

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: P951491

Luminaire Tested: **GALN-SB5C-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951491
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-SB5C-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 37262 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

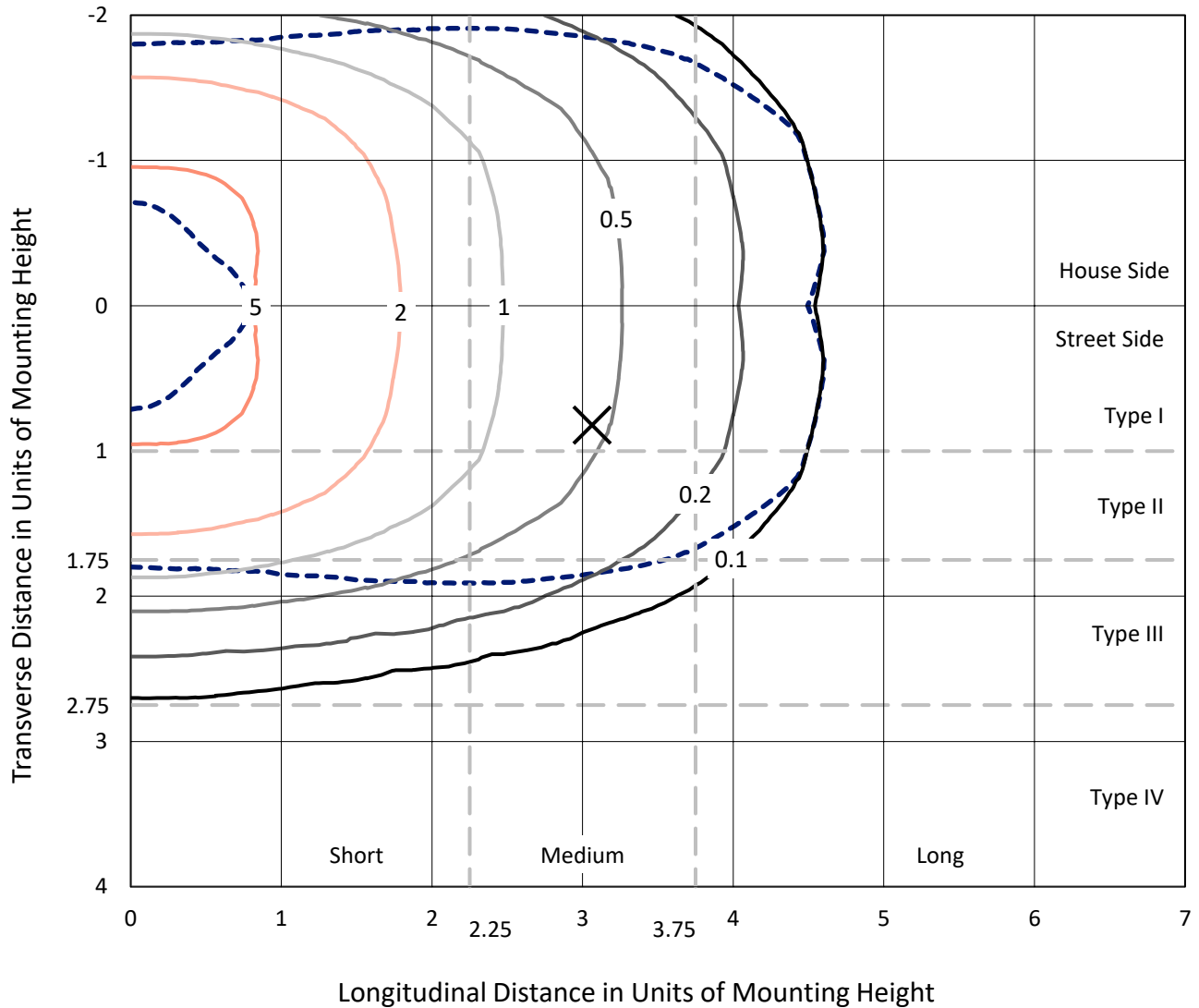
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

