

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: P951827

Luminaire Tested: **GALN-SB5D-840-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951827
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-SB5D-840-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50631 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

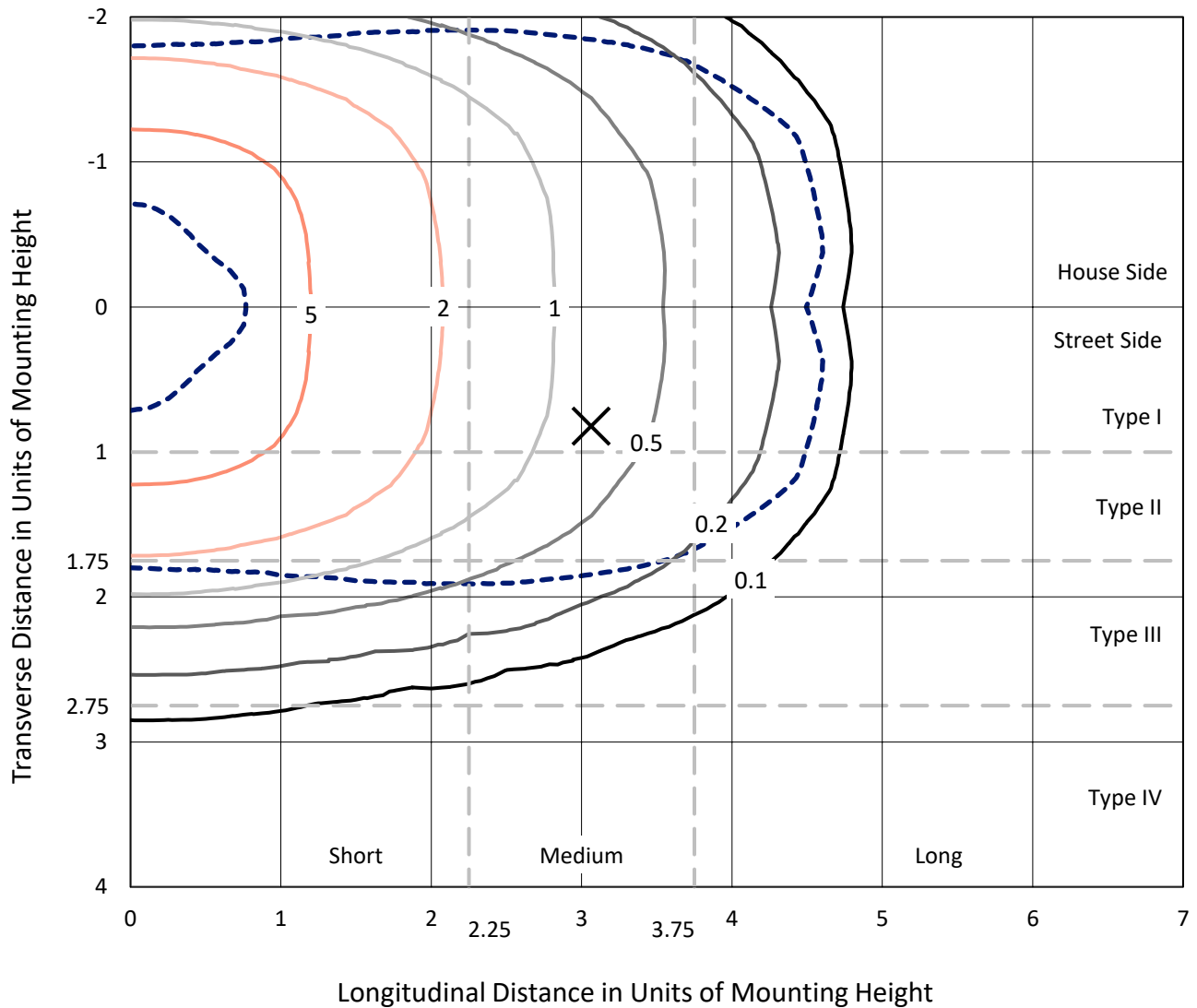
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

