

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: P955775

Luminaire Tested: **GALN-SB8C-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955775
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-SB8C-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 59648 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

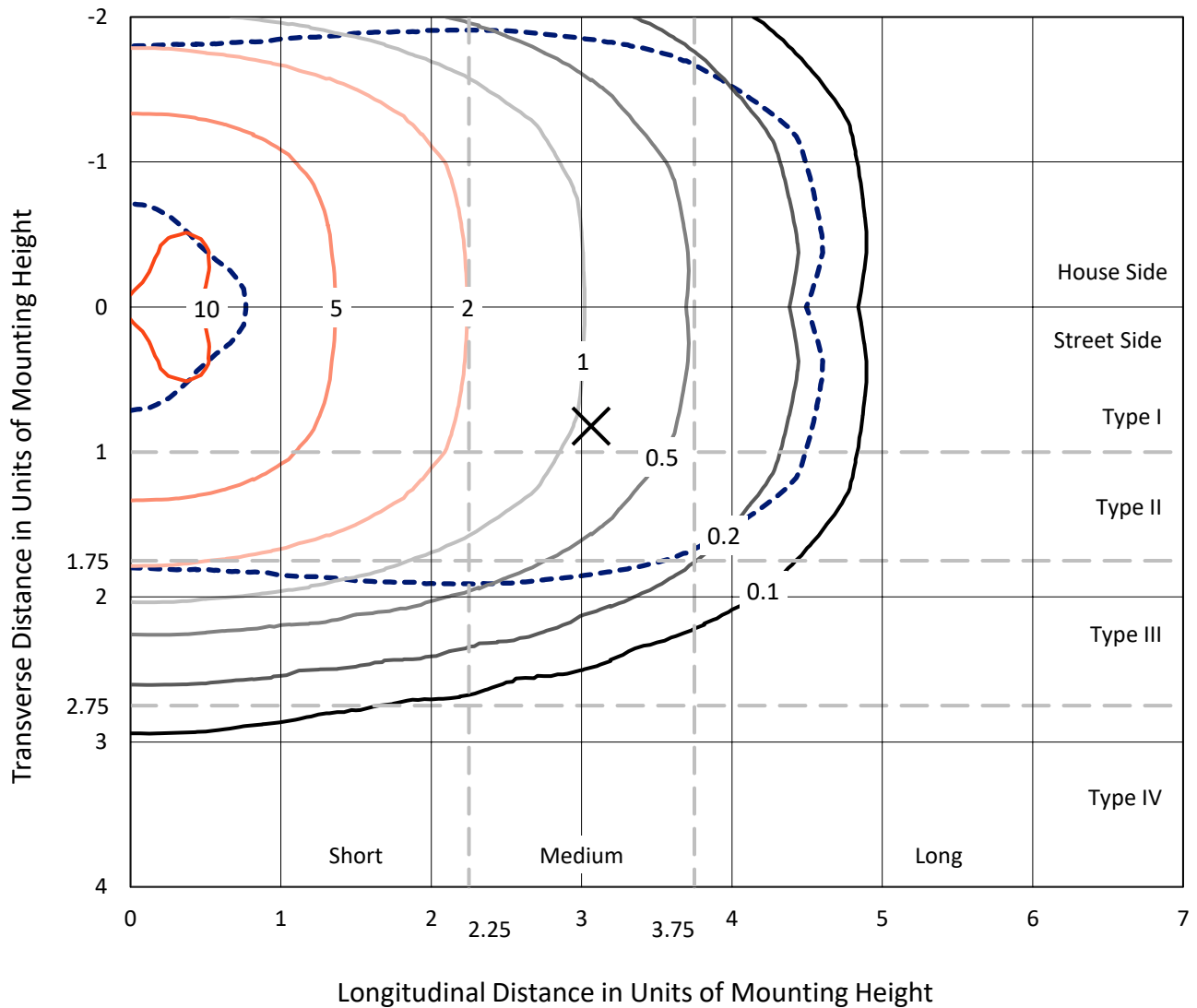
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

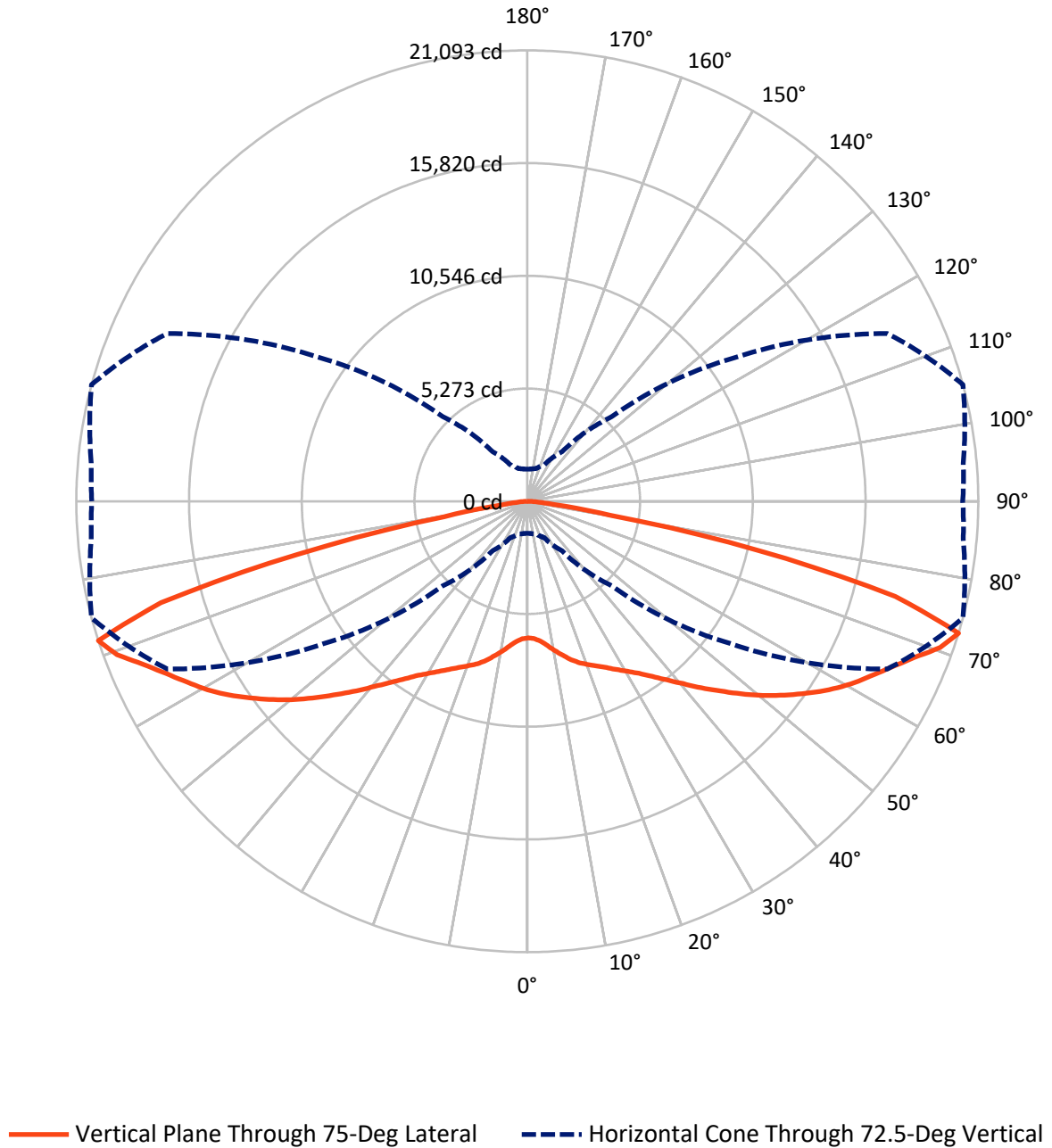
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	29824.0	0.0	29824.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29824.0	0.0	29824.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59648.0	0.0	59648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.9	1.0
10°-20°	2064.3	3.5
20°-30°	3988.9	6.7
30°-40°	6735.5	11.3
40°-50°	10681.7	17.9
50°-60°	14301.5	24.0
60°-70°	13610.5	22.8
70°-80°	7102.2	11.9
80°-90°	537.6	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°	59648.0	100.0
0°-180°	59648.0	100.0



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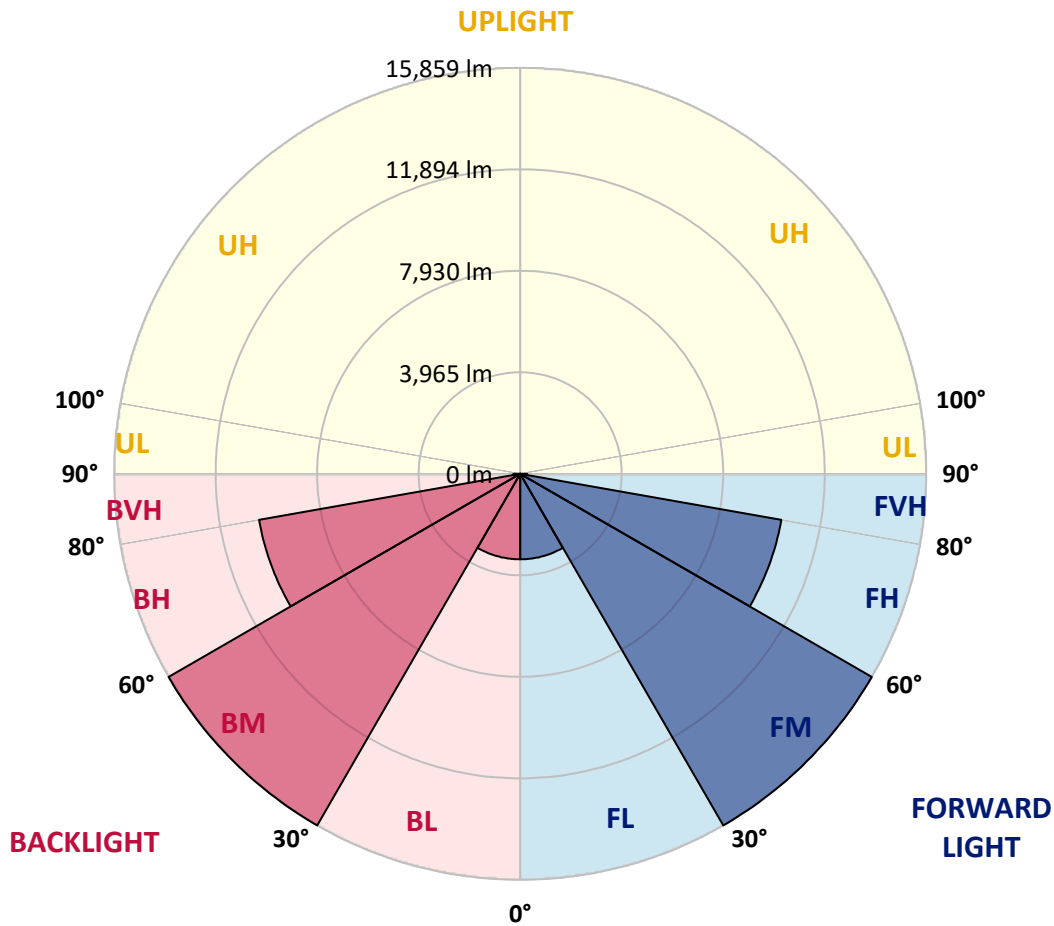
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3339.6	5.6			