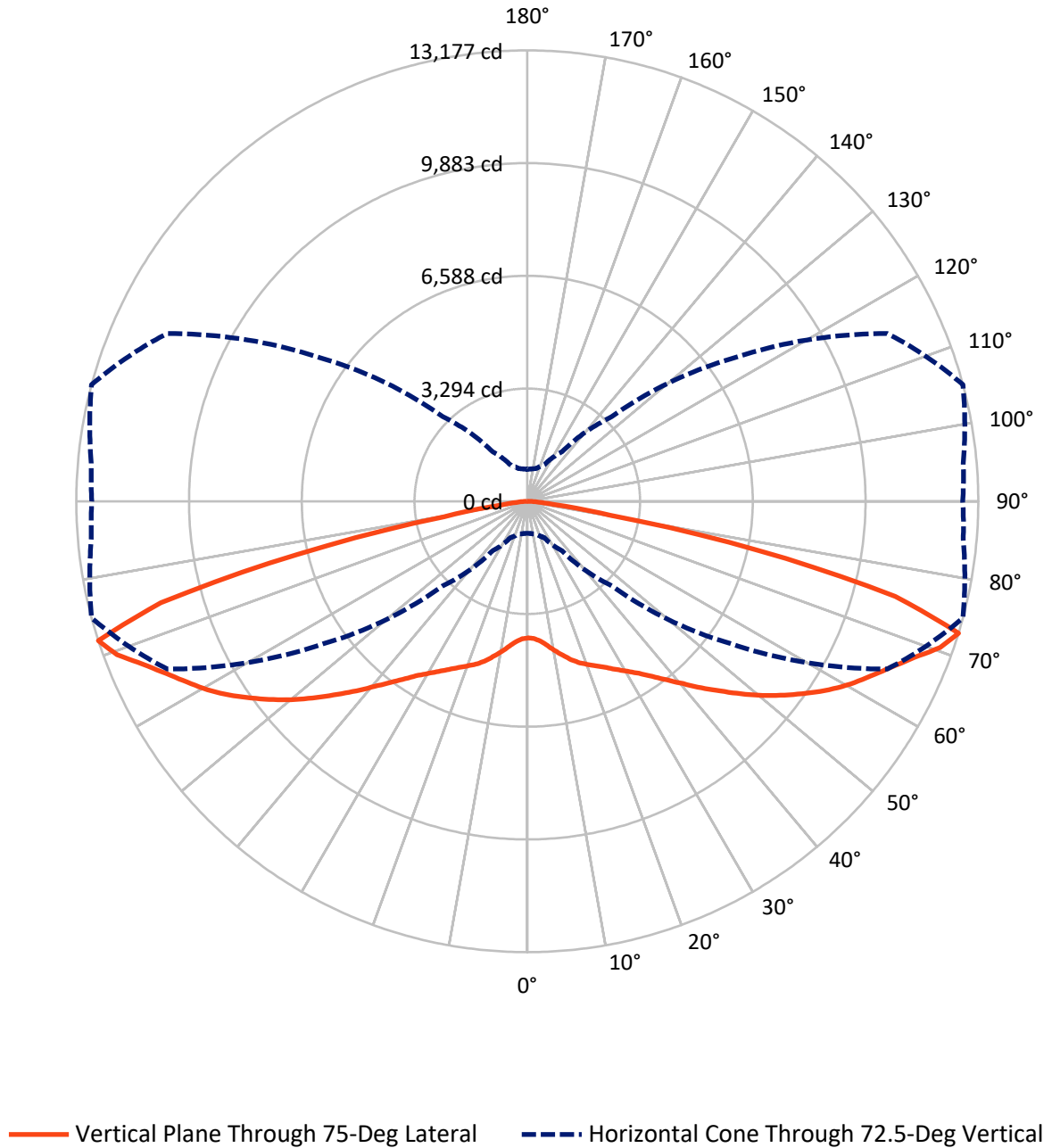
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	18631.0	0.0	18631.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18631.0	0.0	18631.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37262.0	0.0	37262.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	1.0
10°-20°	1289.6	3.5
20°-30°	2491.8	6.7
30°-40°	4207.6	11.3
40°-50°	6672.8	17.9
50°-60°	8934.1	24.0
60°-70°	8502.4	22.8
70°-80°	4436.7	11.9
80°-90°	335.8	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°	37262.0	100.0
0°-180°	37262.0	100.0