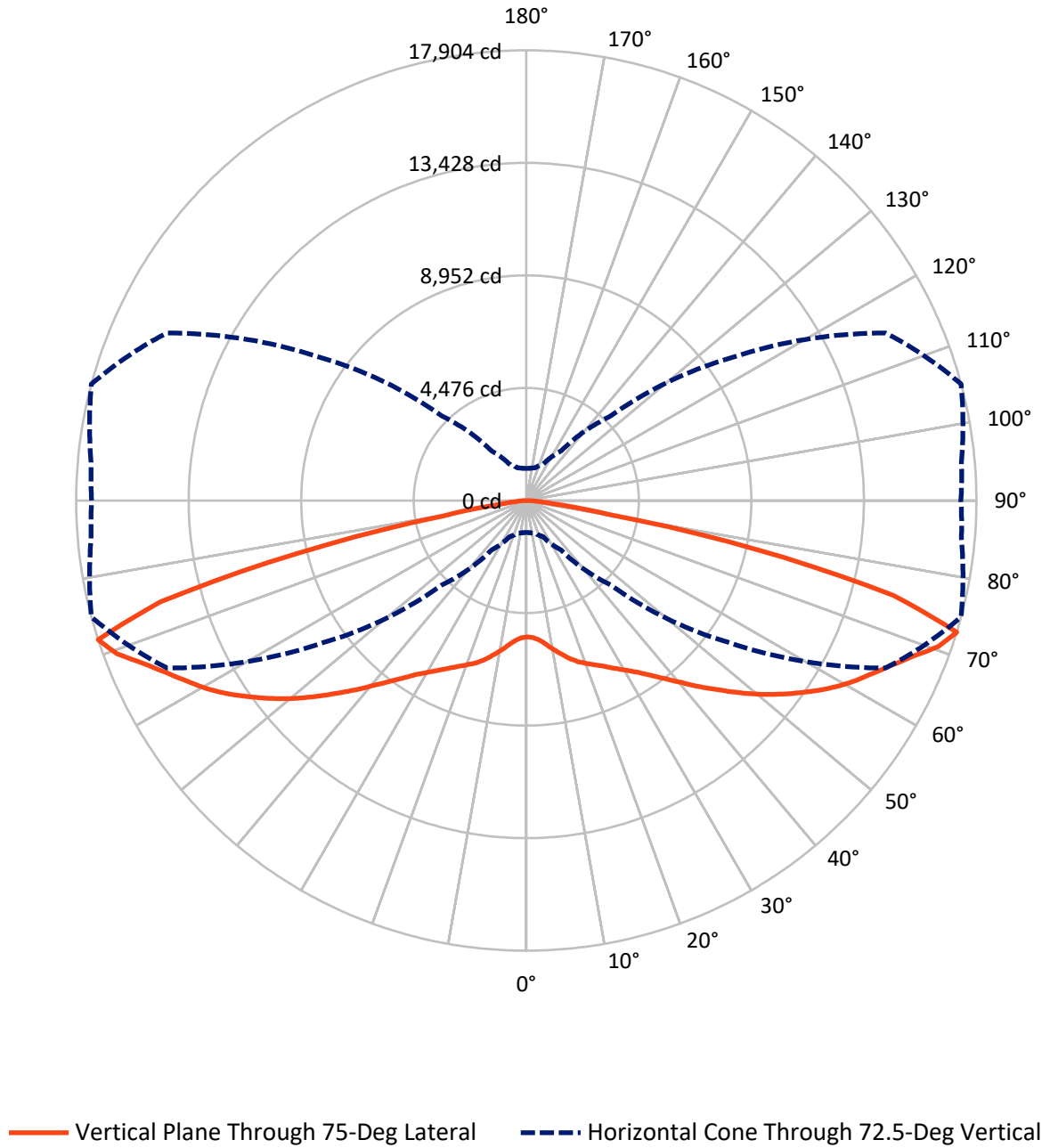
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	25315.5	0.0	25315.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25315.5	0.0	25315.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50631.0	0.0	50631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.3	1.0
10°-20°	1752.3	3.5
20°-30°	3385.9	6.7
30°-40°	5717.3	11.3
40°-50°	9066.9	17.9
50°-60°	12139.6	24.0
60°-70°	11553.0	22.8
70°-80°	6028.5	11.9
80°-90°	456.3	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°	50631.0	100.0
0°-180°	50631.0	100.0

