

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: P950063

Luminaire Tested: **GALN-SB4C-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29564 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

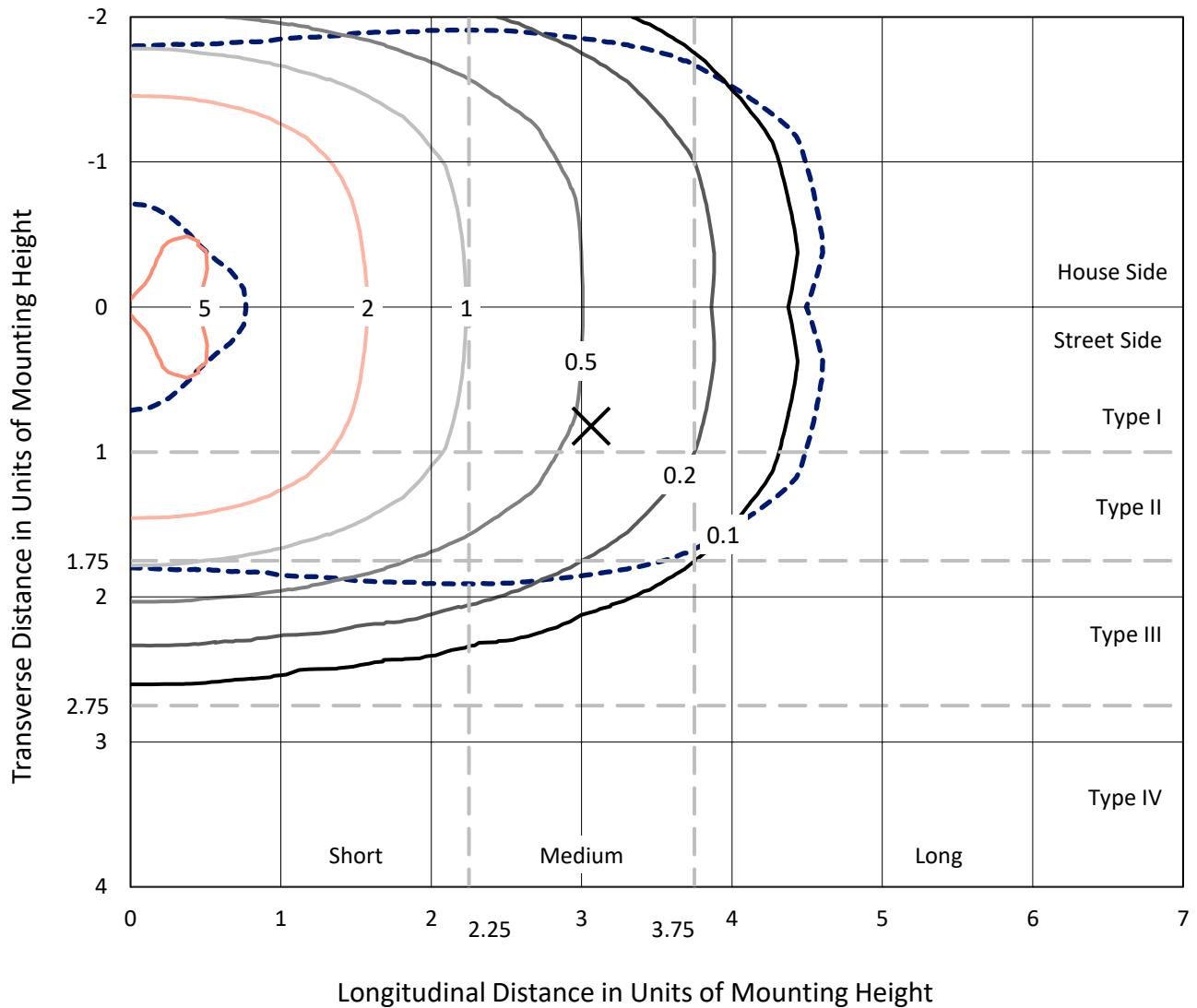
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

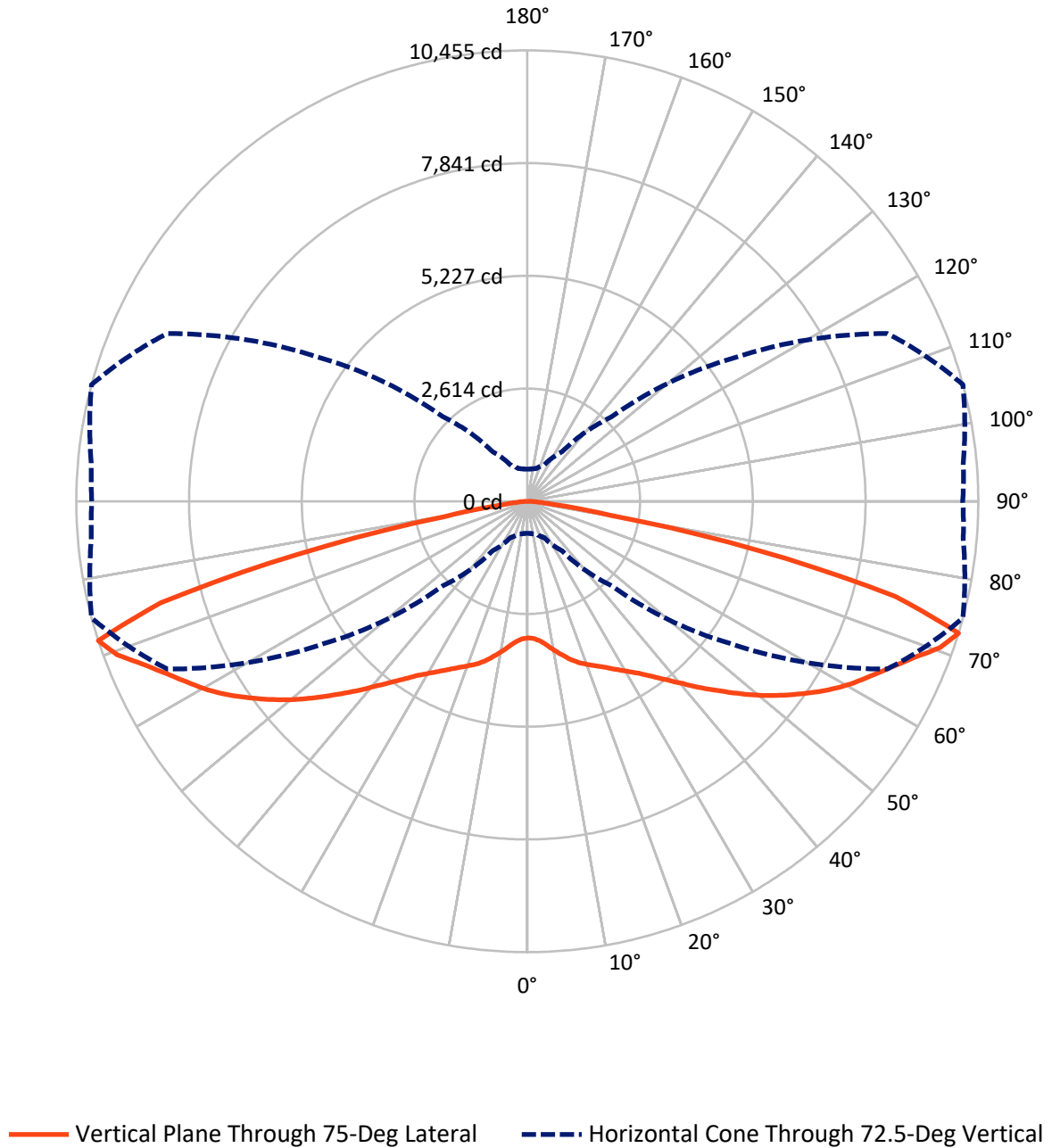
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14782.0	0.0	14782.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14782.0	0.0	14782.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29564.0	0.0	29564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.0
10°-20°	1023.2	3.5
20°-30°	1977.0	6.7
30°-40°	3338.4	11.3
40°-50°	5294.3	17.9
50°-60°	7088.4	24.0
60°-70°	6745.9	22.8
70°-80°	3520.1	11.9
80°-90°	266.5	0.9
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°	29564.0	100.0
0°-180°	29564.0	100.0



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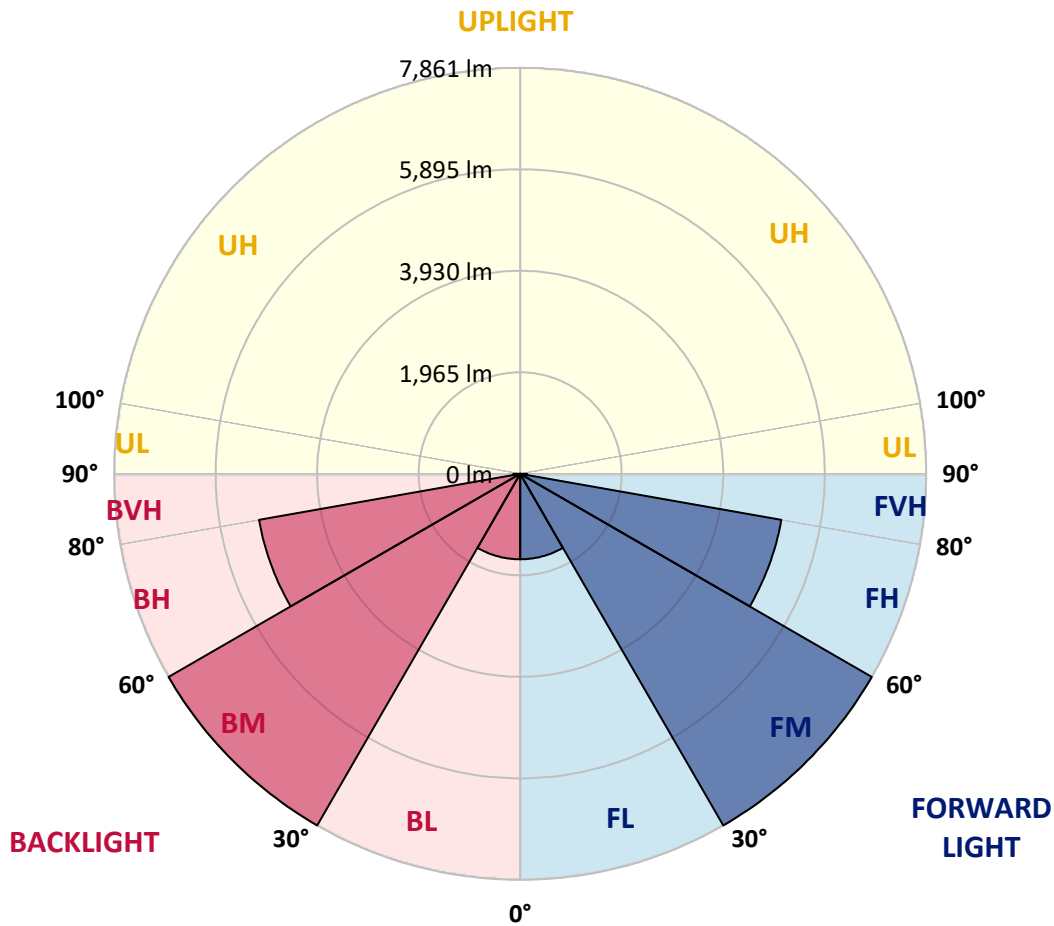
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.2	5.6			
FM (30°-60°)	7860.5	26.6			
FH (60°-80°)	5133.0	17.4			G3/7500
