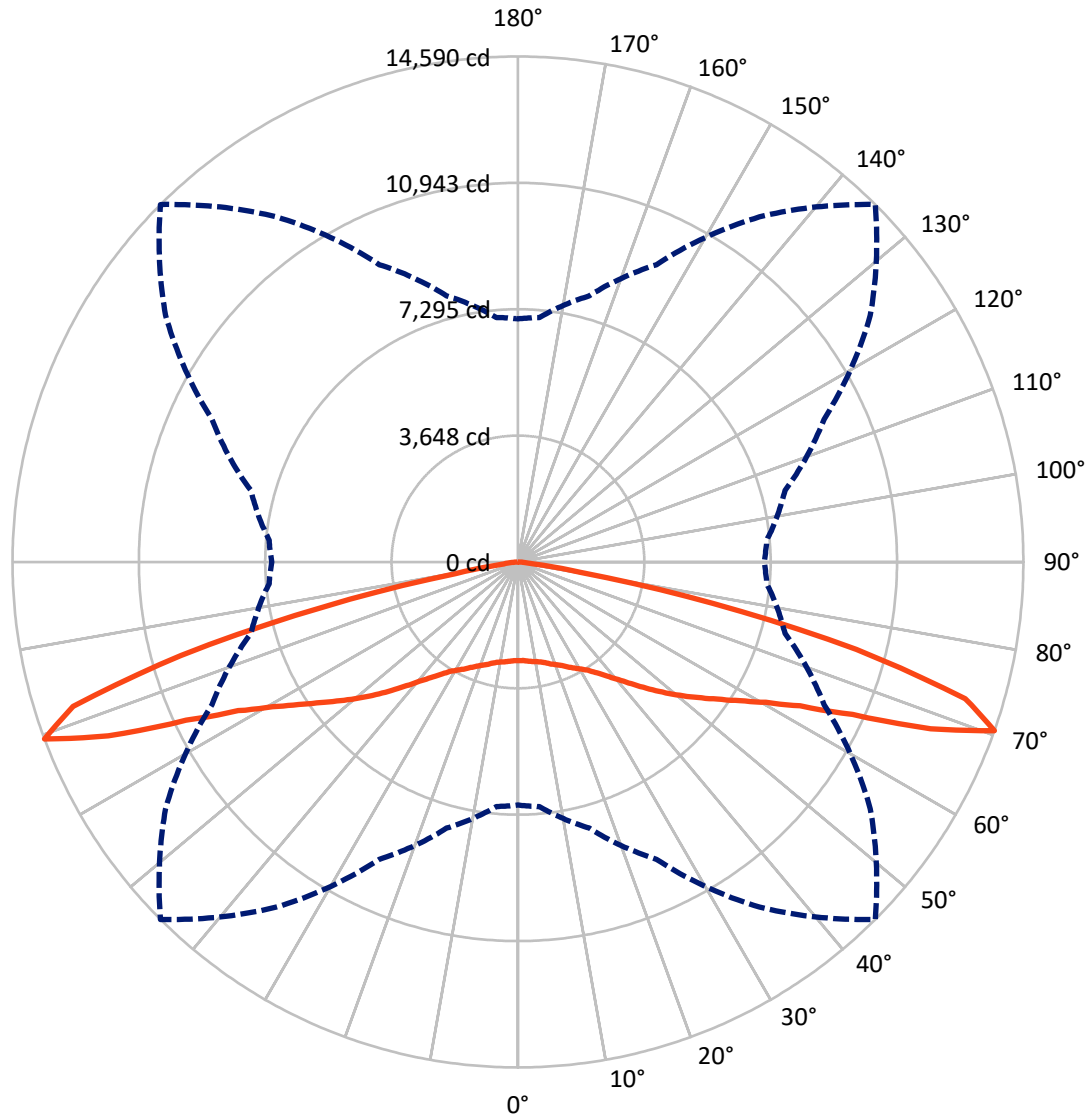
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	14856.0	0.0	14856.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14856.0	0.0	14856.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29712.0	0.0	29712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	0.9
10°-20°	857.4	2.9
20°-30°	1532.3	5.2
30°-40°	2483.8	8.4
40°-50°	4045.7	13.6
50°-60°	6168.3	20.8
60°-70°	9176.4	30.9
70°-80°	5001.4	16.8
80°-90°	170.3	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°	29712.0	100.0
0°-180°	29712.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950521

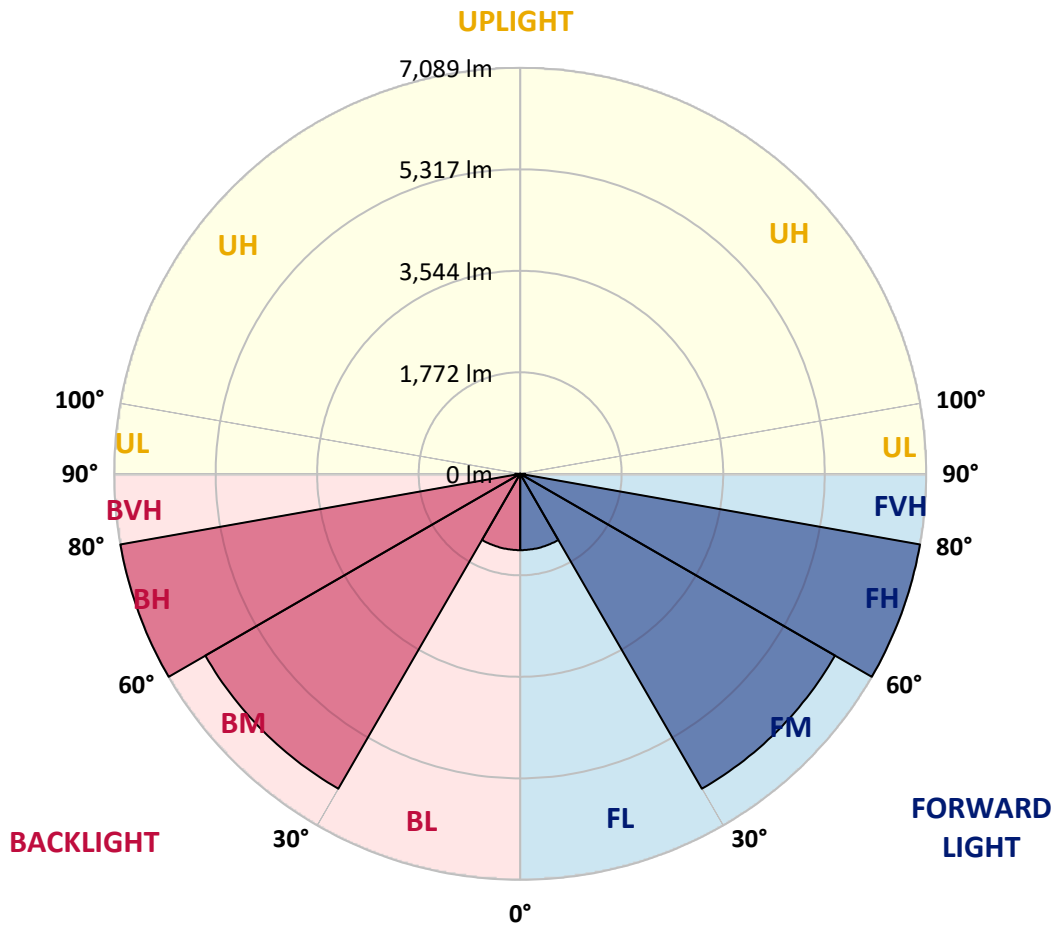
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.1	4.5			
FM (30°-60°)	6348.8	21.4			
FH (60°-80°)	7088.9	23.9			G3/7500
FVH (80°-90°)	85.2	0.3			G1/100
BL (0°-30°)	1333.1	4.5	B3/2500		
BM (30°-60°)	6348.8	21.4	B4/8500		
BH (60°-80°)	7088.9	23.9	B5		G3/7500
BVH (80°-90°)	85.2	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°	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1	2846.1
2.5°	2859.5	2862.5	2856.5	2853.6	2850.6	2846.1	2847.6	2855.1	2861.0	2859.5
5°	2883.4	2886.4	2881.9	2880.4	2874.4	2873.0	2873.0	2880.4	2884.9	2881.9
7.5°	2910.2	2914.7	2907.3	2905.8	2902.8	2899.8	2898.3	2905.8	2910.2	2910.2
10°	2935.6	2940.1	2934.1	2929.6	2926.7	2926.7	2923.7	2929.6	2937.1	2935.6