Coefficient of Utilization



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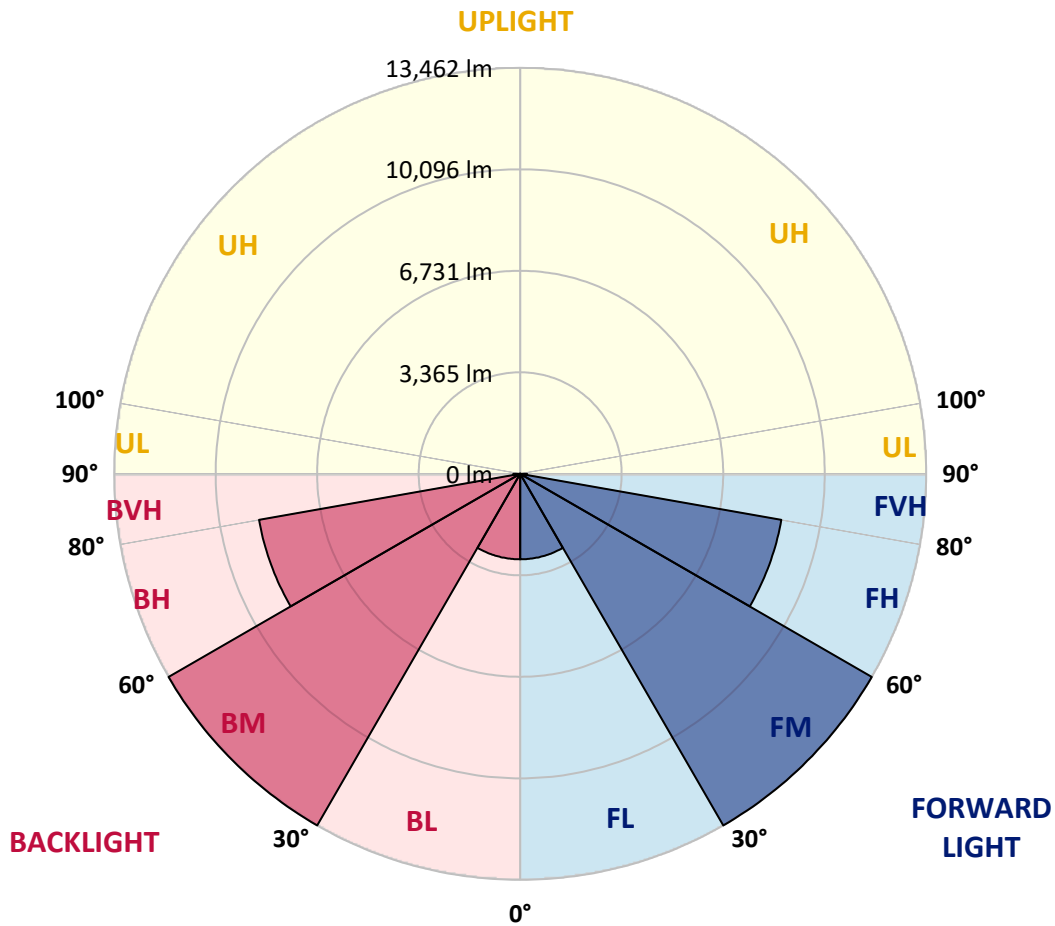
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2834.7	5.6			
FM (30°-60°)	13461.9	26.6			
FH (60°-80°)	8790.8	17.4			G4/12000
FVH (80°-90°)	228.2	0.5			G3/500
BL (0°-30°)	2834.7	5.6	B4/5000		
BM (30°-60°)	13461.9	26.6	B5		
BH (60°-80°)	8790.8	17.4	B5		G5
BVH (80°-90°)	228.2	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°	5423.5	5423.5	5423.5	5423.5	5423.5	5423.5	5423.5	5423.5	5423.5	5423.5
2.5°	5423.5	5418.3	5423.5	5428.7	5426.1	5426.1	5439.0	5446.8	5462.3	5459.7
5°	5387.3	5384.7	5405.4	5428.7	5446.8	5477.8	5516.5	5545.0	5581.2	5588.9
7.5°	5369.2	5361.4	5397.6	5439.0	5495.9	5573.4	5648.4	5725.9	5788.0	5808.7
10°	5382.1	5384.7	5433.8	5511.4	5601.9	5710.4	5816.4	5948.3	6036.1	6056.8
12.5°	5441.6	5436.4	5519.1	5643.2	5767.3	5904.3	6028.4	6173.2	6268.8	6317.9
15°	5550.2	5539.8	5656.1	5839.7	6020.6	6180.9	6281.7	6418.7	6529.9	6591.9
17.5°	5679.4	5684.6	5837.1	6074.9	6312.8	6493.7	6589.4	6659.2	6744.5	6798.7
20°	5906.9	5917.2	6087.9	6369.6	6641.1	6847.9	6925.4	6899.6	6922.8	6964.2
22.5°	6211.9	6217.1	6408.4	6713.4	6997.8	7225.3	7277.0	7171.0	7106.4	7134.8
25°	6566.1	6599.7	6791.0	7103.8	7395.9	7613.0	7636.3	7476.0	7315.8	7323.5
27.5°	6997.8	7028.8	7222.7	7532.9	7830.2	8018.9	8016.3	7801.8	7566.5	7507.1
30°	7465.7	7499.3	7698.4	8018.9	8295.5	8460.9	8424.8	8168.8	7832.8	7721.6
32.5°	8021.5	8042.2	8243.8	8564.4	8820.3	8952.1	8877.1	8561.8	8143.0	8016.3
35°	8693.6	8724.6	8874.6	9177.0	9401.9	9510.5	9383.8	9011.6	8541.1	8398.9
37.5°	9461.4	9440.7	9611.3	9880.2	10066.3	10133.5	9960.3	9518.2	8996.1	8828.0
40°	10262.7	10252.4	10438.5	10697.0	10797.9	10839.2	10583.3	10099.9	9520.8	9339.9
