

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: P941860

Luminaire Tested: **GALN-SB5C-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941860
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-835-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35493 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

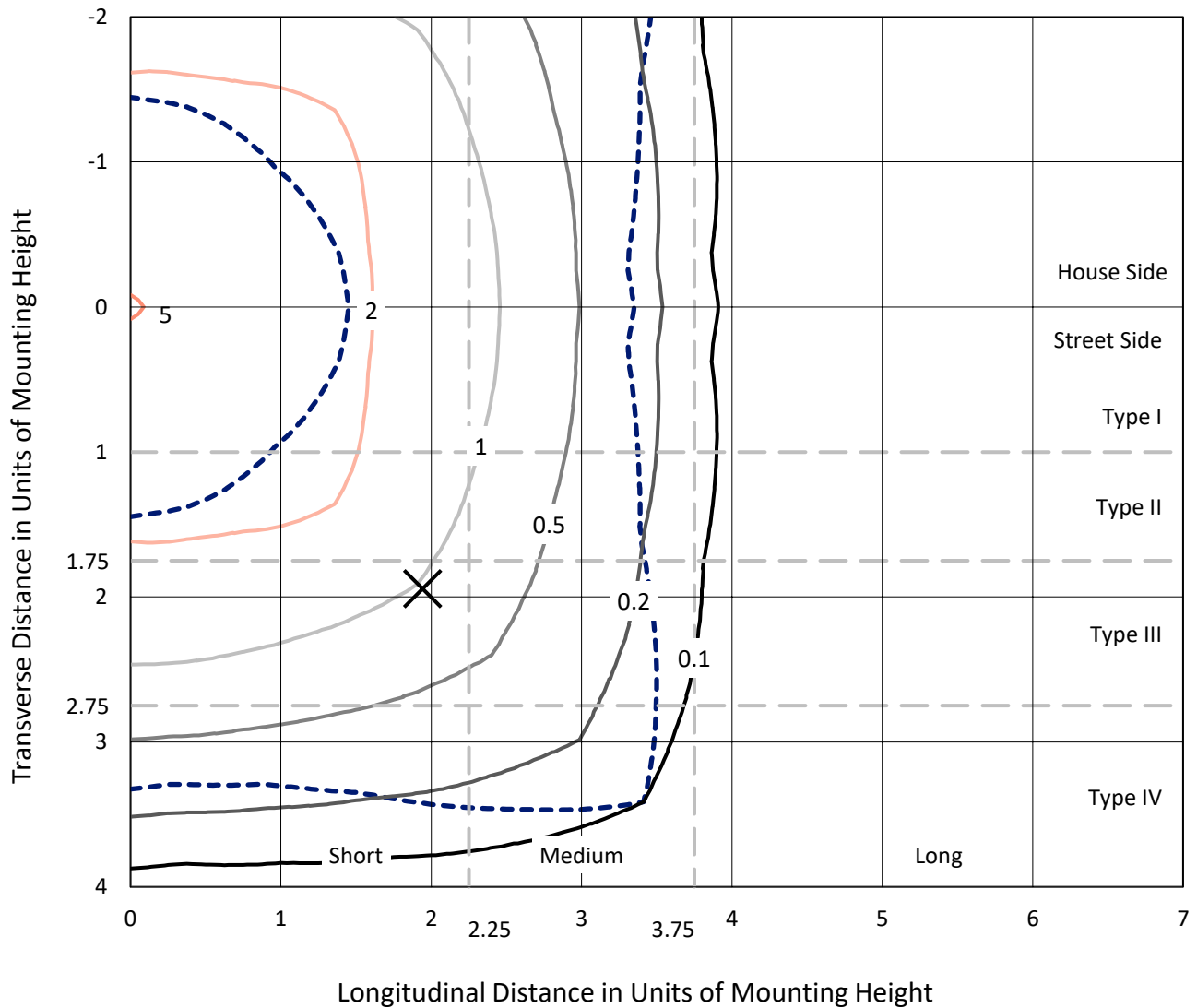
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

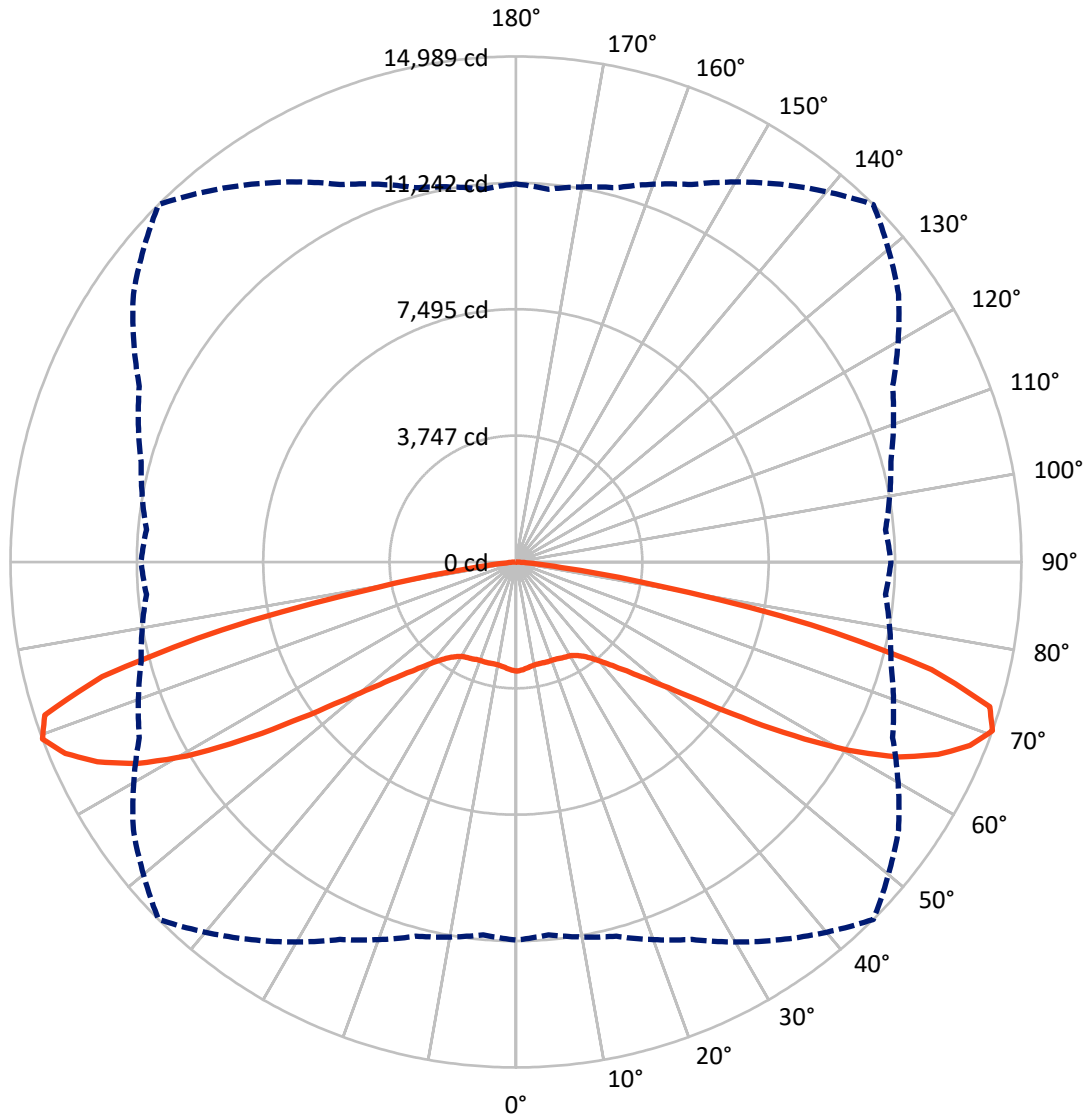
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	17746.5	0.0	17746.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17746.5	0.0	17746.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35493.0	0.0	35493.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	0.8
10°-20°	884.3	2.5
20°-30°	1471.7	4.1
30°-40°	2225.6	6.3
40°-50°	3698.4	10.4
50°-60°	6978.8	19.7
60°-70°	11784.0	33.2
70°-80°	7743.3	21.8
80°-90°	405.7	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°	35493.0	100.0
0°-180°	35493.0	100.0



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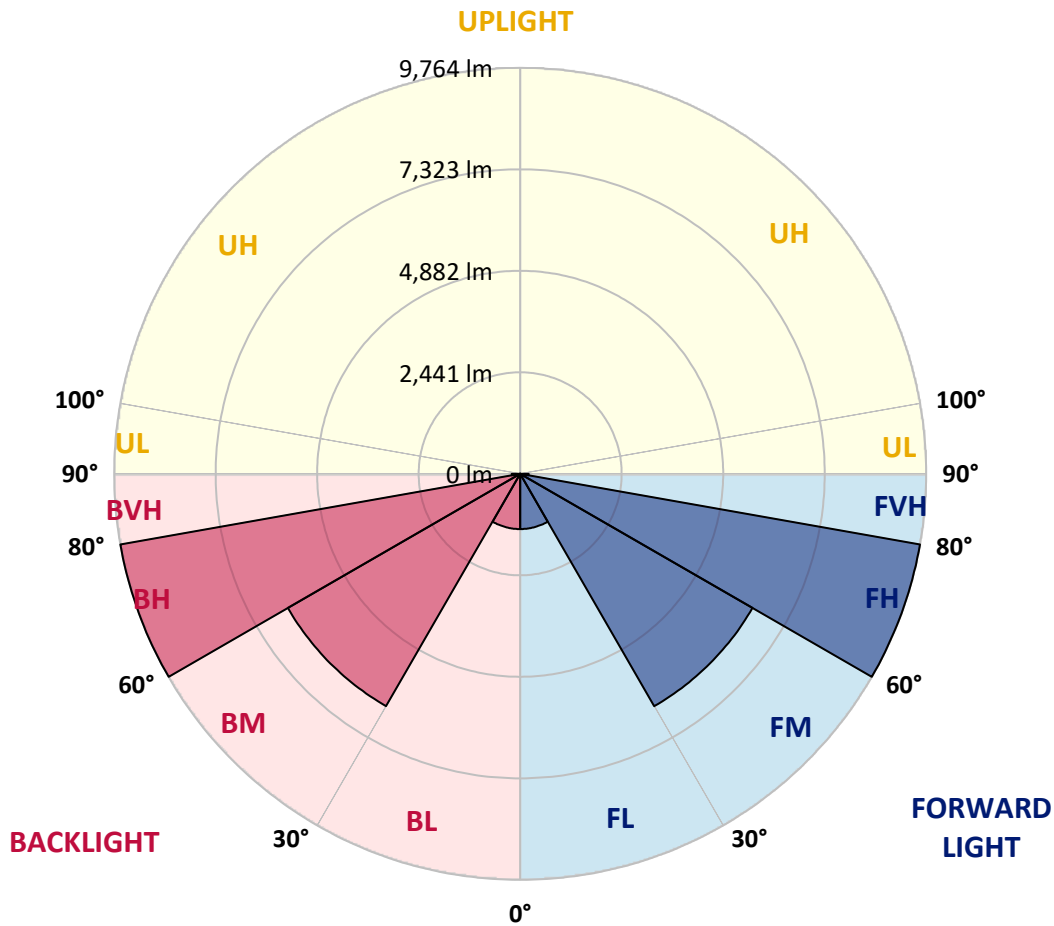
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.6	3.7			