FM (30°-60°)	15859.3	26.6			
FH (60°-80°)	10356.3	17.4			G4/12000
FVH (80°-90°)	268.8	0.5			G3/500
BL (0°-30°)	3339.6	5.6	B4/5000		
BM (30°-60°)	15859.3	26.6	B5		
BH (60°-80°)	10356.3	17.4	B5		G5
BVH (80°-90°)	268.8	0.5			G3/500
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°	6389.4	6389.4	6389.4	6389.4	6389.4	6389.4	6389.4	6389.4	6389.4	6389.4
2.5°	6389.4	6383.3	6389.4	6395.5	6392.4	6392.4	6407.6	6416.8	6435.1	6432.0
5°	6346.7	6343.7	6368.1	6395.5	6416.8	6453.3	6499.0	6532.5	6575.1	6584.3
7.5°	6325.4	6316.3	6358.9	6407.6	6474.6	6566.0	6654.3	6745.7	6818.8	6843.1
10°	6340.6	6343.7	6401.6	6492.9	6599.5	6727.4	6852.3	7007.6	7111.1	7135.5
12.5°	6410.7	6404.6	6502.1	6648.2	6794.4	6955.8	7102.0	7272.6	7385.2	7443.1
15°	6538.6	6526.4	6663.5	6879.7	7092.9	7281.7	7400.5	7561.9	7692.8	7765.9
17.5°	6690.9	6697.0	6876.6	7156.8	7437.0	7650.2	7762.9	7845.1	7945.6	8009.6
20°	6958.9	6971.1	7172.1	7504.0	7823.8	8067.4	8158.8	8128.3	8155.7	8204.5
22.5°	7318.2	7324.3	7549.7	7909.1	8244.1	8512.1	8573.0	8448.1	8372.0	8405.5
25°	7735.5	7775.1	8000.4	8368.9	8713.1	8968.9	8996.3	8807.5	8618.6	8627.8