12.5°	2962.5	2965.4	2959.5	2956.5	2956.5	2961.0	2956.5	2959.5	2965.4	2962.5
15°	2995.3	2996.8	2995.3	2999.7	3007.2	3022.1	3008.7	3005.7	3008.7	3001.2
17.5°	3040.0	3043.0	3049.0	3059.4	3069.9	3096.7	3072.8	3065.4	3065.4	3050.5
20°	3095.2	3099.7	3108.6	3126.5	3140.0	3165.3	3141.5	3131.0	3126.5	3107.1
22.5°	3153.4	3160.8	3174.3	3198.1	3222.0	3245.9	3222.0	3204.1	3190.7	3165.3
25°	3220.5	3229.5	3250.3	3289.1	3321.9	3356.3	3327.9	3292.1	3265.3	3229.5
27.5°	3316.0	3326.4	3351.8	3399.5	3441.3	3471.1	3444.3	3398.0	3360.7	3317.5
30°	3450.2	3460.7	3490.5	3541.2	3569.6	3589.0	3571.1	3535.3	3490.5	3441.3
32.5°	3623.3	3636.7	3669.5	3717.2	3723.2	3726.2	3720.2	3702.3	3669.5	3609.8
35°	3842.5	3857.5	3894.7	3933.5	3927.6	3933.5	3924.6	3918.6	3894.7	3826.1
37.5°	4111.0	4128.9	4167.7	4197.6	4182.6	4175.2	4176.7	4178.2	4164.7	4088.7
40°	4422.8	4446.7	4475.0	4506.3	4481.0	4458.6	4473.5	4485.4	4473.5	4395.9
42.5°	4743.5	4777.8	4807.6	4852.4	4831.5	4803.2	4824.1	4837.5	4812.1	4728.6
45°	5100.0	5132.8	5171.6	5238.7	5223.8	5194.0	5223.8	5226.8	5183.5	5085.1
47.5°	5468.5	5502.8	5560.9	5650.4	5644.5	5611.7	5650.4	5629.6	5574.4	5456.5
50°	5817.5	5865.2	5954.7	6080.0	6092.0	6051.7	6103.9	6063.6	5971.1	5823.5
52.5°	6145.7	6196.4	6338.1	6508.1	6551.4	6499.2	6569.3	6499.2	6360.5	6171.0