FM (30°-60°)	6451.4	18.2			
FH (60°-80°)	9763.6	27.5			G4/12000
FVH (80°-90°)	202.8	0.6			G2/225
BL (0°-30°)	1328.6	3.7	B3/2500		
BM (30°-60°)	6451.4	18.2	B4/8500		
BH (60°-80°)	9763.6	27.5	B5		G4/12000
BVH (80°-90°)	202.8	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°	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7	3237.7
2.5°	3217.4	3226.6	3222.9	3215.5	3215.5	3210.0	3215.5	3219.2	3224.8	3228.5
5°	3175.0	3182.3	3180.5	3175.0	3176.8	3171.3	3175.0	3180.5	3184.2	3186.0
7.5°	3138.1	3145.4	3141.7	3132.5	3132.5	3127.0	3128.8	3134.4	3139.9	3141.7
10°	3128.8	3136.2	3125.1	3110.4	3104.8	3097.5	3099.3	3104.8	3115.9	3121.5
12.5°	3132.5	3138.1	3127.0	3104.8	3099.3	3091.9	3091.9	3097.5	3112.2	3119.6
15°	3143.6	3149.1	3132.5	3108.5	3103.0	3097.5	3095.6	3103.0	3119.6	3132.5
17.5°	3163.9	3169.4	3143.6	3110.4	3103.0	3104.8	3103.0	3108.5	3134.4	3158.3
20°	3182.3	3186.0	3151.0	3110.4	3103.0	3104.8	3103.0	3114.1	3147.3	3180.5
22.5°	3187.9	3191.6	3158.3	3123.3	3117.8	3119.6	3117.8	3128.8	3160.2	3193.4
25°	3189.7	3195.2	3169.4	3141.7	3151.0	3154.7	3151.0	3152.8	3176.8	3206.3