27.5°	8244.1	8280.6	8509.0	8874.5	9224.7	9447.0	9444.0	9191.2	8914.1	8844.0
30°	8795.3	8834.9	9069.4	9447.0	9772.9	9967.8	9925.1	9623.6	9227.7	9096.8
32.5°	9450.1	9474.4	9712.0	10089.6	10391.1	10546.4	10458.1	10086.6	9593.2	9444.0
35°	10241.9	10278.4	10455.1	10811.4	11076.3	11204.2	11055.0	10616.5	10062.2	9894.7
37.5°	11146.4	11122.0	11323.0	11639.7	11859.0	11938.2	11734.1	11213.4	10598.2	10400.2
40°	12090.5	12078.3	12297.6	12602.1	12720.9	12769.6	12468.1	11898.6	11216.4	11003.2
42.5°	12946.2	12937.1	13232.5	13570.6	13713.7	13658.9	13278.2	12626.5	11932.1	11688.5
45°	13631.5	13619.3	13981.7	14456.8	14737.0	14645.6	14134.0	13430.5	12656.9	12404.1
47.5°	14158.3	14164.4	14554.2	15142.0	15632.3	15665.8	15008.0	14249.7	13454.8	13168.6
50°	14539.0	14557.3	14974.5	15626.2	16296.2	16591.6	15900.3	15090.2	14280.1	13957.3
52.5°	14633.4	14666.9	15169.4	15933.8	16722.6	17286.0	16807.9	15897.3	15062.8	14755.2
55°	14130.9	14197.9	14834.4	15909.5	16984.5	17742.8	17605.8	16716.5	15851.6	15534.9
57.5°	12976.7	13071.1	13814.2	15218.1	16926.6	18056.5	18224.0	17502.2	16640.4	16335.8
60°	11359.6	11472.2	12184.9	13716.7	16110.5	18172.2	18659.5	18266.7	17365.2	17069.8
