

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: P943550

Luminaire Tested: **GALN-SB8A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943550
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-SB8A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32968 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

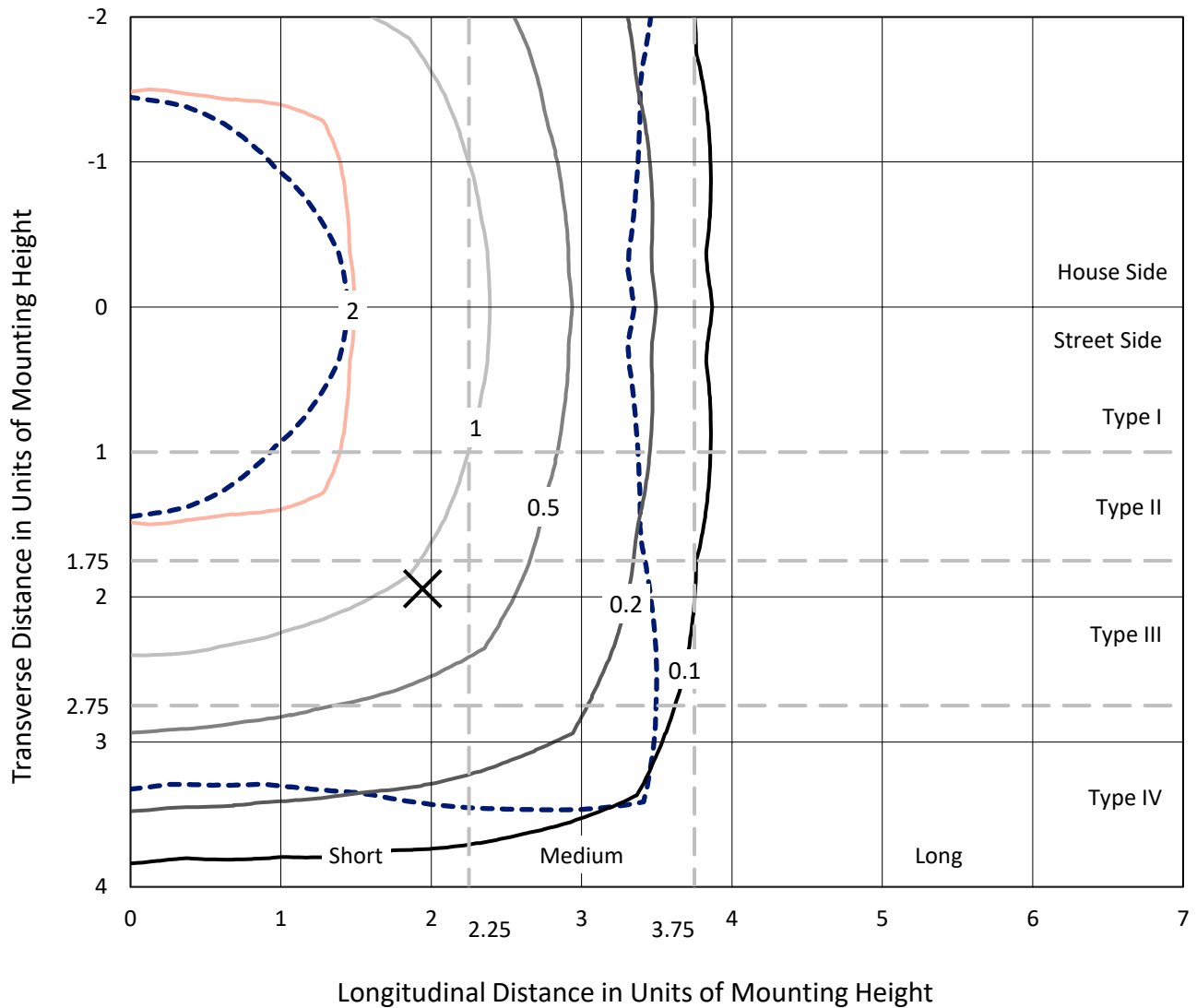
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

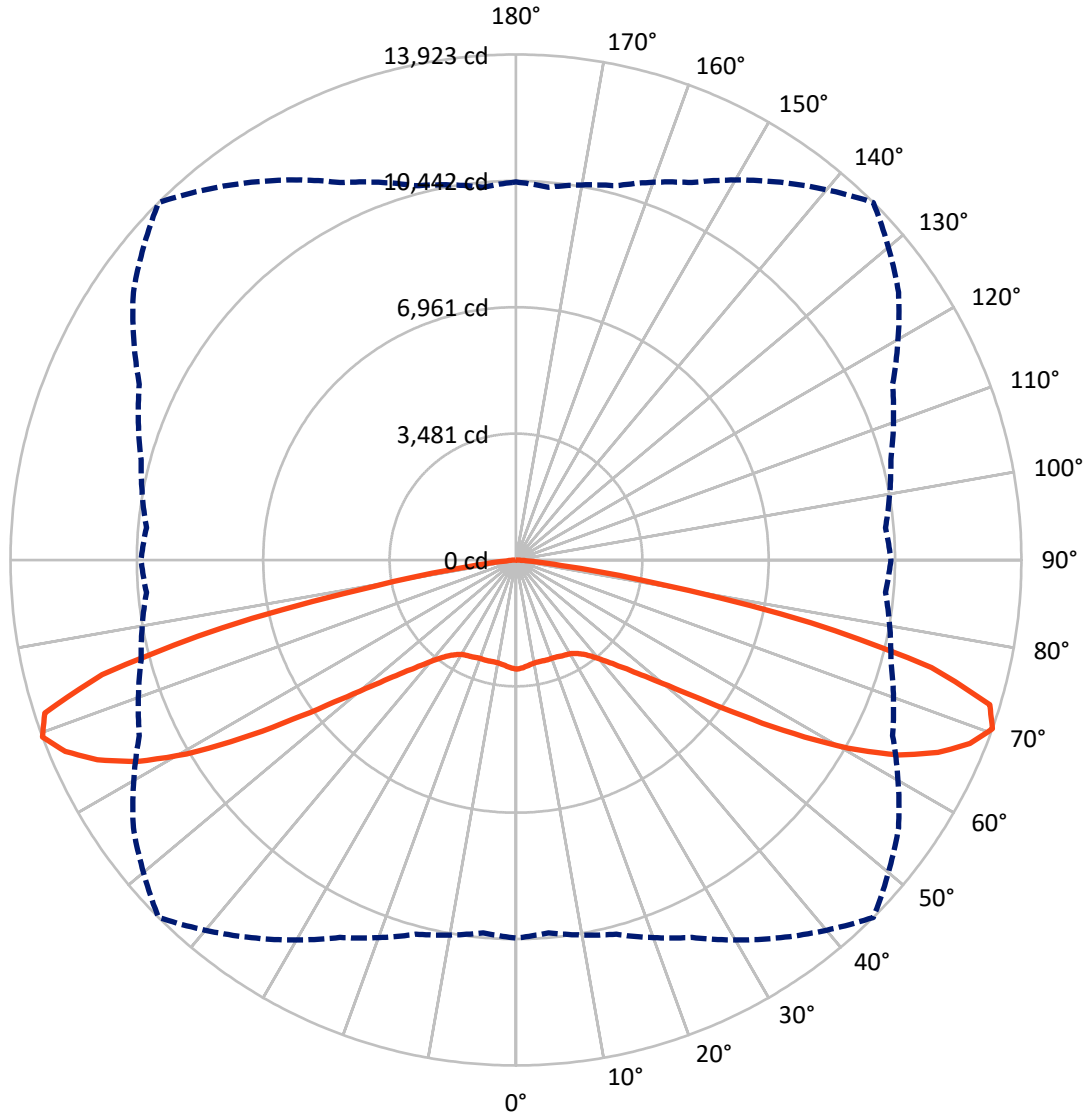
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	16484.0	0.0	16484.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16484.0	0.0	16484.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32968.0	0.0	32968.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	0.8
10°-20°	821.4	2.5
20°-30°	1367.0	4.1
30°-40°	2067.3	6.3
40°-50°	3435.3	10.4
50°-60°	6482.3	19.7
60°-70°	10945.7	33.2
70°-80°	7192.4	21.8
80°-90°	376.8	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°	32968.0	100.0
0°-180°	32968.0	100.0



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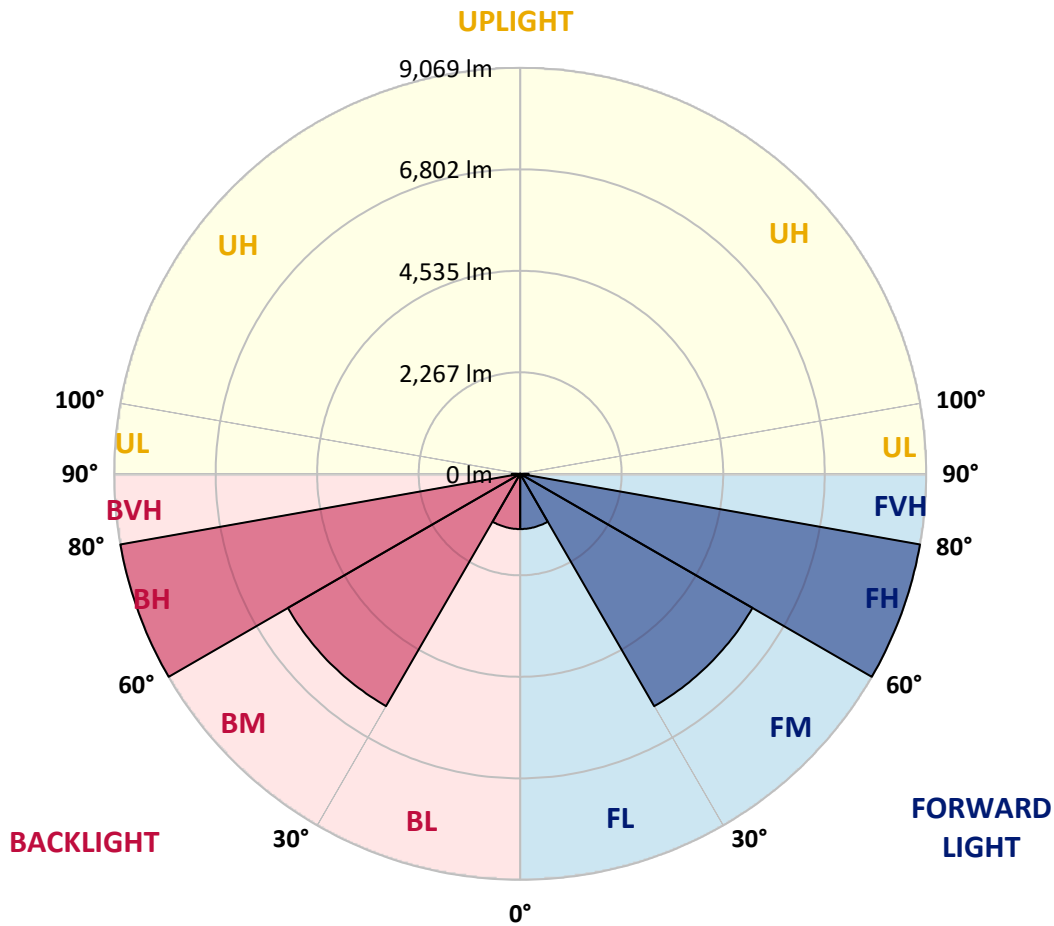