55°	6490.2	6546.9	6715.5	6937.7	7024.3	6985.5	7051.1	6945.2	6748.3	6518.6
57.5°	6896.0	6930.3	7131.7	7395.7	7541.9	7550.8	7580.7	7401.7	7163.0	6901.9
60°	7336.0	7383.8	7603.0	7919.3	8150.5	8225.1	8193.7	7928.2	7650.8	7350.9
62.5°	7899.9	7952.1	8214.6	8593.5	8959.0	9143.9	9021.6	8636.8	8293.7	7934.2
65°	8366.8	8424.9	8899.3	9575.0	10240.3	10611.7	10304.4	9595.9	8978.3	8471.2
67.5°	8028.2	8099.8	8844.1	10085.2	11739.4	12847.7	11796.1	10237.3	9027.6	8339.9
70°	7016.8	7083.9	7952.1	9469.1	12161.6	14590.0	12415.2	9748.0	7980.4	7210.7
72.5°	4658.5	4874.8	5753.4	7573.2	10859.3	13501.1	10966.7	7419.6	5337.2	4648.0
75°	1545.4	1718.4	2318.1	3926.1	7273.4	10097.1	6924.3	3474.1	1836.2	1321.6
77.5°	389.3	449.0	619.0	1123.2	2901.3	5748.9	2611.9	917.4	499.7	349.1
80°	189.4	208.8	298.3	374.4	726.4	1827.3	681.7	352.0	235.7	182.0
82.5°	104.4	105.9	168.6	211.8	270.0	472.9	280.4	205.9	135.7	110.4
85°	64.1	62.7	89.5	113.4	113.4	168.6	134.3	113.4	77.6	68.6
87.5°	25.4	25.4	32.8	35.8	31.3	43.3	34.3	37.3	29.8	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2846.1
2861.0
2883.4
2910.2
2935.6
2961.0
3001.2
3050.5
3107.1
3163.8
3228.0
3316.0
3441.3
3611.3
3826.1
4088.7
4395.9
4734.6
5095.5
5449.1
5820.5
6153.1
6487.3
6866.1
7303.2
7871.5
8387.6
8237.0
7107.8
4497.4
1250.0
311.8
167.1
110.4
71.6
29.8
0.0

OF REPORT)