

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: P956066

Luminaire Tested: **GALN-SB8D-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
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-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77478 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

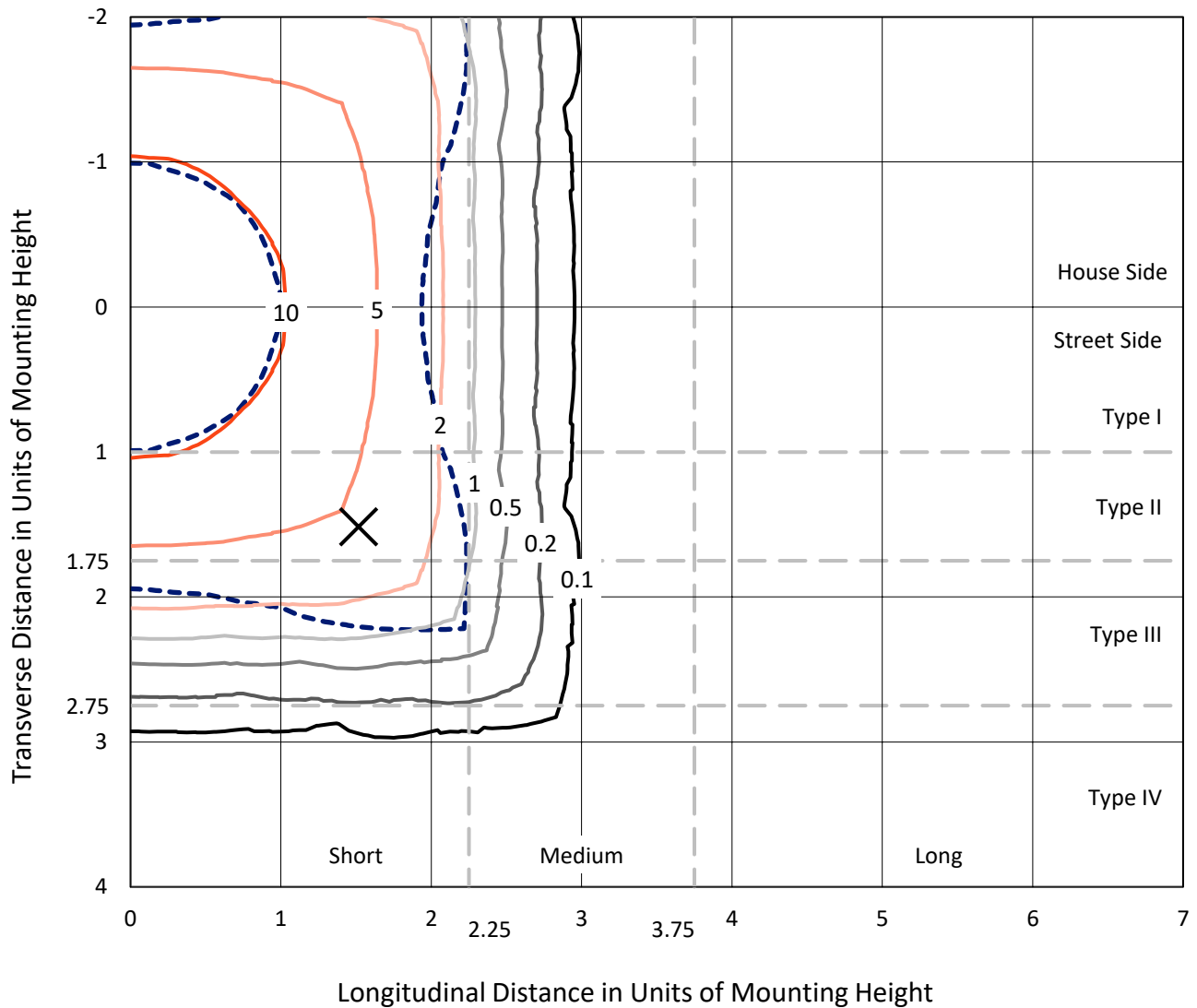
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