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.1	3.7			
FM (30°-60°)	5992.5	18.2			
FH (60°-80°)	9069.1	27.5			G4/12000
FVH (80°-90°)	188.4	0.6			G2/225
BL (0°-30°)	1234.1	3.7	B3/2500		
BM (30°-60°)	5992.5	18.2	B4/8500		
BH (60°-80°)	9069.1	27.5	B5		G4/12000
BVH (80°-90°)	188.4	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°	3007.3	3007.3	3007.3	3007.3	3007.3	3007.3	3007.3	3007.3	3007.3	3007.3
2.5°	2988.5	2997.1	2993.6	2986.8	2986.8	2981.6	2986.8	2990.2	2995.4	2998.8
5°	2949.1	2955.9	2954.2	2949.1	2950.8	2945.7	2949.1	2954.2	2957.7	2959.4
7.5°	2914.8	2921.7	2918.2	2909.7	2909.7	2904.5	2906.2	2911.4	2916.5	2918.2
10°	2906.2	2913.1	2902.8	2889.1	2884.0	2877.1	2878.8	2884.0	2894.2	2899.4
12.5°	2909.7	2914.8	2904.5	2884.0	2878.8	2872.0	2872.0	2877.1	2890.8	2897.7
15°	2920.0	2925.1	2909.7	2887.4	2882.3	2877.1	2875.4	2882.3	2897.7	2909.7
17.5°	2938.8	2943.9	2920.0	2889.1	2882.3	2884.0	2882.3	2887.4	2911.4	2933.7
20°	2955.9	2959.4	2926.8	2889.1	2882.3	2884.0	2882.3	2892.5	2923.4	2954.2
22.5°	2961.1	2964.5	2933.7	2901.1	2896.0	2897.7	2896.0	2906.2	2935.4	2966.2
25°	2962.8	2967.9	2943.9	2918.2	2926.8	2930.2	2926.8	2928.5	2950.8	2978.2
