

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: P951428

Luminaire Tested: **GALN-SB5C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951428
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-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35004 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

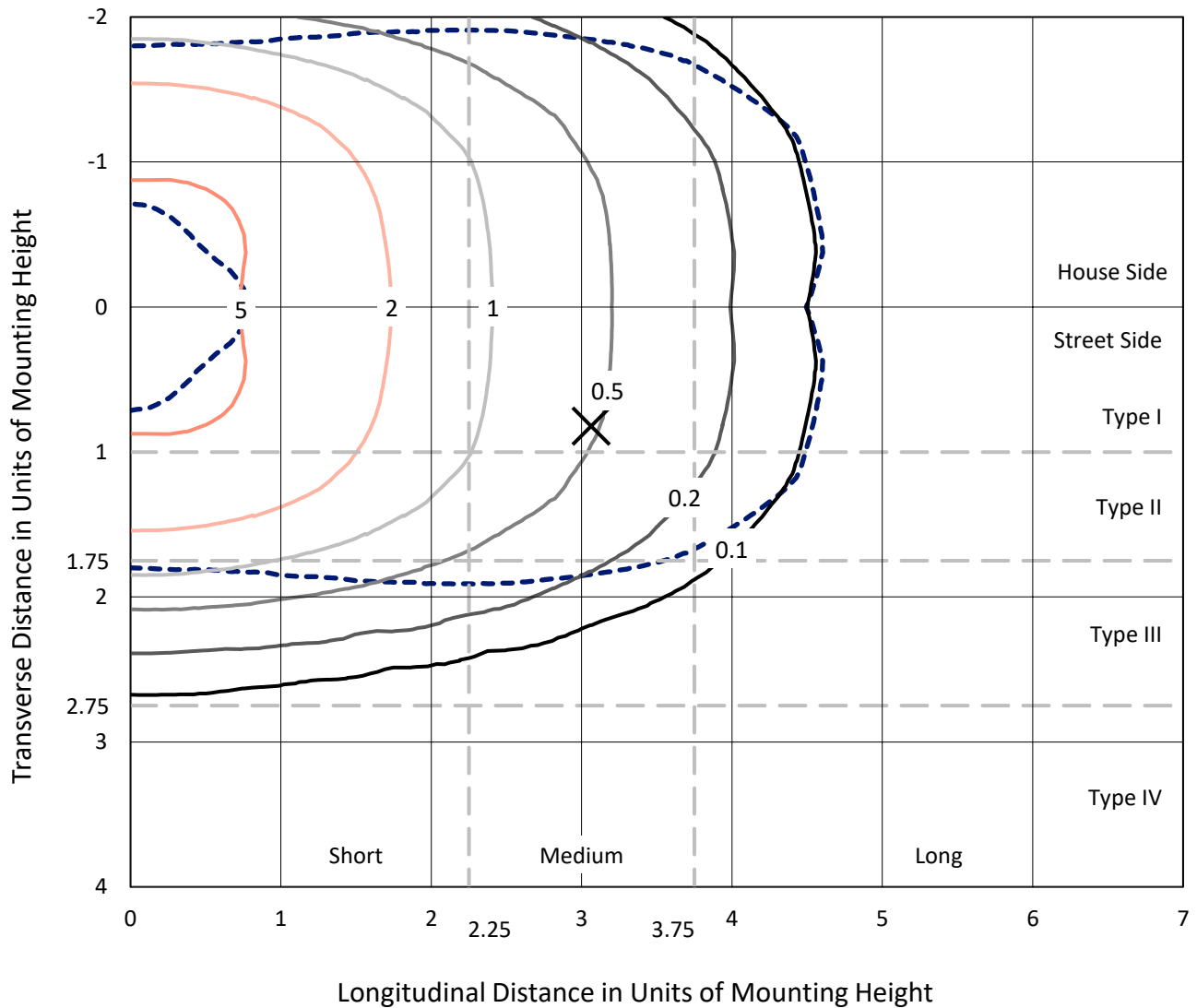
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951428
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Iso-Footcandle Lines of Horizontal Illumination

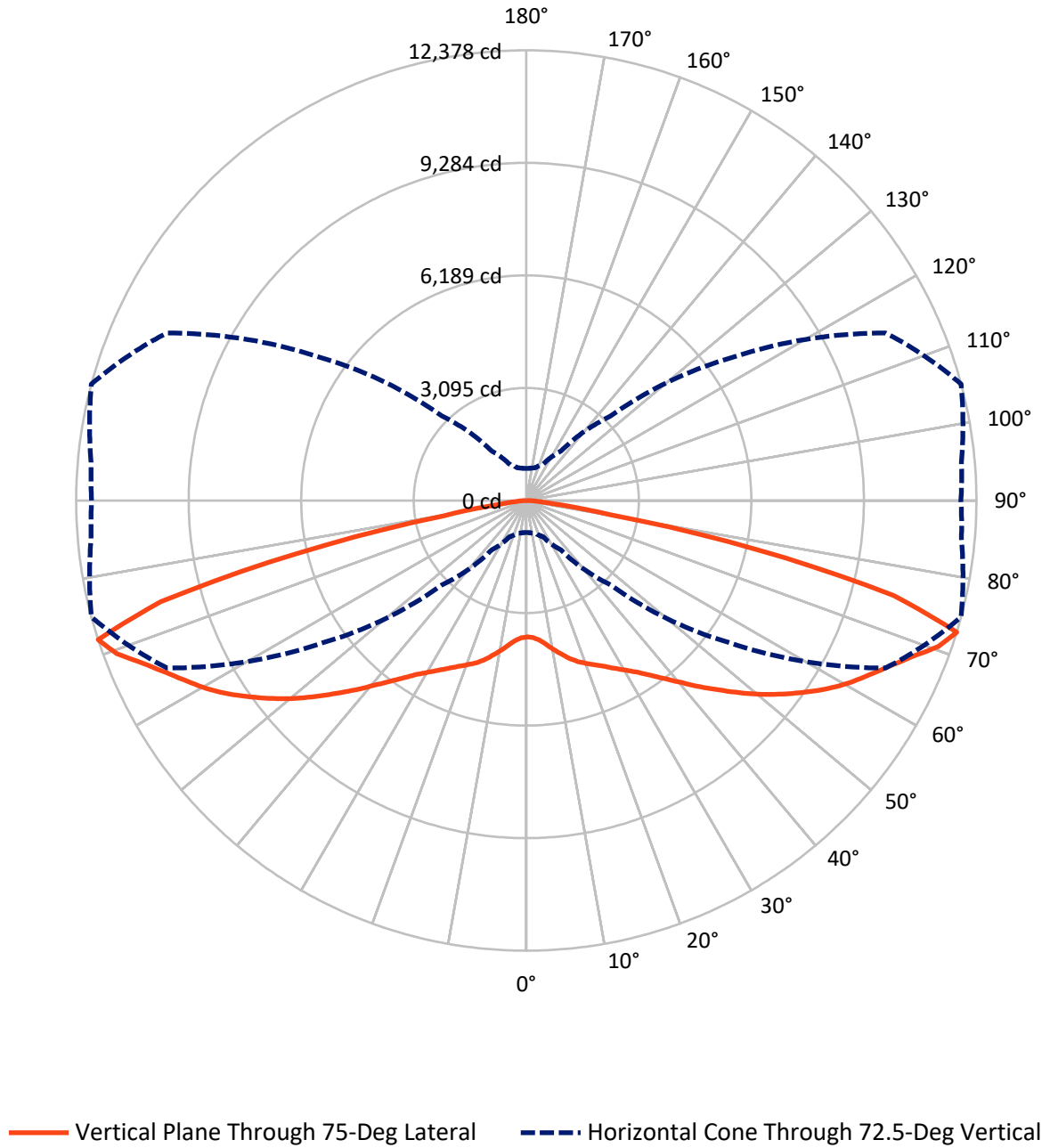
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P951428
CATALOG NUMBER: GALN-SB5C-830-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17502.0	0.0	17502.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17502.0	0.0	17502.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35004.0	0.0	35004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.0
10°-20°	1211.4	3.5
20°-30°	2340.8	6.7
30°-40°	3952.7	11.3
40°-50°	6268.5	17.9
50°-60°	8392.8	24.0
60°-70°	7987.2	22.8
70°-80°	4167.9	11.9
80°-90°	315.5	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°	35004.0	100.0
