

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: P956069

Luminaire Tested: **GALN-SB8D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956069
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-SB8D-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 76137 lumens
Efficiency: N/A
Efficacy: 130.2 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

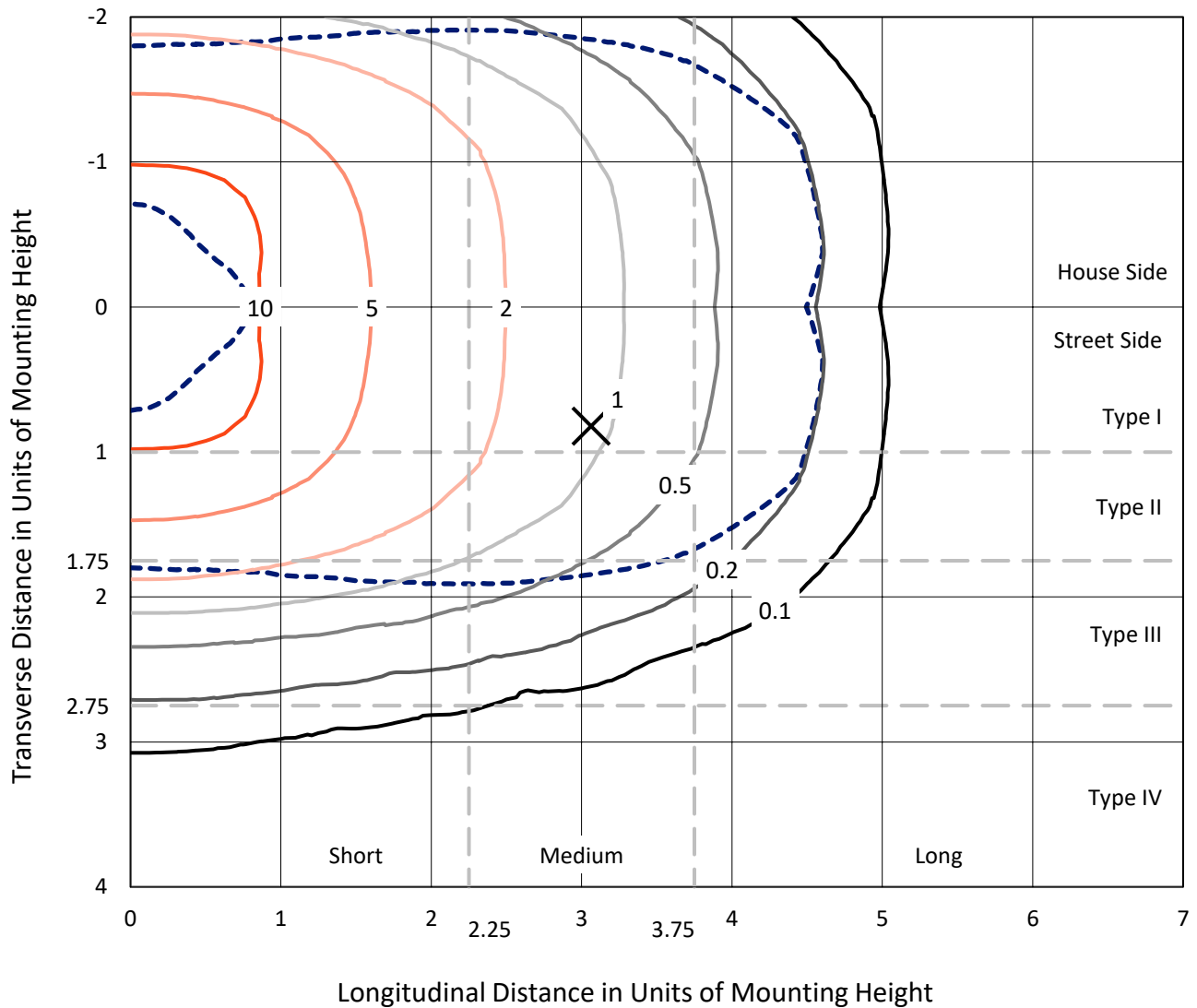
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