27.5°	2988.5	2995.4	2973.1	2950.8	2955.9	2954.2	2959.4	2964.5	2981.6	3009.1
30°	3041.6	3046.8	3027.9	3005.6	3002.2	2990.2	3005.6	3022.8	3041.6	3065.6
32.5°	3129.0	3139.3	3115.3	3091.3	3075.9	3069.0	3081.0	3110.2	3135.9	3161.6
35°	3274.7	3281.5	3259.2	3214.7	3187.3	3187.3	3197.6	3235.3	3276.4	3308.9
37.5°	3480.3	3488.9	3449.5	3396.3	3355.2	3355.2	3368.9	3408.3	3470.0	3516.3
40°	3730.5	3742.5	3692.8	3637.9	3598.5	3591.7	3608.8	3653.4	3711.6	3769.9
42.5°	4032.1	4045.8	3980.7	3932.7	3901.8	3901.8	3910.4	3951.5	4004.7	4076.6
45°	4417.6	4441.6	4352.5	4304.5	4275.4	4282.3	4287.4	4323.4	4371.4	4453.6
47.5°	4876.9	4900.9	4806.6	4756.9	4751.8	4784.3	4763.8	4789.5	4815.2	4909.4
50°	5397.8	5438.9	5373.8	5370.4	5380.7	5440.6	5392.7	5406.4	5377.2	5437.2
52.5°	6035.3	6095.2	6083.2	6103.8	6218.6	6342.0	6232.3	6184.3	6074.7	6093.5
55°	6808.1	6898.9	6916.0	7039.4	7299.9	7551.8	7318.7	7125.1	6892.0	6849.2
57.5°	7687.2	7759.1	7841.4	8093.3	8579.9	9027.2	8579.9	8151.5	7784.8	7697.4
60°	8633.1	8722.2	8801.0	9172.8	9896.0	10524.9	9882.3	9202.0	8717.0	8598.8