27.5°	3217.4	3224.8	3200.8	3176.8	3182.3	3180.5	3186.0	3191.6	3210.0	3239.5
30°	3274.6	3280.1	3259.8	3235.8	3232.1	3219.2	3235.8	3254.3	3274.6	3300.4
32.5°	3368.7	3379.7	3353.9	3328.1	3311.5	3304.1	3317.0	3348.4	3376.0	3403.7
35°	3525.5	3532.8	3508.9	3460.9	3431.4	3431.4	3442.5	3483.0	3527.3	3562.4
37.5°	3746.8	3756.1	3713.6	3656.5	3612.2	3612.2	3626.9	3669.4	3735.8	3785.6
40°	4016.2	4029.1	3975.6	3916.6	3874.1	3866.8	3885.2	3933.2	3995.9	4058.6
42.5°	4340.9	4355.6	4285.5	4233.9	4200.7	4200.7	4209.9	4254.2	4311.4	4388.8
45°	4756.0	4781.8	4685.9	4634.2	4602.9	4610.2	4615.8	4654.5	4706.2	4794.7
47.5°	5250.4	5276.2	5174.7	5121.2	5115.7	5150.8	5128.6	5156.3	5184.0	5285.4
50°	5811.2	5855.5	5785.4	5781.7	5792.8	5857.3	5805.7	5820.4	5789.1	5853.6
52.5°	6497.5	6562.1	6549.1	6571.3	6694.9	6827.7	6709.6	6658.0	6539.9	6560.2
55°	7329.5	7427.3	7445.7	7578.6	7859.0	8130.2	7879.3	7670.8	7419.9	7373.8
57.5°	8275.9	8353.4	8441.9	8713.1	9237.1	9718.6	9237.1	8775.9	8381.1	8287.0
60°	9294.3	9390.2	9475.0	9875.4	10653.9	11330.9	10639.1	9906.7	9384.6	9257.4
62.5°	10388.2	10511.8	10570.9	11015.5	11923.1	12731.2	11936.0	11048.7	10469.4	10332.9