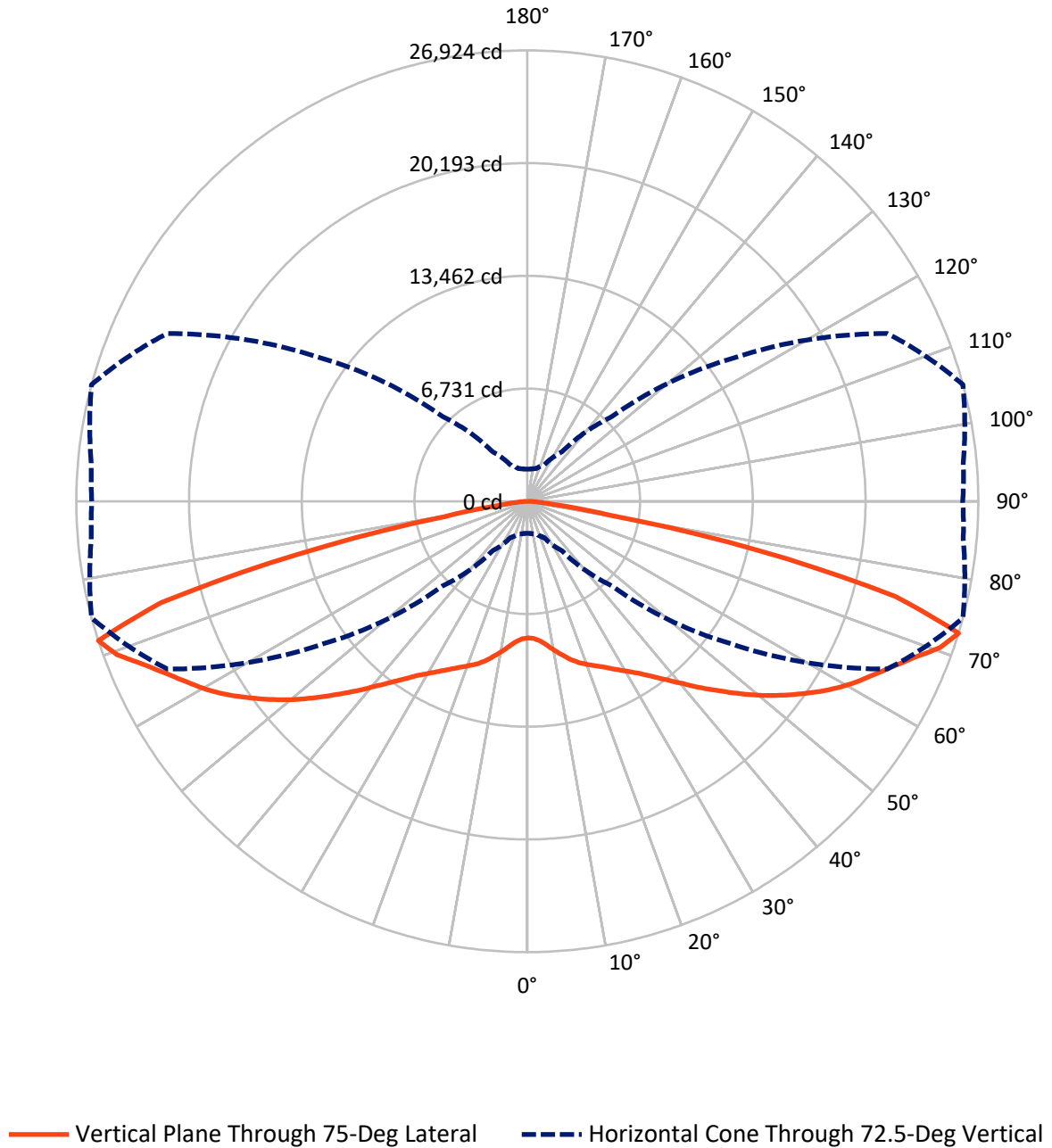
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	38068.5	0.0	38068.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	38068.5	0.0	38068.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	76137.0	0.0	76137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.9	1.0
10°-20°	2635.0	3.5
20°-30°	5091.6	6.7
30°-40°	8597.4	11.3
40°-50°	13634.5	17.9
50°-60°	18255.0	24.0
60°-70°	17372.9	22.8
70°-80°	9065.5	11.9
80°-90°	686.2	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°	76137.0	100.0
0°-180°	76137.0	100.0