0°-180°	35004.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951428

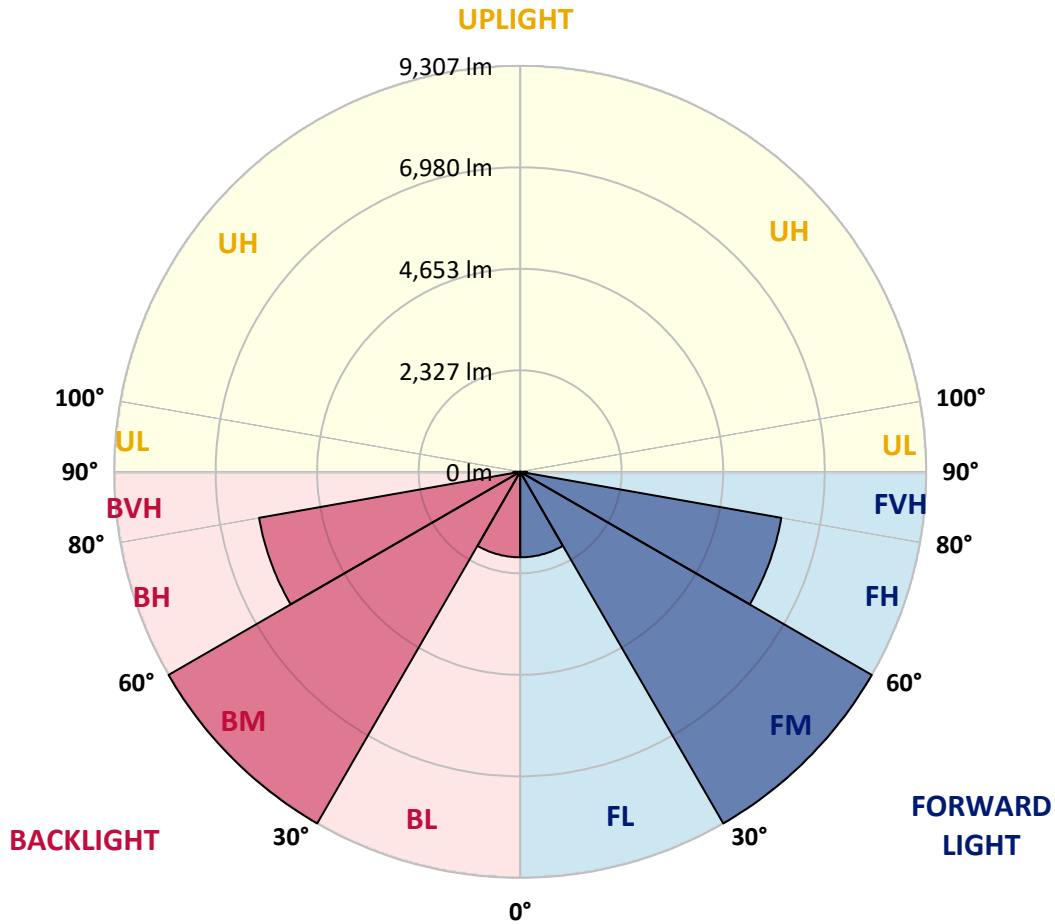
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.8	5.6			
FM (30°-60°)	9306.9	26.6			
FH (60°-80°)	6077.5	17.4			G3/7500
FVH (80°-90°)	157.7	0.5			G2/225
BL (0°-30°)	1959.8	5.6	B3/2500		
BM (30°-60°)	9306.9	26.6	B5		
BH (60°-80°)	6077.5	17.4	B5		G5
BVH (80°-90°)	157.7	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°	3749.6	3749.6	3749.6	3749.6	3749.6	3749.6	3749.6	3749.6	3749.6	3749.6
2.5°	3749.6	3746.0	3749.6	3753.1	3751.3	3751.3	3760.3	3765.6	3776.4	3774.6
5°	3724.5	3722.7	3737.0	3753.1	3765.6	3787.1	3813.9	3833.6	3858.6	3863.9
7.5°	3712.0	3706.7	3731.7	3760.3	3799.6	3853.2	3905.0	3958.7	4001.6	4015.8
10°	3721.0	3722.7	3756.7	3810.3	3872.9	3947.9	4021.2	4112.4	4173.1	4187.4
12.5°	3762.1	3758.5	3815.7	3901.5	3987.3	4082.0	4167.8	4267.8	4334.0	4367.9
15°	3837.1	3830.0	3910.4	4037.3	4162.4	4273.2	4342.9	4437.6	4514.5	4557.4
17.5°	3926.5	3930.1	4035.5	4199.9	4364.4	4489.5	4555.6	4603.8	4662.8	4700.3
20°	4083.8	4090.9	4208.9	4403.7	4591.3	4734.3	4787.9	4770.0	4786.1	4814.7
22.5°	4294.7	4298.2	4430.5	4641.4	4838.0	4995.2	5031.0	4957.7	4913.0	4932.7