65°	11437.9	11539.4	11605.8	12079.9	12947.0	13756.9	13006.0	12131.6	11535.7	11356.8
67.5°	11926.8	11982.2	12144.5	12681.4	13596.4	14520.7	13751.4	12738.5	12072.6	11758.9
70°	11211.0	11098.5	11489.6	12349.3	13673.9	14989.2	13851.0	12323.5	11508.0	10998.9
72.5°	8663.3	8469.6	9148.5	10618.8	12788.4	14690.4	12876.9	10701.9	9571.0	8537.9
75°	4713.5	4494.0	5431.2	7290.8	10198.2	12733.0	10432.5	7499.2	6047.4	4678.5
77.5°	1330.1	1247.1	2003.5	3527.3	6134.1	8940.0	6370.2	3604.8	2376.1	1409.4
80°	407.7	394.8	535.0	1062.6	2604.9	4281.8	2503.4	1075.5	680.7	429.8
82.5°	241.7	221.4	265.7	387.4	664.1	1344.9	645.7	404.0	324.7	217.7
85°	138.4	129.1	156.8	188.2	223.2	285.9	186.3	191.9	173.4	116.2
87.5°	57.2	51.7	60.9	59.0	51.7	66.4	49.8	59.0	70.1	46.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3237.7
3226.6
3186.0
3141.7
3121.5
3121.5
3134.4
3158.3
3182.3
3193.4
3204.5
3232.1
3294.9
3392.6
3549.5
3767.1
4038.3
4383.3
4791.0
5255.9
5814.9
6492.0
7301.8
8220.6
9146.7
10222.2
11268.2
11762.6
<i>11120.6</i>
8794.3
4982.9
1566.3
453.8
236.1
121.8
42.4
0.0

OF REPORT)