

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: P951785

Luminaire Tested: **GALN-SB5D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951785
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-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47563 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

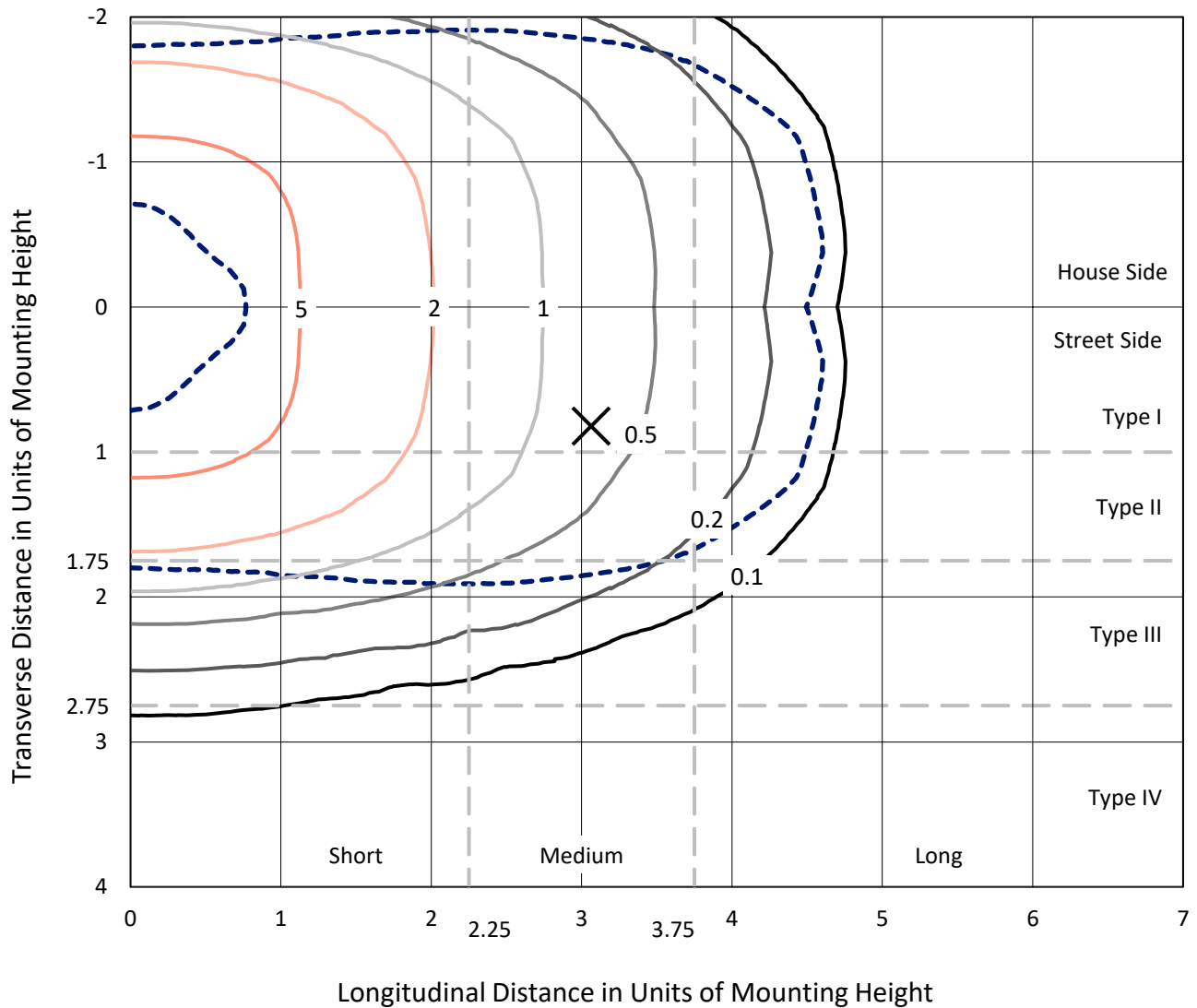
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