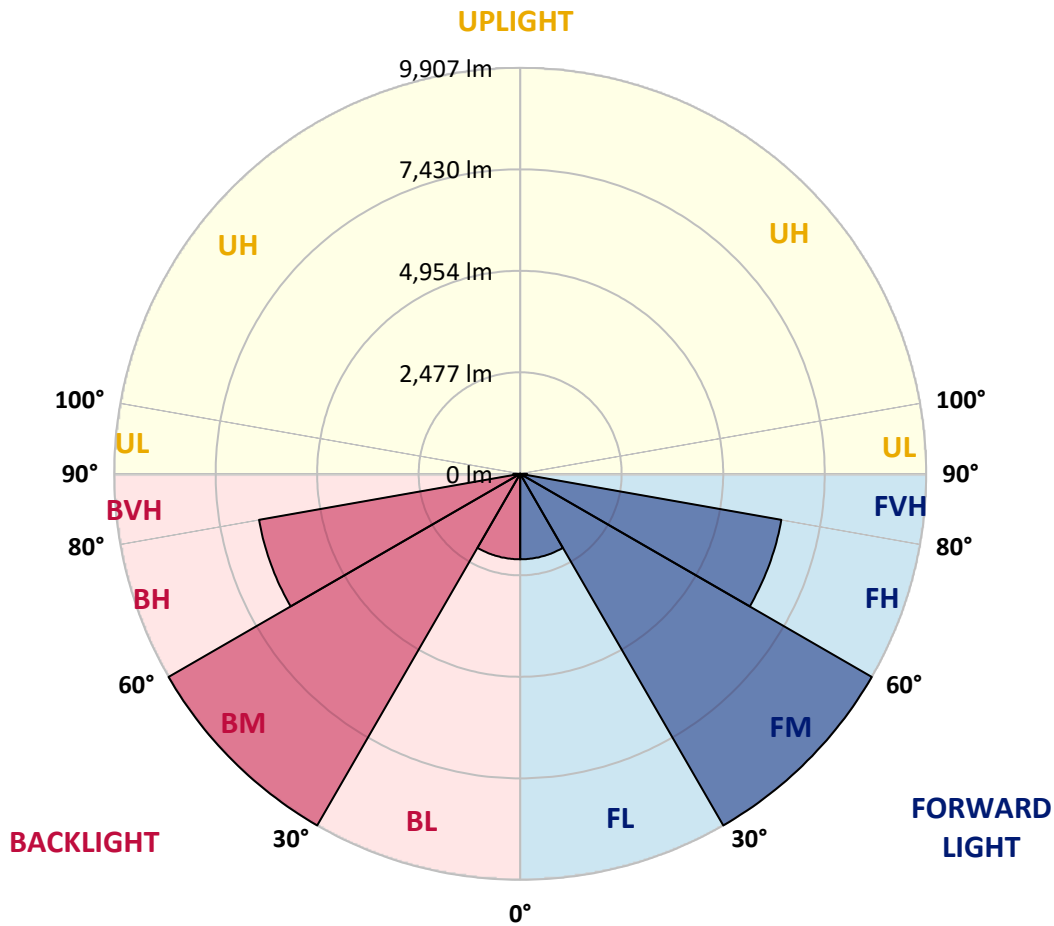


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.2	5.6			
FM (30°-60°)	9907.3	26.6			
FH (60°-80°)	6469.6	17.4			G3/7500
FVH (80°-90°)	167.9	0.5			G2/225
BL (0°-30°)	2086.2	5.6	B3/2500		
BM (30°-60°)	9907.3	26.6	B5		
BH (60°-80°)	6469.6	17.4	B5		G5
BVH (80°-90°)	167.9	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°	3991.4	3991.4	3991.4	3991.4	3991.4	3991.4	3991.4	3991.4	3991.4	3991.4
2.5°	3991.4	3987.6	3991.4	3995.2	3993.3	3993.3	4002.8	4008.5	4020.0	4018.1
5°	3964.8	3962.9	3978.1	3995.2	4008.5	4031.4	4059.9	4080.8	4107.5	4113.2
7.5°	3951.5	3945.8	3972.4	4002.8	4044.7	4101.8	4156.9	4214.0	4259.7	4274.9
10°	3961.0	3962.9	3999.0	4056.1	4122.7	4202.6	4280.6	4377.6	4442.3	4457.5
12.5°	4004.7	4000.9	4061.8	4153.1	4244.5	4345.3	4436.6	4543.1	4613.5	4649.7
15°	4084.6	4077.0	4162.7	4297.7	4430.9	4548.9	4623.1	4723.9	4805.7	4851.4
17.5°	4179.8	4183.6	4295.8	4470.9	4645.9	4779.1	4849.5	4900.8	4963.6	5003.6
20°	4347.2	4354.8	4480.4	4687.7	4887.5	5039.7	5096.8	5077.7	5094.9	5125.3
22.5°	4571.7	4575.5	4716.3	4940.8	5150.0	5317.5	5355.5	5277.5	5229.9	5250.9
25°	4832.3	4857.1	4997.8	5228.0	5443.0	5602.8	5620.0	5502.0	5384.1	5389.8
27.5°	5150.0	5172.9	5315.6	5543.9	5762.6	5901.5	5899.6	5741.7	5568.6	5524.8
30°	5494.4	5519.1	5665.6	5901.5	6105.1	6226.9	6200.2	6011.9	5764.5	5682.7
32.5°	5903.4	5918.7	6067.0	6303.0	6491.3	6588.3	6533.2	6301.1	5992.8	5899.6
35°	6398.1	6420.9	6531.3	6753.8	6919.4	6999.3	6906.0	6632.1	6285.8	6181.2
37.5°	6963.1	6947.9	7073.5	7271.3	7408.3	7457.8	7330.3	7005.0	6620.7	6497.0
40°	7552.9	7545.3	7682.3	7872.5	7946.7	7977.1	7788.8	7433.0	7006.9	6873.7
42.5°	8087.5	8081.8	8266.3	8477.5	8566.9	8532.7	8294.9	7887.7	7454.0	7301.8