FVH (80°-90°)	133.2	0.5			G2/225
BL (0°-30°)	1655.2	5.6	B3/2500		
BM (30°-60°)	7860.5	26.6	B4/8500		
BH (60°-80°)	5133.0	17.4	B5		G5
BVH (80°-90°)	133.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3166.8	3166.8	3166.8	3166.8	3166.8	3166.8	3166.8	3166.8	3166.8	3166.8
2.5°	3166.8	3163.8	3166.8	3169.9	3168.3	3168.3	3175.9	3180.4	3189.5	3188.0
5°	3145.7	3144.2	3156.3	3169.9	3180.4	3198.5	3221.2	3237.8	3258.9	3263.4
7.5°	3135.1	3130.6	3151.7	3175.9	3209.1	3254.4	3298.2	3343.4	3379.7	3391.7
10°	3142.7	3144.2	3172.9	3218.2	3271.0	3334.4	3396.3	3473.3	3524.6	3536.6
12.5°	3177.4	3174.4	3222.7	3295.1	3367.6	3447.6	3520.0	3604.6	3660.4	3689.1
15°	3240.8	3234.8	3302.7	3409.9	3515.5	3609.1	3668.0	3748.0	3812.9	3849.1
17.5°	3316.3	3319.3	3408.3	3547.2	3686.1	3791.7	3847.6	3888.4	3938.2	3969.9
20°	3449.1	3455.1	3554.8	3719.3	3877.8	3998.5	4043.8	4028.7	4042.3	4066.5
22.5°	3627.2	3630.2	3741.9	3920.1	4086.1	4218.9	4249.1	4187.2	4149.5	4166.1
25°	3834.0	3853.6	3965.3	4148.0	4318.5	4445.3	4458.9	4365.3	4271.8	4276.3