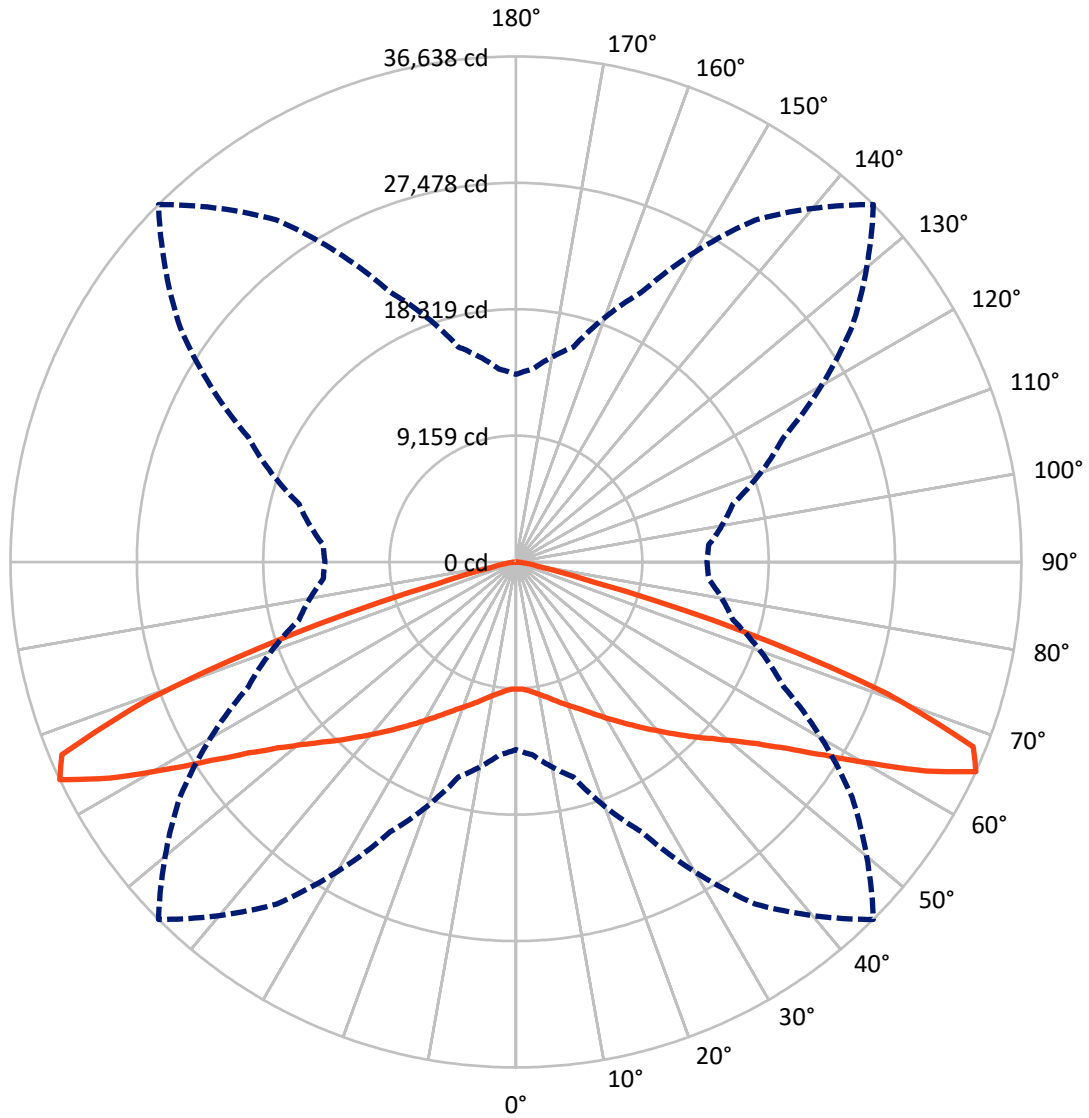
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38739.0	0.0	38739.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	38739.0	0.0	38739.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	77478.0	0.0	77478.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.0	1.2
10°-20°	2969.4	3.8
20°-30°	5606.5	7.2
30°-40°	9180.4	11.8
40°-50°	14234.4	18.4
50°-60°	21027.1	27.1
60°-70°	20015.9	25.8
70°-80°	3229.8	4.2
80°-90°	304.5	0.4
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°	77478.0	100.0
0°-180°	77478.0	100.0