42.5°	10989.2	10981.4	11232.1	11519.1	11640.6	11594.1	11270.9	10717.7	10128.3	9921.5
45°	11570.8	11560.5	11868.1	12271.3	12509.2	12431.6	11997.3	11400.2	10743.6	10529.0
47.5°	12018.0	12023.2	12354.1	12853.0	13269.2	13297.6	12739.2	12095.6	11420.9	11177.9
50°	12341.1	12356.7	12710.8	13264.0	13832.7	14083.5	13496.7	12809.0	12121.4	11847.4
52.5°	12421.3	12449.7	12876.3	13525.1	14194.6	14672.9	14267.0	13494.1	12785.8	12524.7
55°	11994.7	12051.6	12591.9	13504.4	14417.0	15060.6	14944.3	14189.5	13455.3	13186.5
57.5°	11015.0	11095.1	11725.9	12917.6	14367.8	15326.9	15469.1	14856.4	14124.8	13866.3
60°	9642.3	9738.0	10342.9	11643.2	13675.0	15425.1	15838.8	15505.3	14740.1	14489.3
62.5°	7571.7	7695.8	8419.6	9944.8	12211.9	14967.6	16154.1	16092.1	15293.3	14980.5
65°	4857.4	4989.2	5751.8	7553.6	10260.2	13566.5	16252.4	16663.4	15877.5	15440.7
67.5°	2928.9	2988.3	3365.8	4578.2	7499.3	11454.5	15420.0	17296.7	16560.0	16017.1
70°	1874.2	1907.8	2132.7	2688.5	4239.5	8357.5	13357.1	17415.6	17387.2	16609.1
72.5°	1271.9	1282.2	1341.7	1592.4	2398.9	4748.8	9851.7	15766.4	17904.2	17371.7
75°	930.6	987.5	1083.1	1127.1	1362.3	2373.1	5645.8	11077.0	15089.1	15321.7
77.5°	692.8	695.4	827.2	878.9	972.0	1264.1	2388.6	6183.5	9368.3	9836.2
80°	586.8	555.8	553.2	708.3	731.6	788.4	1067.6	2135.3	3355.4	2034.5
82.5°	488.6	455.0	411.0	553.2	498.9	483.4	462.7	868.6	1067.6	524.8
85°	341.2	325.7	310.2	361.9	284.4	243.0	222.3	405.9	449.8	222.3
87.5°	147.3	152.5	155.1	160.3	118.9	85.3	85.3	113.7	113.7	87.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5423.5
5457.1
5588.9
5813.8
6077.5
6338.6
6615.2
6824.6
6995.2
7155.5
7336.4
7525.2
7734.5
8047.3
8419.6
8859.1
9399.3
9973.2
10578.1
11250.2
11930.1
12591.9
13261.4
13925.8
14543.6
15016.7
15494.9
16058.5
16603.9
17289.0
14758.2
8773.7
1538.1
447.2
196.5
64.6
0.0

OF REPORT)