

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: P943490

Luminaire Tested: **GALN-SB8A-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943490
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-730-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 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: 36690 lumens
Efficiency: N/A
Efficacy: 161.6 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



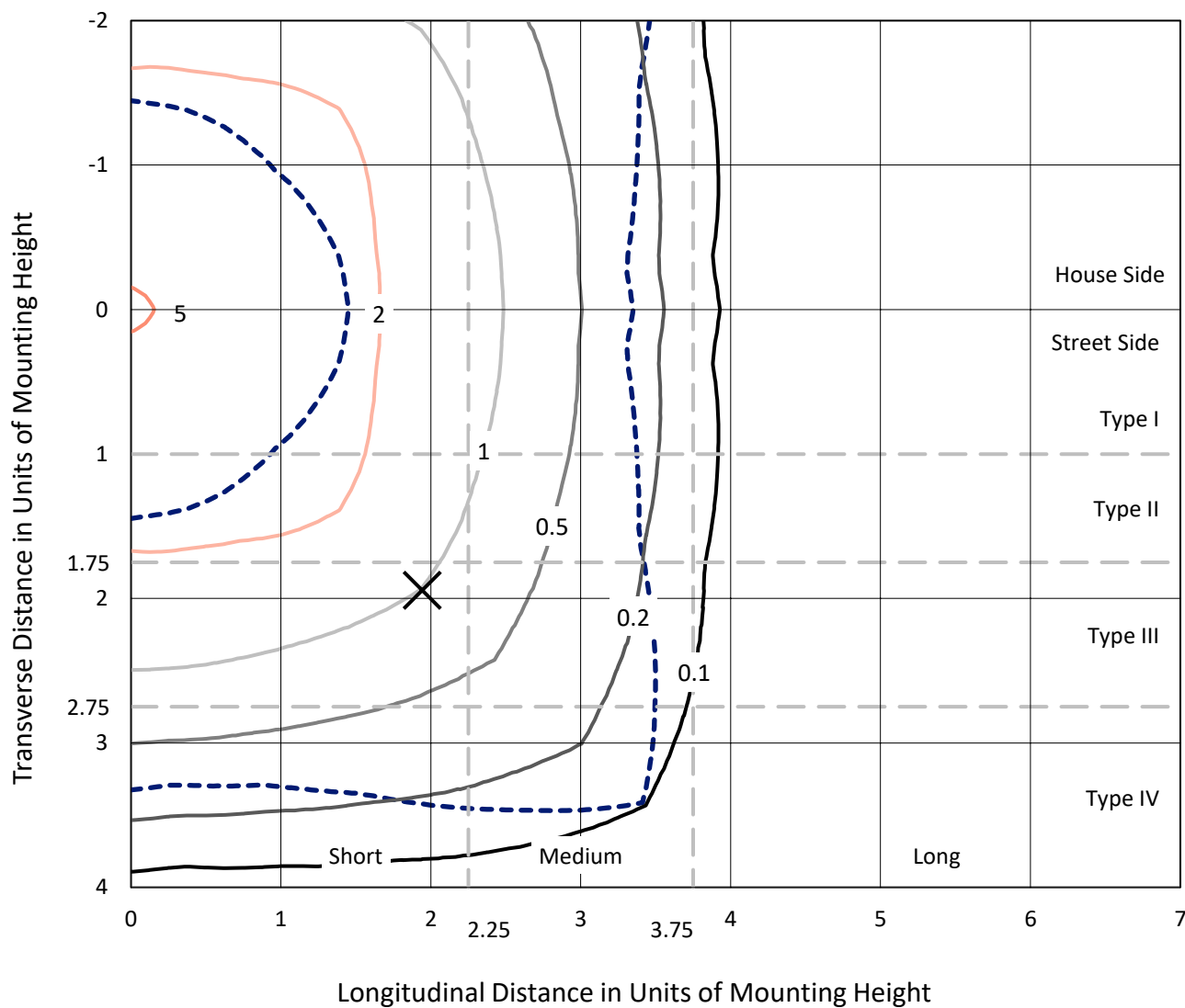
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

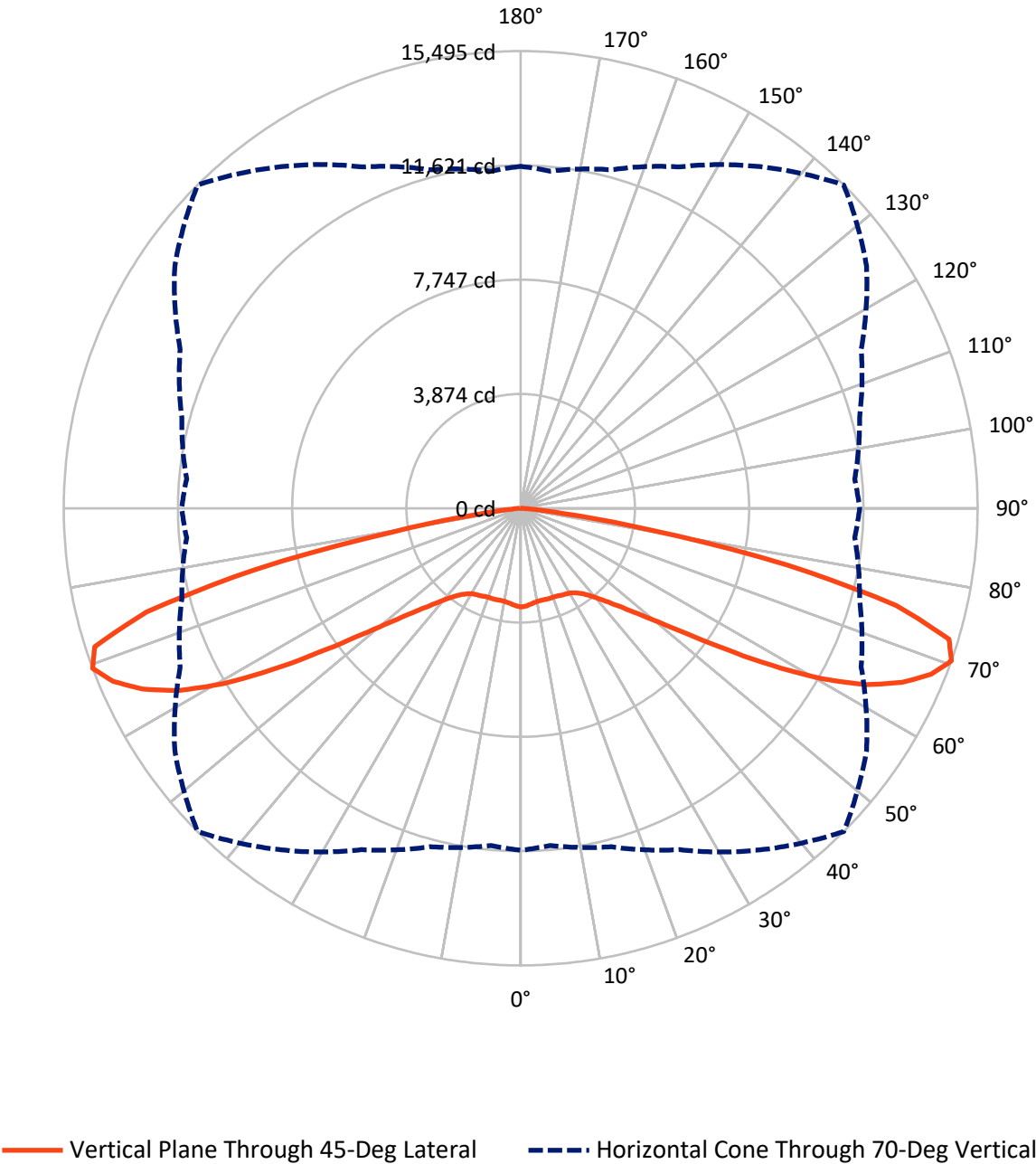
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18345.0	0.0	18345.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18345.0	0.0	18345.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36690.0	0.0	36690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.3	0.8
10°-20°	914.2	2.5
20°-30°	1521.3	4.1
30°-40°	2300.7	6.3
40°-50°	3823.2	10.4
50°-60°	7214.2	19.7
60°-70°	12181.4	33.2
70°-80°	8004.4	21.8
80°-90°	419.3	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°	36690.0	100.0
0°-180°	36690.0	100.0

Coefficient of Utilization