Coefficient of Utilization

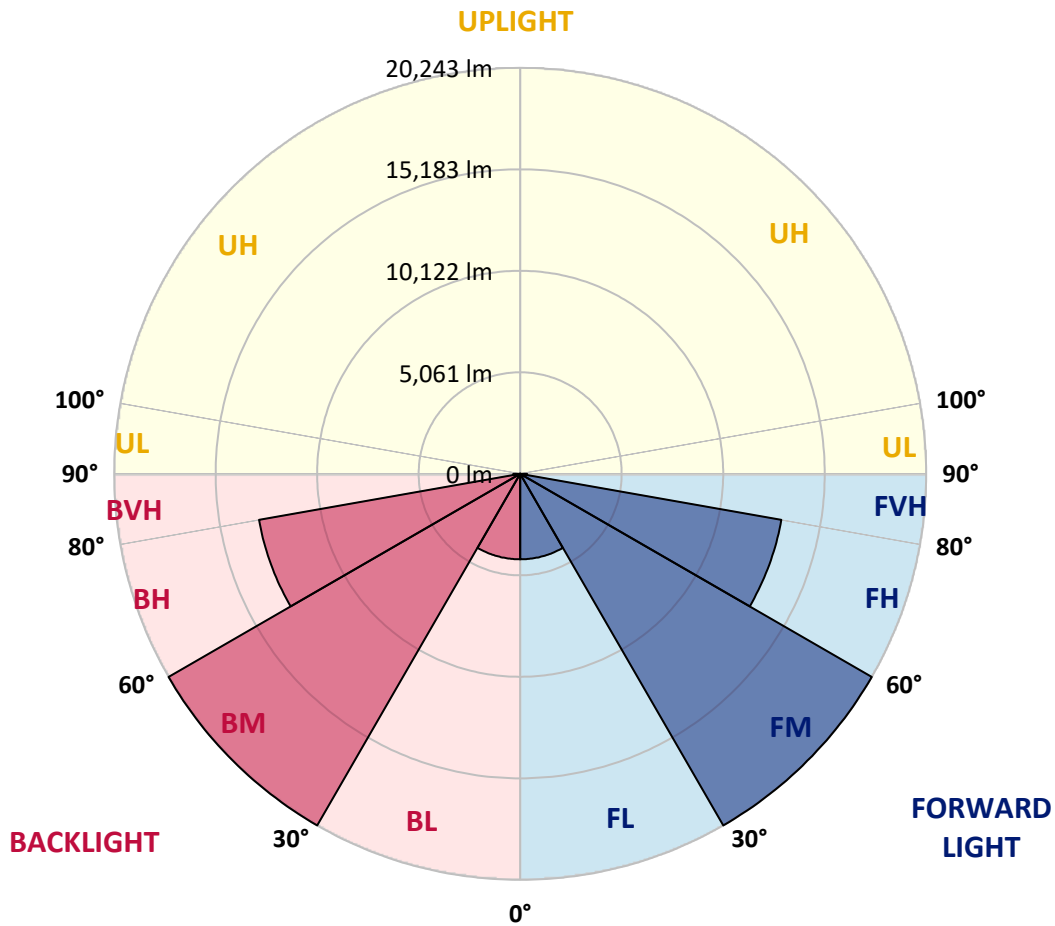


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4262.7	5.6			
FM (30°-60°)	20243.5	26.6			
FH (60°-80°)	13219.2	17.4			G5
FVH (80°-90°)	343.1	0.5			G3/500
BL (0°-30°)	4262.7	5.6	B4/5000		
BM (30°-60°)	20243.5	26.6	B5		
BH (60°-80°)	13219.2	17.4	B5		G5
BVH (80°-90°)	343.1	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°	8155.6	8155.6	8155.6	8155.6	8155.6	8155.6	8155.6	8155.6	8155.6	8155.6
2.5°	8155.6	8147.9	8155.6	8163.4	8159.5	8159.5	8179.0	8190.6	8213.9	8210.1
5°	8101.2	8097.3	8128.4	8163.4	8190.6	8237.3	8295.6	8338.3	8392.8	8404.4
7.5°	8074.0	8062.3	8116.8	8179.0	8264.5	8381.1	8493.8	8610.5	8703.8	8734.8
10°	8093.4	8097.3	8171.2	8287.8	8423.9	8587.1	8746.5	8944.8	9076.9	9108.0
12.5°	8182.8	8175.1	8299.5	8486.1	8672.7	8878.7	9065.3	9283.0	9426.8	9500.7
15°	8346.1	8330.6	8505.5	8781.5	9053.6	9294.6	9446.2	9652.3	9819.4	9912.7
17.5°	8540.5	8548.3	8777.6	9135.2	9492.9	9765.0	9908.8	10013.8	10142.1	10223.7
20°	8882.6	8898.1	9154.7	9578.4	9986.6	10297.6	10414.2	10375.3	10410.3	10472.5
22.5°	9341.3	9349.0	9636.7	10095.4	10523.0	10865.1	10942.9	10783.5	10686.3	10729.1
25°	9873.8	9924.4	10212.0	10682.4	11121.7	11448.2	11483.2	11242.2	11001.2	11012.8
27.5°	10523.0	10569.7	10861.2	11327.7	11774.7	12058.5	12054.6	11732.0	11378.2	11288.8
30°	11226.6	11277.2	11576.5	12058.5	12474.5	12723.3	12668.8	12284.0	11778.6	11611.5
32.5°	12062.4	12093.5	12396.7	12878.8	13263.6	13461.9	13349.1	12874.9	12245.1	12054.6
35°	13073.1	13119.8	13345.2	13800.1	14138.2	14301.5	14111.0	13551.3	12843.8	12630.0
37.5°	14227.7	14196.6	14453.1	14857.4	15137.3	15238.4	14977.9	14313.2	13527.9	13275.3
40°	15432.7	15417.2	15697.1	16085.8	16237.4	16299.6	15914.8	15187.8	14317.1	14045.0
42.5°	16525.1	16513.4	16890.5	17322.0	17504.7	17434.7	16948.8	16116.9	15230.6	14919.6
