

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: P941850

Luminaire Tested: **GALN-SB5C-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941850
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-SB5C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34384 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

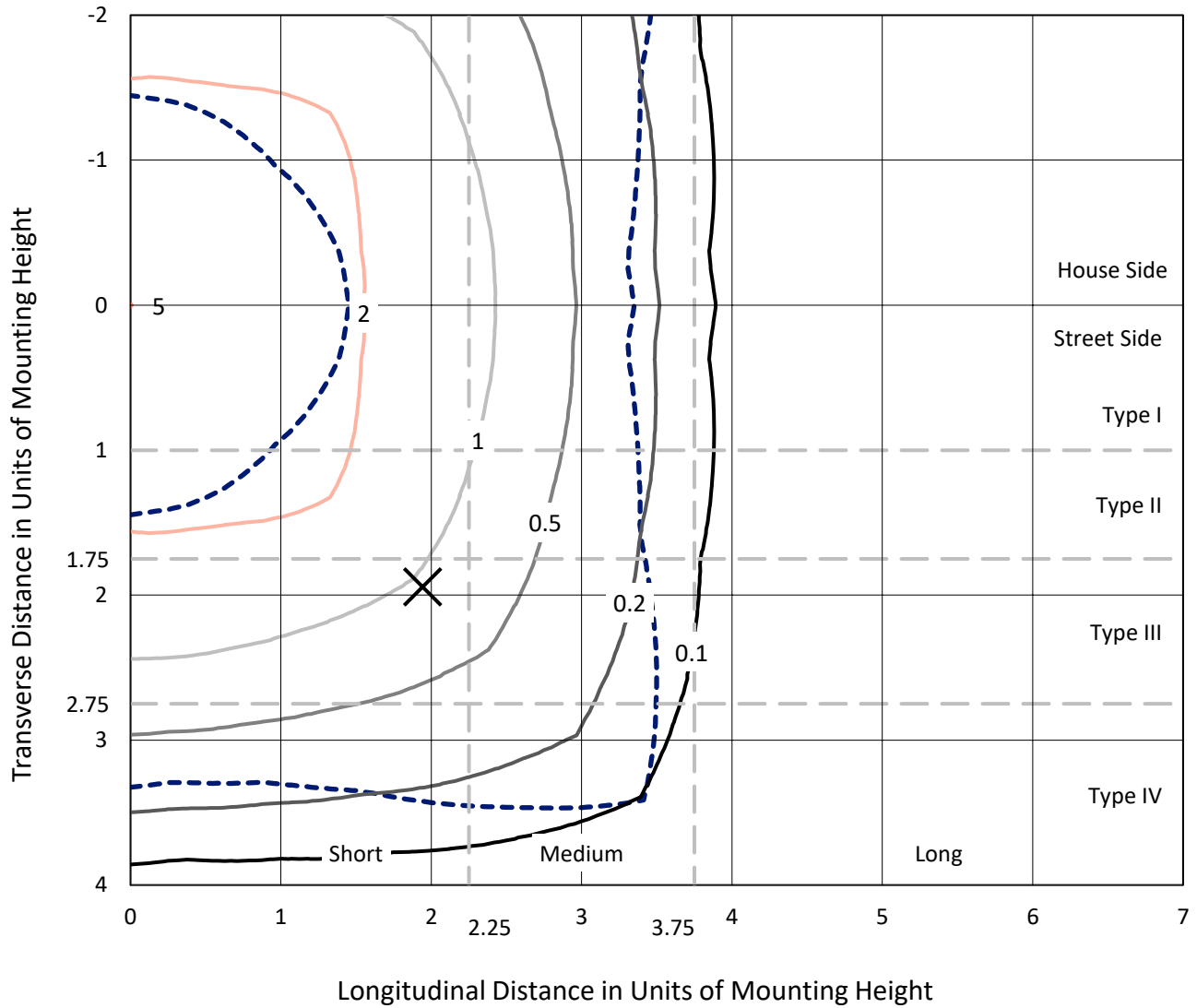
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