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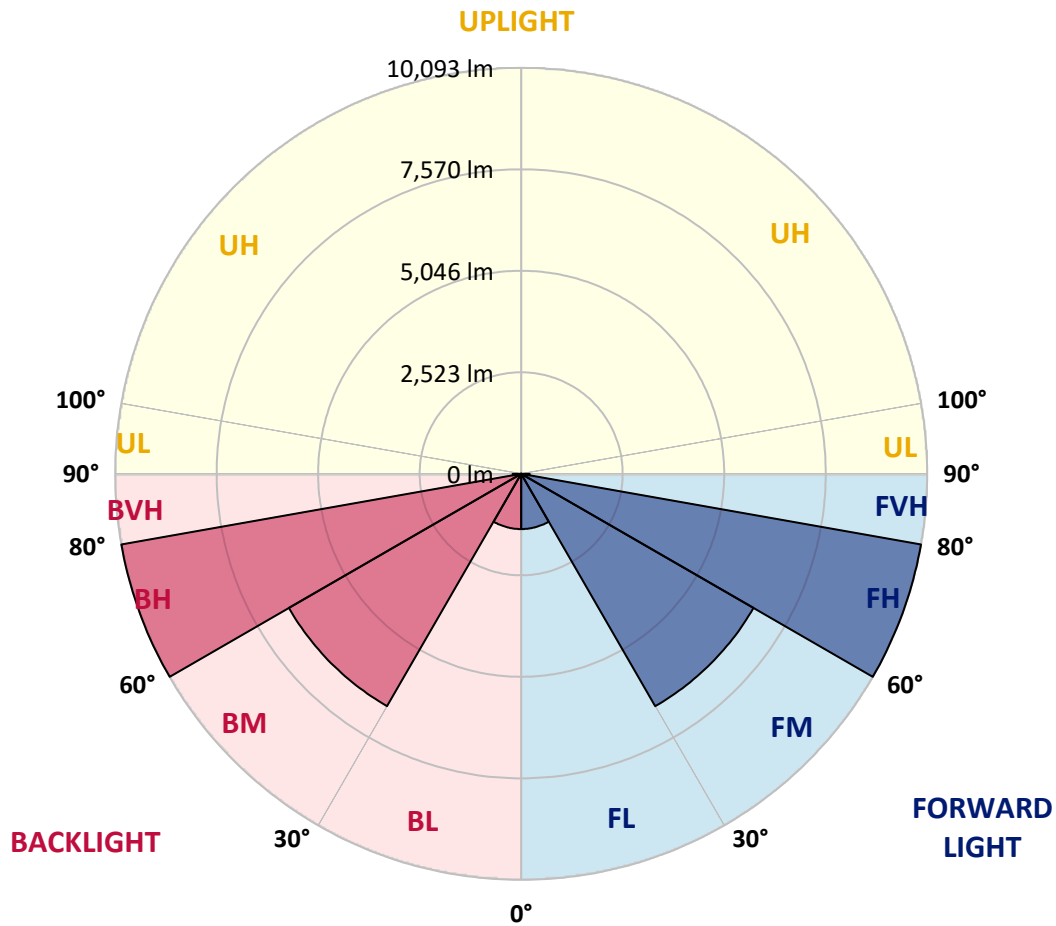
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.4	3.7			
FM	(30°-60°)	6669.0	18.2			
FH	(60°-80°)	10092.9	27.5			G4/12000
FVH	(80°-90°)	209.7	0.6			G2/225
BL	(0°-30°)	1373.4	3.7	B3/2500		
BM	(30°-60°)	6669.0	18.2	B4/8500		
BH	(60°-80°)	10092.9	27.5	B5		G4/12000
BVH	(80°-90°)	209.7	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°	90°
0°	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9	3346.9
2.5°	3325.9	3335.4	3331.6	3324.0	3324.0	3318.3	3324.0	3327.8	3333.5	3337.3	3335.4
5°	3282.0	3289.7	3287.7	3282.0	3283.9	3278.2	3282.0	3287.7	3291.6	3293.5	3293.5
7.5°	3243.9	3251.5	3247.7	3238.2	3238.2	3232.4	3234.4	3240.1	3245.8	3247.7	3247.7
10°	3234.4	3242.0	3230.5	3215.3	3209.6	3201.9	3203.8	3209.6	3221.0	3226.7	3226.7
12.5°	3238.2	3243.9	3232.4	3209.6	3203.8	3196.2	3196.2	3201.9	3217.2	3224.8	3226.7
15°	3249.6	3255.3	3238.2	3213.4	3207.7	3201.9	3200.0	3207.7	3224.8	3238.2	3240.1
17.5°	3270.6	3276.3	3249.6	3215.3	3207.7	3209.6	3207.7	3213.4	3240.1	3264.9	3264.9
20°	3289.7	3293.5	3257.2	3215.3	3207.7	3209.6	3207.7	3219.1	3253.4	3287.7	3289.7