45°	17399.7	17384.2	17846.8	18453.2	18810.8	18694.2	18041.1	17143.2	16155.8	15833.1
47.5°	18072.2	18080.0	18577.6	19327.8	19953.7	19996.5	19156.8	18188.9	17174.3	16808.9
50°	18558.2	18581.5	19114.0	19945.9	20801.1	21178.2	20295.8	19261.8	18227.7	17815.7
52.5°	18678.7	18721.4	19362.8	20338.6	21345.4	22064.5	21454.2	20291.9	19226.8	18834.2
55°	18037.2	18122.8	18935.2	20307.5	21679.7	22647.6	22472.7	21337.6	20233.6	19829.3
57.5°	16563.9	16684.5	17633.0	19425.0	21605.8	23048.0	23261.8	22340.5	21240.4	20851.7
60°	14499.8	14643.6	15553.2	17508.6	20564.0	23195.7	23817.7	23316.3	22165.6	21788.5
62.5°	11386.0	11572.6	12661.1	14954.6	18363.8	22507.7	24292.0	24198.7	22997.5	22527.1
65°	7304.3	7502.6	8649.3	11358.8	15428.8	20400.8	24439.7	25057.8	23876.0	23219.1
67.5°	4404.4	4493.8	5061.3	6884.5	11277.2	17224.8	23188.0	26010.2	24902.3	24085.9
70°	2818.3	2868.9	3207.1	4042.8	6375.2	12567.8	20085.9	26189.0	26146.2	24976.1
72.5°	1912.6	1928.1	2017.5	2394.6	3607.4	7141.0	14814.6	23708.9	26923.7	26122.9
75°	1399.4	1485.0	1628.8	1694.9	2048.6	3568.6	8489.9	16657.2	22690.4	23040.3
77.5°	1041.8	1045.7	1243.9	1321.7	1461.6	1900.9	3591.9	9298.5	14087.7	14791.3
80°	882.4	835.8	831.9	1065.1	1100.1	1185.6	1605.5	3210.9	5045.8	3059.3
82.5°	734.7	684.2	618.1	831.9	750.3	726.9	695.8	1306.1	1605.5	789.1
85°	513.1	489.8	466.5	544.2	427.6	365.4	334.3	610.3	676.4	334.3
87.5°	221.6	229.4	233.2	241.0	178.8	128.3	128.3	171.0	171.0	132.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8155.6
8206.2
8404.4
8742.6
9139.1
9531.8
9947.7
10262.6
10519.1
10760.2
11032.3
11316.0
11630.9
12101.3
12661.1
13321.9
14134.4
14997.4
15907.0
16917.7
17940.1
18935.2
19942.0
20941.1
21870.2
22581.5
23300.7
24148.1
24968.4
25998.5
22192.8
13193.6
2313.0
672.5
295.4
97.2
0.0

OF REPORT)