27.5°	4086.1	4104.2	4217.4	4398.5	4572.1	4682.3	4680.8	4555.5	4418.2	4383.5
30°	4359.3	4378.9	4495.2	4682.3	4843.8	4940.4	4919.3	4769.9	4573.6	4508.7
32.5°	4683.8	4695.9	4813.6	5000.8	5150.3	5227.2	5183.5	4999.3	4754.8	4680.8
35°	5076.3	5094.4	5182.0	5358.6	5489.9	5553.3	5479.3	5262.0	4987.2	4904.2
37.5°	5524.6	5512.5	5612.1	5769.1	5877.8	5917.1	5815.9	5557.8	5252.9	5154.8
40°	5992.5	5986.5	6095.2	6246.1	6305.0	6329.1	6179.7	5897.4	5559.3	5453.7
42.5°	6416.7	6412.2	6558.6	6726.1	6797.1	6769.9	6581.2	6258.2	5914.0	5793.3
45°	6756.3	6750.3	6929.9	7165.4	7304.2	7259.0	7005.4	6656.7	6273.3	6148.0
47.5°	7017.4	7020.5	7213.7	7505.0	7748.0	7764.6	7438.6	7062.7	6668.8	6526.9
50°	7206.1	7215.2	7422.0	7745.0	8077.1	8223.5	7880.9	7479.3	7077.8	6917.8
52.5°	7252.9	7269.5	7518.6	7897.5	8288.4	8567.7	8330.7	7879.3	7465.8	7313.3
55°	7003.9	7037.1	7352.5	7885.4	8418.2	8794.1	8726.2	8285.4	7856.7	7699.7
57.5°	6431.8	6478.6	6846.9	7542.7	8389.5	8949.6	9032.6	8674.8	8247.7	8096.7
60°	5630.3	5686.1	6039.3	6798.6	7985.0	9006.9	9248.4	9053.7	8606.9	8460.5
62.5°	4421.2	4493.6	4916.3	5806.9	7130.7	8739.7	9432.6	9396.3	8929.9	8747.3