22.5°	3295.4	3299.2	3264.9	3228.6	3222.9	3224.8	3222.9	3234.4	3266.8	3301.1	3301.1
25°	3297.3	3303.0	3276.3	3247.7	3257.2	3261.0	3257.2	3259.1	3283.9	3314.4	3312.5
27.5°	3325.9	3333.5	3308.7	3283.9	3289.7	3287.7	3293.5	3299.2	3318.3	3348.8	3341.1
30°	3385.0	3390.7	3369.8	3345.0	3341.1	3327.8	3345.0	3364.0	3385.0	3411.7	3406.0
32.5°	3482.3	3493.7	3467.0	3440.3	3423.1	3415.5	3428.9	3461.3	3489.9	3518.5	3507.1
35°	3644.4	3652.0	3627.2	3577.6	3547.1	3547.1	3558.5	3600.5	3646.3	3682.5	3669.2
37.5°	3873.2	3882.7	3838.9	3779.8	3734.0	3734.0	3749.3	3793.1	3861.8	3913.3	3894.2
40°	4151.6	4165.0	4109.7	4048.7	4004.8	3997.2	4016.2	4065.8	4130.7	4195.5	4174.5
42.5°	4487.3	4502.5	4430.1	4376.7	4342.3	4342.3	4351.9	4397.6	4456.8	4536.9	4531.1
45°	4916.4	4943.1	4843.9	4790.5	4758.1	4765.7	4771.4	4811.5	4864.9	4956.4	4952.6
47.5°	5427.5	5454.2	5349.3	5294.0	5288.2	5324.5	5301.6	5330.2	5358.8	5463.7	5433.2
50°	6007.2	6053.0	5980.5	5976.7	5988.1	6054.9	6001.5	6016.7	5984.3	6051.1	6011.0
52.5°	6716.6	6783.4	6770.0	6792.9	6920.7	7058.0	6935.9	6882.5	6760.5	6781.5	6710.9
55°	7576.7	7677.8	7696.8	7834.1	8124.0	8404.4	8145.0	7929.5	7670.1	7622.5	7548.1