62.5°	9649.2	9764.0	9818.9	10231.8	11074.9	11825.5	11086.9	10262.7	9724.6	9597.8
65°	10624.2	10718.5	10780.2	11220.6	12026.0	12778.2	12080.8	11268.5	10715.1	10548.8
67.5°	11078.3	11129.7	11280.5	11779.2	12629.1	13487.6	12773.1	11832.3	11213.7	10922.4
70°	10413.5	10308.9	10672.2	11470.8	12701.1	13922.9	12865.6	11446.8	10689.4	10216.4
72.5°	8047.0	7867.1	8497.7	9863.4	11878.6	13645.3	11960.8	9940.5	8890.1	7930.5
75°	4378.2	4174.3	5044.8	6772.1	9472.7	11827.2	9690.3	6965.7	5617.1	4345.7
77.5°	1235.5	1158.4	1861.0	3276.4	5697.7	8304.0	5917.0	3348.3	2207.1	1309.2
80°	378.7	366.7	496.9	987.0	2419.6	3977.2	2325.3	999.0	632.3	399.3
82.5°	224.5	205.6	246.8	359.9	616.9	1249.2	599.8	375.3	301.6	202.2
85°	128.5	120.0	145.7	174.8	207.3	265.6	173.1	178.2	161.1	108.0
87.5°	53.1	48.0	56.5	54.8	48.0	61.7	46.3	54.8	65.1	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3007.3
2997.1
2959.4
2918.2
2899.4
2899.4
2911.4
2933.7
2955.9
2966.2
2976.5
3002.2
3060.5
3151.3
3296.9
3499.1
3751.0
4071.5
4450.2
4882.0
5401.2
6030.1
6782.4
7635.7
8496.0
9495.0
10466.6
10925.8
10329.5
8168.7
4628.4
1454.8
421.5
219.3
113.1
39.4
0.0

OF REPORT)