25°	4539.5	4562.7	4695.0	4911.2	5113.2	5263.3	5279.4	5168.6	5057.8	5063.2
27.5°	4838.0	4859.4	4993.4	5207.9	5413.4	5543.9	5542.1	5393.8	5231.1	5190.0
30°	5161.4	5184.7	5322.3	5543.9	5735.1	5849.5	5824.5	5647.6	5415.2	5338.4
32.5°	5545.7	5560.0	5699.4	5921.0	6097.9	6189.1	6137.3	5919.2	5629.7	5542.1
35°	6010.4	6031.8	6135.5	6344.6	6500.1	6575.1	6487.6	6230.2	5904.9	5806.6
37.5°	6541.2	6526.9	6644.8	6830.7	6959.4	7005.8	6886.1	6580.5	6219.5	6103.3
40°	7095.2	7088.1	7216.7	7395.5	7465.2	7493.7	7316.8	6982.6	6582.3	6457.2
42.5°	7597.4	7592.0	7765.4	7963.8	8047.8	8015.6	7792.2	7409.7	7002.3	6859.3
45°	7999.5	7992.4	8205.1	8483.9	8648.3	8594.7	8294.4	7881.6	7427.6	7279.3
47.5°	8308.7	8312.3	8541.1	8886.0	9173.7	9193.4	8807.3	8362.3	7895.9	7727.9
50°	8532.1	8542.8	8787.7	9170.1	9563.3	9736.7	9331.0	8855.6	8380.2	8190.8
52.5°	8587.5	8607.2	8902.1	9350.7	9813.5	10144.2	9863.6	9329.2	8839.5	8659.0
55°	8292.6	8331.9	8705.5	9336.4	9967.2	10412.3	10331.8	9810.0	9302.4	9116.5
57.5°	7615.3	7670.7	8106.8	8930.7	9933.3	10596.3	10694.6	10271.1	9765.3	9586.6
60°	6666.3	6732.4	7150.6	8049.6	9454.3	10664.2	10950.2	10719.7	10190.6	10017.3