57.5°	8555.0	8635.1	8726.6	9007.0	9548.6	10046.3	9548.6	9071.8	8663.7	8566.5	8497.8
60°	9607.7	9706.9	9794.6	10208.4	11013.2	11713.1	10997.9	10240.8	9701.1	9569.6	9455.1
62.5°	10738.6	10866.4	10927.4	11387.0	12325.2	13160.5	12338.6	11421.3	10822.5	10681.4	10566.9
65°	11823.7	11928.6	11997.2	12487.3	13383.7	14220.8	13444.7	12540.7	11924.8	11739.8	11648.2
67.5°	12329.1	12386.3	12554.1	13109.0	14054.9	15010.4	14215.1	13168.2	12479.7	12155.5	12159.3
70°	11589.1	11472.8	11877.1	12765.8	14135.0	15494.8	14318.1	12739.1	11896.2	11369.8	11495.7
72.5°	8955.5	8755.3	9457.0	10977.0	13219.6	15185.8	13311.2	11062.8	9893.8	8825.8	9090.9
75°	4872.5	4645.6	5614.3	7536.6	10542.2	13162.4	10784.3	7752.1	6251.3	4836.3	5150.9
77.5°	1375.0	1289.2	2071.1	3646.3	6340.9	9241.5	6585.0	3726.4	2456.3	1457.0	1619.1
80°	421.5	408.1	553.0	1098.5	2692.7	4426.3	2587.9	1111.8	703.7	444.3	469.1
82.5°	249.8	228.8	274.6	400.5	686.5	1390.2	667.5	417.6	335.6	225.0	244.1
85°	143.0	133.5	162.1	194.5	230.8	295.6	192.6	198.3	179.3	120.1	125.9
87.5°	59.1	53.4	62.9	61.0	53.4	68.7	51.5	61.0	72.5	47.7	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)