45°	8515.6	8507.9	8734.3	9031.1	9206.2	9149.1	8829.5	8390.0	7906.8	7748.8
47.5°	8844.7	8848.5	9092.0	9459.2	9765.5	9786.4	9375.5	8901.8	8405.2	8226.4
50°	9082.5	9093.9	9354.6	9761.7	10180.2	10364.8	9932.9	9426.8	8920.8	8719.1
52.5°	9141.5	9162.4	9476.3	9953.8	10446.6	10798.5	10499.9	9931.0	9409.7	9217.6
55°	8827.6	8869.4	9267.0	9938.6	10610.2	11083.9	10998.3	10442.8	9902.5	9704.6
57.5°	8106.5	8165.5	8629.7	9506.8	10574.0	11279.9	11384.5	10933.6	10395.2	10205.0
60°	7096.3	7166.7	7611.9	8568.8	10064.2	11352.2	11656.6	11411.1	10848.0	10663.5
62.5°	5572.4	5663.7	6196.4	7318.9	8987.4	11015.4	11888.7	11843.0	11255.1	11024.9
65°	3574.8	3671.8	4233.0	5559.1	7551.0	9984.3	11961.0	12263.5	11685.1	11363.6
67.5°	2155.5	2199.3	2477.0	3369.3	5519.1	8429.9	11348.4	12729.6	12187.4	11787.8
70°	1379.3	1404.0	1569.6	1978.6	3120.1	6150.8	9830.2	12817.1	12796.2	12223.5
72.5°	936.0	943.6	987.4	1171.9	1765.5	3494.9	7250.4	11603.3	13176.7	12784.7
75°	684.9	726.8	797.1	829.5	1002.6	1746.5	4155.0	8152.2	11104.8	11276.1
77.5°	509.9	511.8	608.8	646.8	715.3	930.3	1757.9	4550.8	6894.6	7239.0
80°	431.9	409.0	407.1	521.3	538.4	580.3	785.7	1571.5	2469.4	1497.3
82.5°	359.6	334.8	302.5	407.1	367.2	355.8	340.5	639.2	785.7	386.2
85°	251.1	239.7	228.3	266.3	209.3	178.8	163.6	298.7	331.0	163.6
87.5°	108.4	112.2	114.1	118.0	87.5	62.8	62.8	83.7	83.7	64.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3991.4
4016.2
4113.2
4278.7
4472.8
4664.9
4868.5
5022.6
5148.1
5266.1
5399.3
5538.2
5692.3
5922.5
6196.4
6519.8
6917.5
7339.8
7785.0
8279.6
8780.0
9267.0
9759.8
10248.7
10703.4
11051.6
11403.5
11818.3
12219.7
12723.9
10861.3
6457.1
1132.0
329.1
144.6
47.6
0.0

OF REPORT)