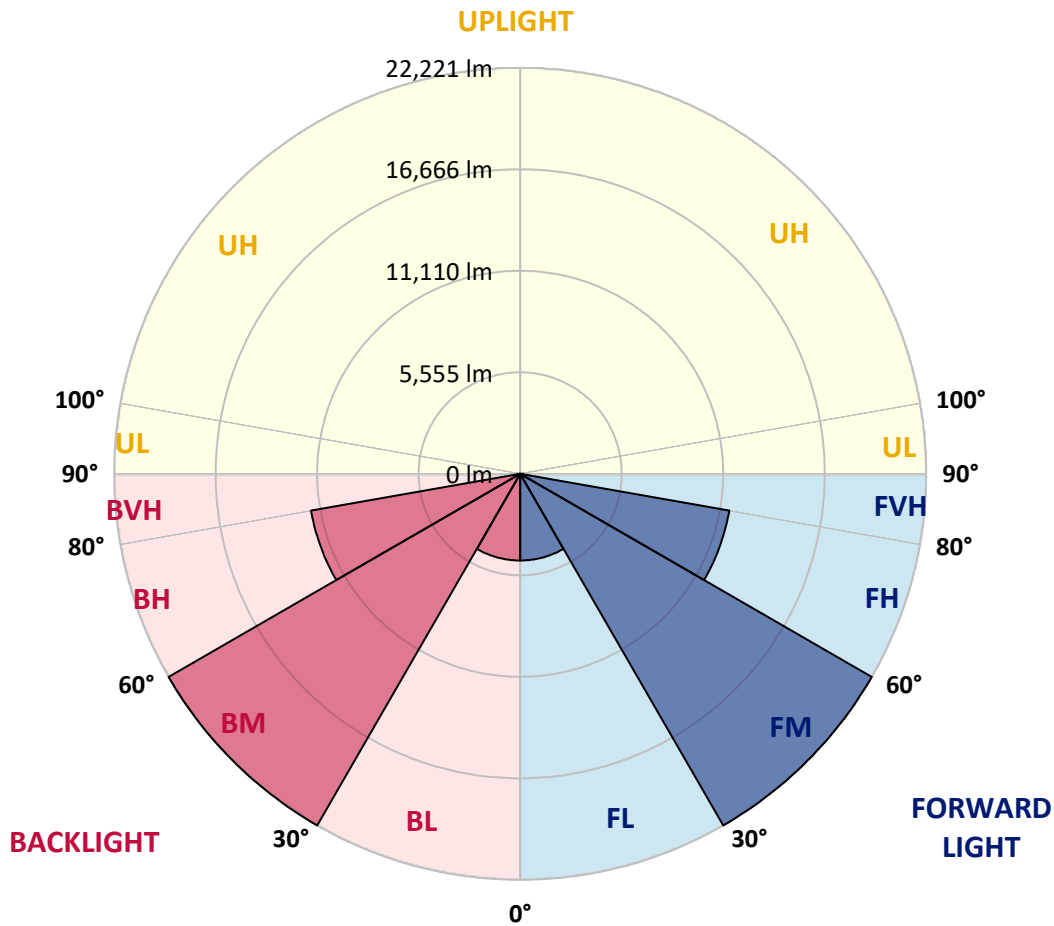


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4742.9	6.1			
FM (30°-60°)	22221.0	28.7			
FH (60°-80°)	11622.9	15.0			G4/12000
FVH (80°-90°)	152.2	0.2			G2/225
BL (0°-30°)	4742.9	6.1	B4/5000		
BM (30°-60°)	22221.0	28.7	B5		
BH (60°-80°)	11622.9	15.0	B5		G4/12000
BVH (80°-90°)	152.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9220.7	9220.7	9220.7	9220.7	9220.7	9220.7	9220.7	9220.7	9220.7	9220.7
2.5°	9282.9	9251.8	9275.1	9255.6	9240.1	9224.5	9232.3	9259.5	9271.2	9275.1
5°	9407.2	9380.0	9391.7	9391.7	9364.5	9356.7	9360.6	9380.0	9403.4	9403.4
7.5°	9609.4	9582.2	9609.4	9593.8	9570.5	9562.7	9558.9	9574.4	9609.4	9609.4
10°	9854.3	9823.2	9838.7	9831.0	9803.8	9792.1	9788.2	9811.5	9842.6	9838.7
12.5°	10122.5	10087.5	10107.0	10083.6	10075.9	10064.2	10064.2	10060.3	10079.7	10064.2
15°	10421.8	10398.5	10406.3	10390.7	10402.4	10394.6	10363.5	10348.0	10355.7	10332.4
17.5°	10775.6	10721.2	10748.4	10740.6	10740.6	10756.1	10705.6	10686.2	10701.7	10678.4
20°	11183.7	11129.3	11141.0	11125.4	11106.0	11121.5	11059.3	11074.9	11086.6	11071.0
22.5°	11630.8	11560.8	11556.9	11564.7	11521.9	11525.8	11483.1	11521.9	11545.3	11502.5
25°	12089.5	12015.6	12066.2	12046.7	11992.3	12004.0	11972.9	12011.7	12031.2	11976.7
27.5°	12575.4	12524.9	12571.5	12583.2	12517.1	12563.7	12517.1	12552.1	12571.5	12489.9
30°	13142.9	13092.4	13135.2	13166.3	13088.5	13162.4	13123.5	13146.8	13150.7	13053.5
32.5°	13761.0	13683.3	13792.1	13807.7	13722.1	13811.5	13761.0	13792.1	13811.5	13679.4
35°	14515.1	14418.0	14542.4	14522.9	14449.1	14522.9	14476.3	14522.9	14569.6	14410.2
37.5°	15327.6	15226.5	15358.7	15323.7	15253.7	15304.3	15277.1	15308.2	15382.0	15211.0
40°	16221.7	16097.3	16276.1	16213.9	16147.8	16140.0	16155.6	16175.0	16272.2	16081.7