62.5°	5234.7	5320.5	5820.9	6875.4	8442.8	10347.9	11168.2	11125.3	10573.1	10356.9
65°	3358.2	3449.3	3976.5	5222.2	7093.4	9379.2	11236.2	11520.3	10977.0	10675.0
67.5°	2024.9	2066.0	2326.9	3165.1	5184.7	7919.1	10660.7	11958.2	11448.8	11073.5
70°	1295.7	1319.0	1474.4	1858.7	2931.0	5778.0	9234.5	12040.4	12020.7	11482.8
72.5°	879.3	886.5	927.6	1100.9	1658.5	3283.1	6811.0	10900.2	12378.2	12010.0
75°	643.4	682.7	748.8	779.2	941.9	1640.7	3903.3	7658.2	10431.9	10592.8
77.5°	479.0	480.8	571.9	607.6	672.0	873.9	1651.4	4275.0	6476.8	6800.3
80°	405.7	384.2	382.5	489.7	505.8	545.1	738.1	1476.2	2319.8	1406.5
82.5°	337.8	314.5	284.2	382.5	344.9	334.2	319.9	600.5	738.1	362.8
85°	235.9	225.2	214.5	250.2	196.6	168.0	153.7	280.6	311.0	153.7
87.5°	101.9	105.4	107.2	110.8	82.2	59.0	59.0	78.6	78.6	60.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
3749.6
3772.8
3863.9
4019.4
4201.7
4382.2
4573.5
4718.2
4836.2
4947.0
5072.1
5202.6
5347.3
5563.6
5820.9
6124.7
6498.3
6895.0
7313.2
7777.9
8247.9
8705.5
9168.4
9627.7
10054.8
10381.9
10712.5
11102.1
11479.2
11952.8
10203.2
6065.8
1063.4
309.2
135.8
44.7
0.0

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