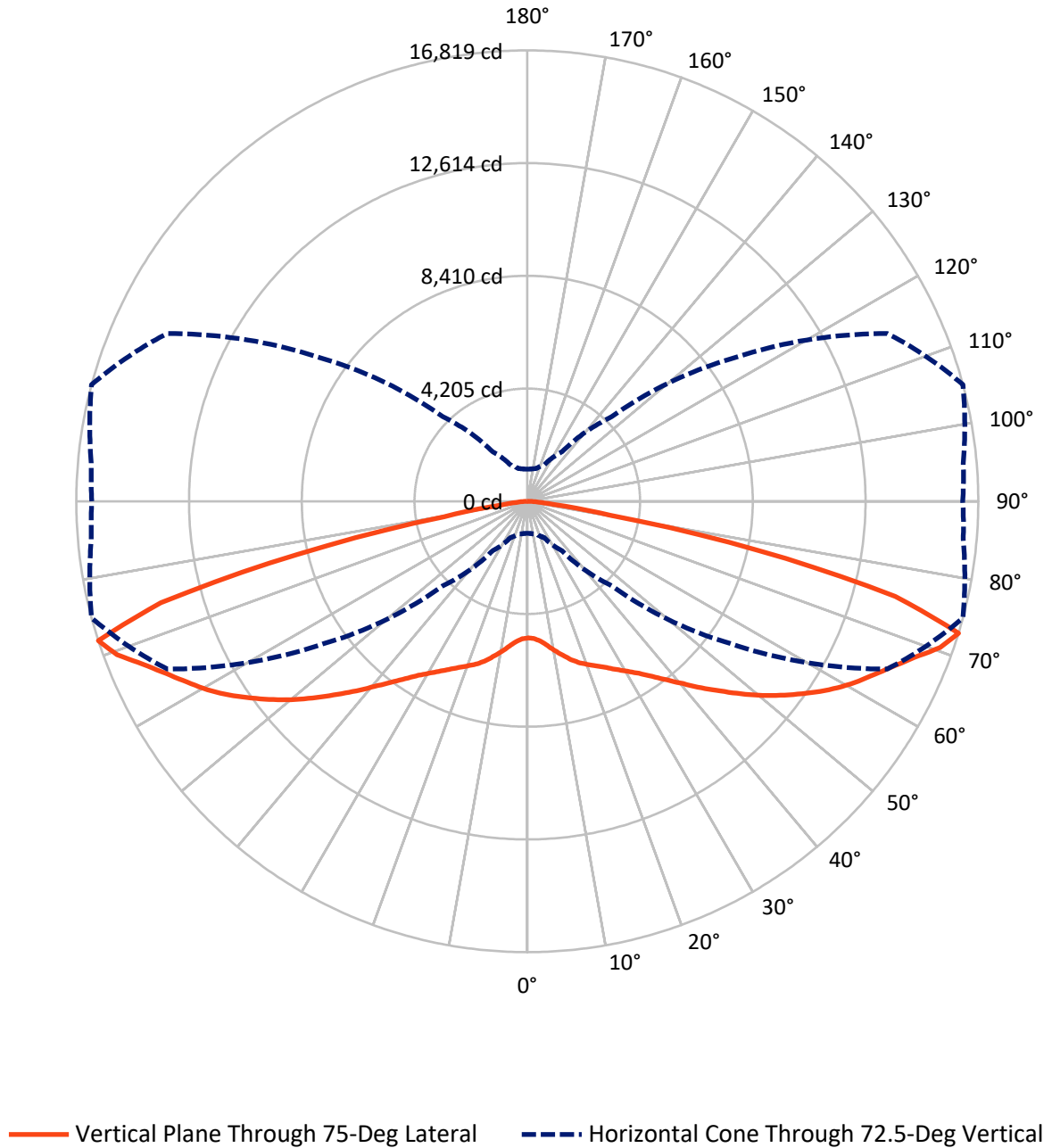
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	23781.5	0.0	23781.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23781.5	0.0	23781.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47563.0	0.0	47563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.1	1.0
10°-20°	1646.1	3.5
20°-30°	3180.7	6.7
30°-40°	5370.8	11.3
40°-50°	8517.5	17.9
50°-60°	11404.0	24.0
60°-70°	10852.9	22.8
70°-80°	5663.2	11.9
80°-90°	428.7	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°	47563.0	100.0
0°-180°	47563.0	100.0