42.5°	17177.9	17045.8	17314.0	17216.8	17123.5	17061.3	17111.9	17150.7	17244.0	17030.2
45°	18270.3	18118.7	18468.5	18351.9	18204.2	18075.9	18157.5	18215.9	18351.9	18095.3
47.5°	19475.3	19304.3	19677.5	19642.5	19401.5	19121.6	19308.2	19475.3	19576.4	19265.4
50°	20653.2	20521.0	21010.8	21053.6	20758.1	20365.5	20626.0	20878.6	20905.9	20497.7
52.5°	21757.2	21625.0	22336.4	22604.6	22340.3	21873.8	22149.8	22406.4	22200.3	21671.7
55°	22639.6	22530.7	23436.5	24128.4	24217.8	23833.0	23996.3	23988.5	23312.1	22499.6
57.5°	22853.4	22837.8	23980.7	25446.2	26379.2	26425.8	26103.2	25279.1	23821.3	22729.0
60°	21881.6	21978.7	23549.2	26134.3	28622.1	29656.2	28260.6	25908.8	23242.1	21726.1
62.5°	18973.9	19230.4	21123.5	25294.6	30433.6	33372.4	29990.5	24952.5	20863.1	18884.5
65°	13597.7	14044.8	16136.1	21586.1	30270.3	36637.7	29741.7	21411.2	16291.6	14009.8
67.5°	6169.1	6623.9	8400.4	14779.5	26313.1	35751.4	26250.9	14935.0	8820.3	6647.3
70°	2235.2	2312.9	2884.4	5916.5	16816.4	28486.1	17535.6	5959.2	3067.1	2464.5
72.5°	1352.8	1364.4	1484.9	2118.6	5842.6	17294.6	6091.4	2188.5	1516.0	1345.0
75°	859.1	851.3	1057.3	1294.5	2071.9	5834.8	2173.0	1294.5	1053.5	960.2
77.5°	618.1	637.5	758.0	967.9	1306.1	1978.6	1282.8	925.2	758.0	622.0
80°	462.6	474.2	552.0	754.1	917.4	1232.3	816.3	684.2	571.4	388.7
82.5°	334.3	334.3	361.5	548.1	559.8	664.7	443.2	482.0	377.1	276.0
85°	198.3	194.4	225.5	326.5	291.5	244.9	202.1	295.4	237.1	171.0
87.5°	70.0	73.9	70.0	93.3	77.7	66.1	62.2	81.6	66.1	58.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
9220.7
9275.1
9403.4
9597.7
9831.0
10072.0
10336.3
10697.8
11106.0
11545.3
12038.9
12552.1
13111.8
13768.8
14507.4
15315.9
16143.9
17143.0
18227.5
19370.4
20548.2
21687.2
22526.9
22659.0
21547.3
18767.8
13842.6
6550.1
2433.4
1368.3
967.9
633.6
400.4
276.0
167.2
54.4
0.0

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