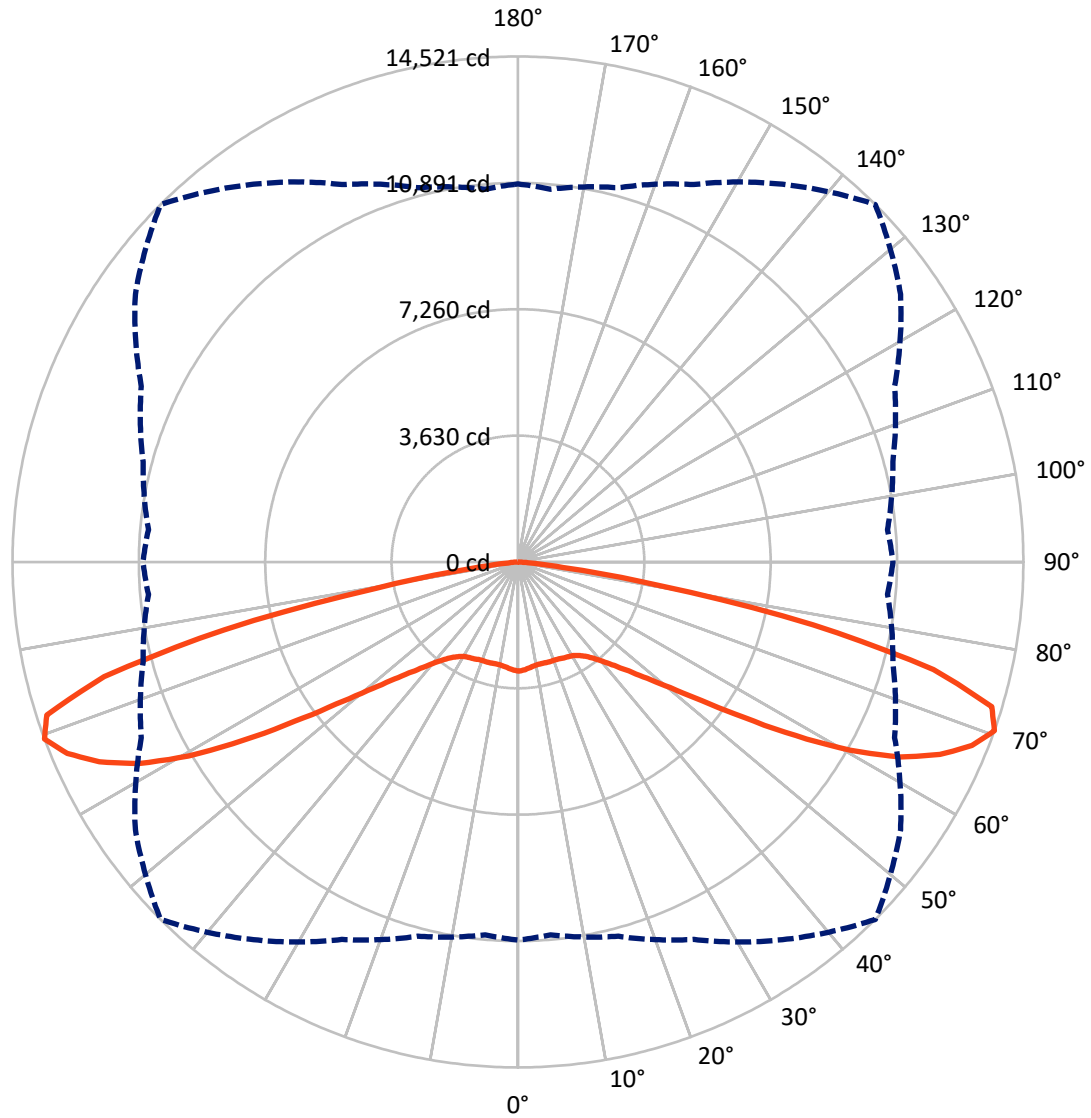
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	17192.0	0.0	17192.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17192.0	0.0	17192.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34384.0	0.0	34384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	0.8
10°-20°	856.7	2.5
20°-30°	1425.7	4.1
30°-40°	2156.1	6.3
40°-50°	3582.9	10.4
50°-60°	6760.7	19.7
60°-70°	11415.8	33.2
70°-80°	7501.4	21.8
80°-90°	393.0	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°	34384.0	100.0
0°-180°	34384.0	100.0