Coefficient of Utilization



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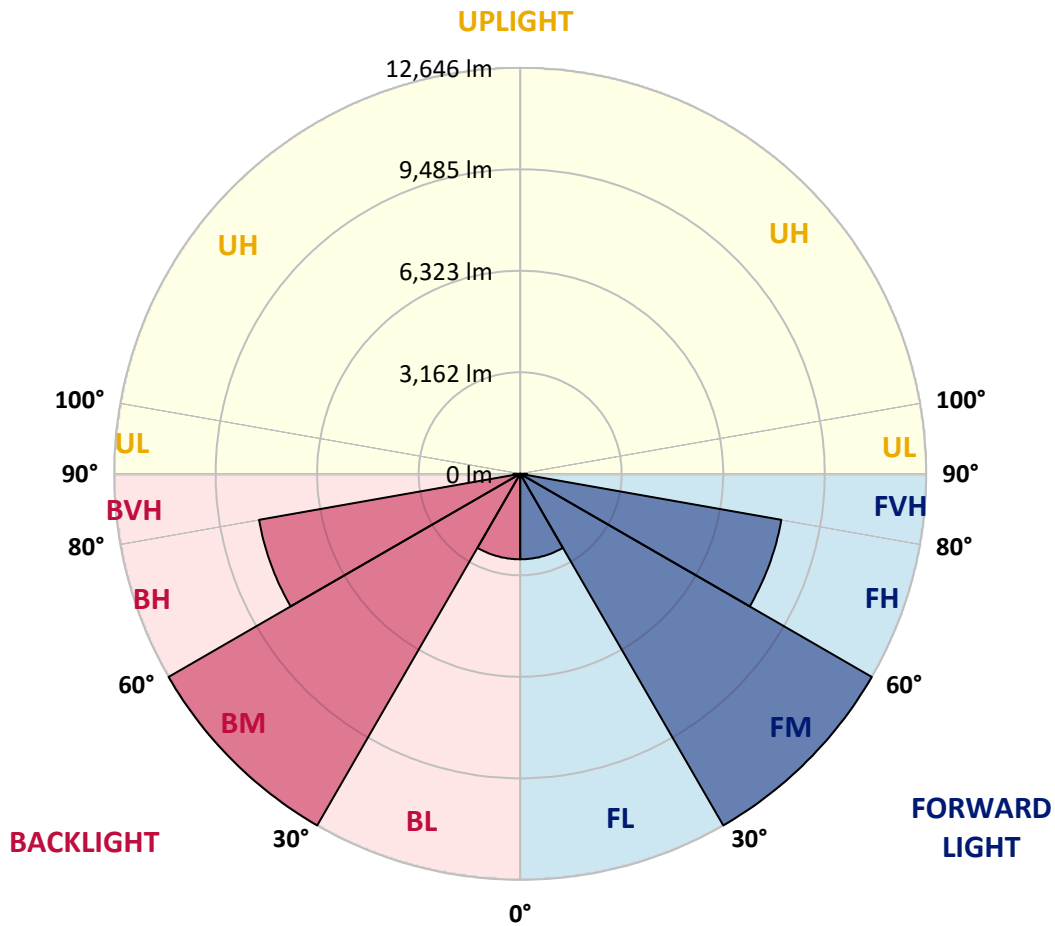
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2662.9	5.6			
FM (30°-60°)	12646.1	26.6			
FH (60°-80°)	8258.1	17.4			G4/12000
FVH (80°-90°)	214.3	0.5			G2/225
BL (0°-30°)	2662.9	5.6	B4/5000		
BM (30°-60°)	12646.1	26.6	B5		
BH (60°-80°)	8258.1	17.4	B5		G5
BVH (80°-90°)	214.3	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°	5094.8	5094.8	5094.8	5094.8	5094.8	5094.8	5094.8	5094.8	5094.8	5094.8
2.5°	5094.8	5090.0	5094.8	5099.7	5097.3	5097.3	5109.4	5116.7	5131.3	5128.8
5°	5060.9	5058.4	5077.8	5099.7	5116.7	5145.8	5182.3	5209.0	5243.0	5250.3
7.5°	5043.9	5036.6	5070.6	5109.4	5162.8	5235.7	5306.1	5379.0	5437.3	5456.7
10°	5056.0	5058.4	5104.6	5177.4	5262.4	5364.4	5464.0	5587.8	5670.4	5689.8
12.5°	5111.8	5107.0	5184.7	5301.3	5417.8	5546.5	5663.1	5799.1	5888.9	5935.1
15°	5213.8	5204.1	5313.4	5485.8	5655.8	5806.4	5901.1	6029.8	6134.2	6192.5
17.5°	5335.3	5340.1	5483.4	5706.8	5930.2	6100.2	6190.1	6255.6	6335.8	6386.8
20°	5549.0	5558.7	5719.0	5983.7	6238.6	6432.9	6505.8	6481.5	6503.3	6542.2
22.5°	5835.5	5840.4	6020.1	6306.6	6573.8	6787.5	6836.0	6736.5	6675.8	6702.5
25°	6168.2	6199.8	6379.5	6673.3	6947.7	7151.7	7173.6	7023.0	6872.5	6879.7
27.5°	6573.8	6602.9	6785.0	7076.4	7355.7	7533.0	7530.6	7329.0	7108.0	7052.2
30°	7013.3	7044.9	7231.9	7533.0	7792.8	7948.3	7914.3	7673.8	7358.1	7253.7
32.5°	7535.4	7554.8	7744.3	8045.4	8285.8	8409.7	8339.2	8043.0	7649.6	7530.6
35°	8166.8	8196.0	8336.8	8620.9	8832.2	8934.2	8815.2	8465.5	8023.5	7890.0
37.5°	8888.1	8868.6	9028.9	9281.5	9456.3	9519.5	9356.7	8941.5	8450.9	8293.1
40°	9640.9	9631.2	9806.0	10048.8	10143.6	10182.4	9942.0	9487.9	8943.9	8773.9