62.5°	8920.1	9066.3	9919.1	11715.9	14386.7	17633.2	19031.1	18958.0	18016.9	17648.4
65°	5722.4	5877.7	6776.1	8898.8	12087.4	15982.6	19146.8	19631.0	18705.2	18190.5
67.5°	3450.5	3520.5	3965.2	5393.5	8834.9	13494.4	18166.2	20377.2	19509.2	18869.7
70°	2208.0	2247.5	2512.5	3167.3	4994.5	9846.0	15735.9	20517.2	20483.7	19567.1
72.5°	1498.4	1510.5	1580.6	1876.0	2826.2	5594.5	11606.2	18574.2	21092.8	20465.5
75°	1096.4	1163.4	1276.0	1327.8	1605.0	2795.7	6651.3	13049.8	17776.3	18050.4
77.5°	816.2	819.2	974.5	1035.5	1145.1	1489.2	2814.0	7284.7	11036.7	11588.0
80°	691.3	654.8	651.7	834.5	861.9	928.9	1257.8	2515.5	3953.0	2396.8
82.5°	575.6	536.0	484.2	651.7	587.8	569.5	545.1	1023.3	1257.8	618.2
85°	402.0	383.7	365.5	426.4	335.0	286.3	261.9	478.1	529.9	261.9
87.5°	173.6	179.7	182.7	188.8	140.1	100.5	100.5	134.0	134.0	103.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6389.4
6429.0
6584.3
6849.2
7159.9
7467.5
7793.3
8040.0
8241.0
8429.8
8643.0
8865.3
9112.0
9480.5
9919.1
10436.8
11073.3
11749.4
12462.0
13253.8
14054.8
14834.4
15623.2
16405.9
17133.7
17691.1
18254.5
18918.4
19561.0
20368.0
17386.5
10336.3
1812.0
526.9
231.5
76.1
0.0

OF REPORT)