Coefficient of Utilization



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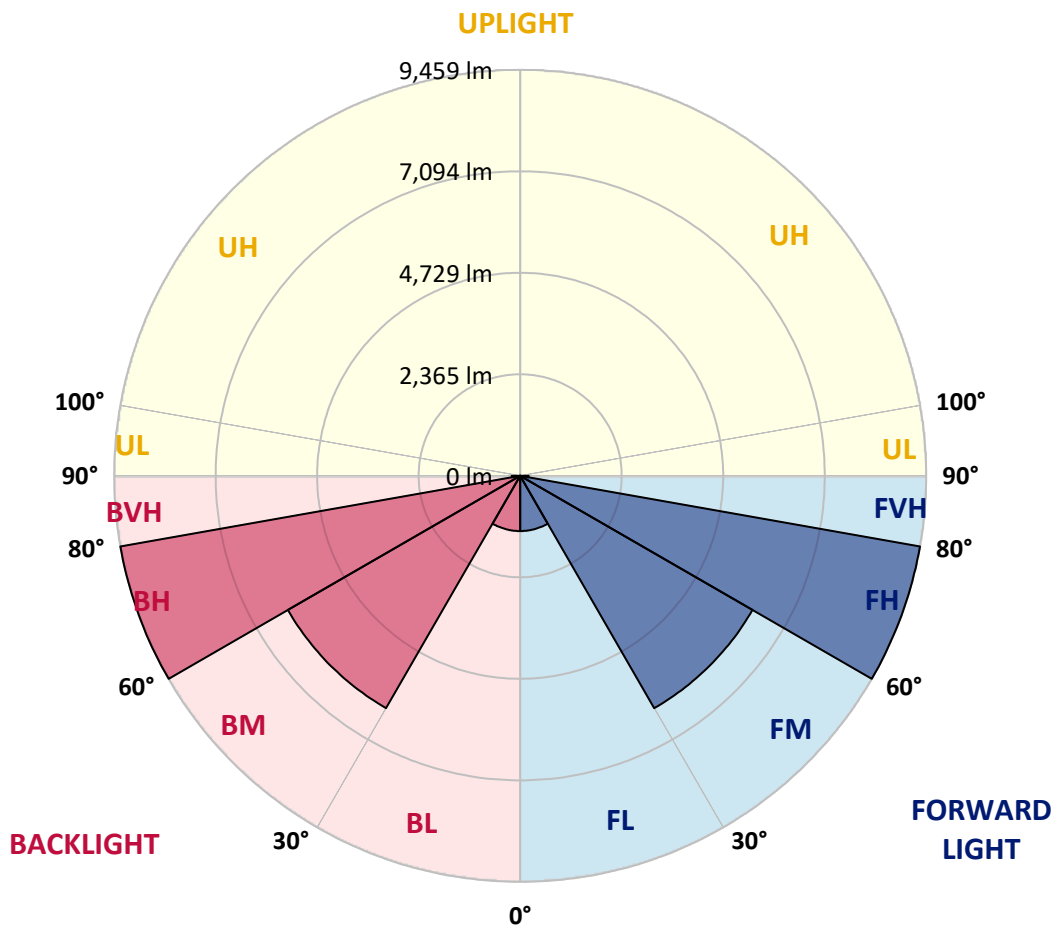
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.1	3.7			
FM (30°-60°)	6249.8	18.2			
FH (60°-80°)	9458.6	27.5			G4/12000
FVH (80°-90°)	196.5	0.6			G2/225
BL (0°-30°)	1287.1	3.7	B3/2500		
BM (30°-60°)	6249.8	18.2	B4/8500		
BH (60°-80°)	9458.6	27.5	B5		G4/12000
BVH (80°-90°)	196.5	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°	3136.5	3136.5	3136.5	3136.5	3136.5	3136.5	3136.5	3136.5	3136.5	3136.5
2.5°	3116.9	3125.8	3122.2	3115.1	3115.1	3109.7	3115.1	3118.6	3124.0	3127.6
5°	3075.7	3082.9	3081.1	3075.7	3077.5	3072.2	3075.7	3081.1	3084.7	3086.5
7.5°	3040.0	3047.2	3043.6	3034.6	3034.6	3029.3	3031.1	3036.4	3041.8	3043.6
10°	3031.1	3038.2	3027.5	3013.2	3007.8	3000.7	3002.5	3007.8	3018.6	3023.9
12.5°	3034.6	3040.0	3029.3	3007.8	3002.5	2995.3	2995.3	3000.7	3015.0	3022.1
15°	3045.4	3050.7	3034.6	3011.4	3006.0	3000.7	2998.9	3006.0	3022.1	3034.6
17.5°	3065.0	3070.4	3045.4	3013.2	3006.0	3007.8	3006.0	3011.4	3036.4	3059.7
20°	3082.9	3086.5	3052.5	3013.2	3006.0	3007.8	3006.0	3016.8	3048.9	3081.1
22.5°	3088.3	3091.8	3059.7	3025.7	3020.3	3022.1	3020.3	3031.1	3061.5	3093.6
25°	3090.0	3095.4	3070.4	3043.6	3052.5	3056.1	3052.5	3054.3	3077.5	3106.1
27.5°	3116.9	3124.0	3100.8	3077.5	3082.9	3081.1	3086.5	3091.8	3109.7	3138.3
30°	3172.3	3177.6	3158.0	3134.7	3131.2	3118.6	3134.7	3152.6	3172.3	3197.3
32.5°	3263.4	3274.1	3249.1	3224.1	3208.0	3200.9	3213.4	3243.7	3270.6	3297.4
35°	3415.3	3422.5	3399.2	3352.8	3324.2	3324.2	3334.9	3374.2	3417.1	3451.1
37.5°	3629.8	3638.7	3597.6	3542.2	3499.3	3499.3	3513.6	3554.7	3619.1	3667.3
40°	3890.7	3903.2	3851.4	3794.2	3753.1	3745.9	3763.8	3810.3	3871.0	3931.8