42.5°	10323.3	10316.0	10551.5	10821.1	10935.2	10891.5	10588.0	10068.3	9514.6	9320.3
45°	10869.7	10859.9	11148.9	11527.8	11751.2	11678.3	11270.3	10709.4	10092.6	9891.0
47.5°	11289.8	11294.6	11605.5	12074.2	12465.1	12491.9	11967.3	11362.6	10728.8	10500.5
50°	11593.3	11607.9	11940.6	12460.3	12994.5	13230.1	12678.8	12032.9	11386.9	11129.5
52.5°	11668.6	11695.3	12096.0	12705.6	13334.5	13783.8	13402.5	12676.4	12011.0	11765.7
55°	11267.9	11321.3	11828.9	12686.1	13543.4	14148.0	14038.8	13329.7	12640.0	12387.4
57.5°	10347.5	10422.8	11015.4	12134.9	13497.2	14398.2	14531.7	13956.2	13268.9	13026.1
60°	9058.0	9147.9	9716.2	10937.7	12846.4	14490.4	14879.0	14565.7	13846.9	13611.4
62.5°	7112.9	7229.4	7909.4	9342.2	11471.9	14060.6	15175.3	15117.0	14366.6	14072.8
65°	4563.0	4686.9	5403.3	7095.9	9638.4	12744.4	15267.5	15653.7	14915.4	14505.0
67.5°	2751.4	2807.3	3161.8	4300.8	7044.9	10760.4	14485.6	16248.6	15556.5	15046.6
70°	1760.6	1792.2	2003.5	2525.6	3982.6	7851.1	12547.7	16360.3	16333.6	15602.7
72.5°	1194.8	1204.5	1260.4	1495.9	2253.6	4461.0	9254.8	14811.0	16819.3	16319.1
75°	874.2	927.7	1017.5	1058.8	1279.8	2229.3	5303.7	10405.8	14174.8	14393.3
77.5°	650.8	653.2	777.1	825.7	913.1	1187.5	2243.9	5808.8	8800.6	9240.2
80°	551.3	522.1	519.7	665.4	687.2	740.7	1002.9	2005.9	3152.1	1911.2
82.5°	459.0	427.4	386.1	519.7	468.7	454.1	434.7	816.0	1002.9	493.0
85°	320.6	306.0	291.4	340.0	267.1	228.3	208.8	381.3	422.5	208.8
87.5°	138.4	143.3	145.7	150.6	111.7	80.1	80.1	106.9	106.9	82.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5094.8
5126.4
5250.3
5461.5
5709.2
5954.5
6214.4
6411.1
6571.3
6721.9
6891.9
7069.2
7265.9
7559.7
7909.4
8322.2
8829.8
9368.9
9937.1
10568.5
11207.2
11828.9
12457.9
13082.0
13662.4
14106.8
14556.0
15085.4
15597.8
16241.3
13863.9
8242.1
1444.9
420.1
184.6
60.7
0.0

OF REPORT)