65°	2836.3	2913.2	3358.5	4410.6	5991.0	7921.6	9489.9	9729.9	9271.1	9016.0
67.5°	1710.2	1744.9	1965.3	2673.2	4378.9	6688.4	9003.9	10099.8	9669.6	9352.6
70°	1094.4	1114.0	1245.3	1569.8	2475.5	4880.1	7799.3	10169.2	10152.6	9698.2
72.5°	742.7	748.7	783.4	929.8	1400.8	2772.9	5752.5	9206.2	10454.5	10143.5
75°	543.4	576.6	632.5	658.1	795.5	1385.7	3296.6	6468.0	8810.7	8946.5
77.5°	404.5	406.0	483.0	513.2	567.6	738.1	1394.7	3610.6	5470.3	5743.5
80°	342.6	324.5	323.0	413.6	427.2	460.4	623.4	1246.8	1959.3	1187.9
82.5°	285.3	265.7	240.0	323.0	291.3	282.3	270.2	507.2	623.4	306.4
85°	199.2	190.2	181.1	211.3	166.0	141.9	129.8	237.0	262.6	129.8
87.5°	86.0	89.1	90.6	93.6	69.4	49.8	49.8	66.4	66.4	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3166.8
3186.5
3263.4
3394.8
3548.7
3701.2
3862.7
3985.0
4084.6
4178.2
4283.8
4394.0
4516.3
4698.9
4916.3
5172.9
5488.4
5823.5
6176.7
6569.1
6966.1
7352.5
7743.5
8131.4
8492.2
8768.4
9047.7
9376.7
9695.2
10095.2
8617.5
5123.1
898.1
261.1
114.7
37.7
0.0

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