42.5°	4205.3	4219.5	4151.6	4101.6	4069.4	4069.4	4078.4	4121.3	4176.7	4251.7
45°	4607.4	4632.4	4539.5	4489.4	4459.0	4466.2	4471.5	4509.1	4559.1	4644.9
47.5°	5086.3	5111.4	5013.1	4961.2	4955.9	4989.8	4968.4	4995.2	5022.0	5120.3
50°	5629.6	5672.5	5604.6	5601.0	5611.8	5674.3	5624.3	5638.6	5608.2	5670.7
52.5°	6294.5	6357.0	6344.5	6366.0	6485.7	6614.4	6500.0	6450.0	6335.6	6355.2
55°	7100.5	7195.2	7213.1	7341.8	7613.4	7876.1	7633.1	7431.1	7188.1	7143.4
57.5°	8017.3	8092.4	8178.2	8440.9	8948.4	9414.9	8948.4	8501.6	8119.2	8028.0
60°	9003.8	9096.8	9179.0	9566.8	10321.0	10976.9	10306.7	9597.2	9091.4	8968.1
62.5°	10063.6	10183.4	10240.6	10671.3	11550.6	12333.4	11563.1	10703.5	10142.3	10010.0
65°	11080.6	11178.9	11243.2	11702.5	12542.5	13327.1	12599.7	11752.5	11175.3	11001.9
67.5°	11554.2	11607.8	11765.1	12285.1	13171.6	14066.9	13321.7	12340.5	11695.4	11391.5
70°	10860.7	10751.7	11130.6	11963.4	13246.6	14520.9	13418.2	11938.4	11148.5	10655.2
72.5°	8392.6	8205.0	8862.7	10287.0	12388.8	14231.4	12474.6	10367.5	9271.9	8271.1
75°	4566.3	4353.6	5261.5	7063.0	9879.6	12335.2	10106.5	7264.9	5858.4	4532.3
77.5°	1288.6	1208.1	1940.9	3417.1	5942.4	8660.7	6171.2	3492.2	2301.9	1365.4
80°	395.0	382.5	518.3	1029.4	2523.5	4148.1	2425.2	1041.9	659.5	416.4
82.5°	234.1	214.5	257.4	375.3	643.4	1302.9	625.5	391.4	314.5	210.9
85°	134.0	125.1	151.9	182.3	216.2	277.0	180.5	185.9	168.0	112.6
87.5°	55.4	50.0	59.0	57.2	50.0	64.3	48.3	57.2	67.9	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3136.5
3125.8
3086.5
3043.6
3023.9
3023.9
3036.4
3059.7
3082.9
3093.6
3104.3
3131.2
3191.9
3286.6
3438.5
3649.4
3912.2
4246.4
4641.3
5091.7
5633.2
6289.1
7073.7
7963.7
8860.9
9902.8
10916.1
11395.1
10773.2
8519.5
4827.2
1517.3
439.6
228.8
118.0
41.1
0.0

OF REPORT)