

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: P957497

Luminaire Tested: **GALN-SB9D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957497
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-SB9D-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 85762 lumens
Efficiency: N/A
Efficacy: 130.3 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

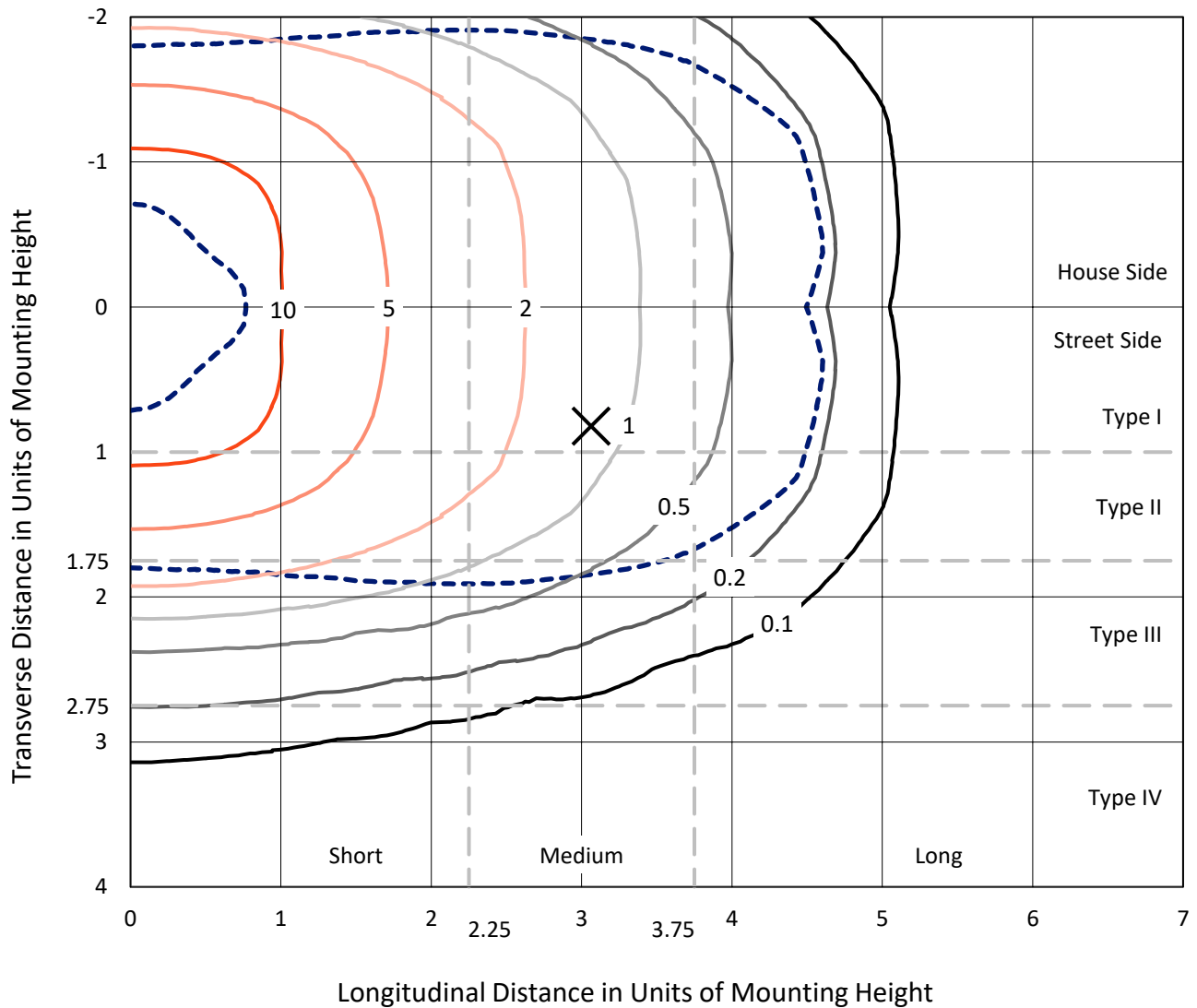
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

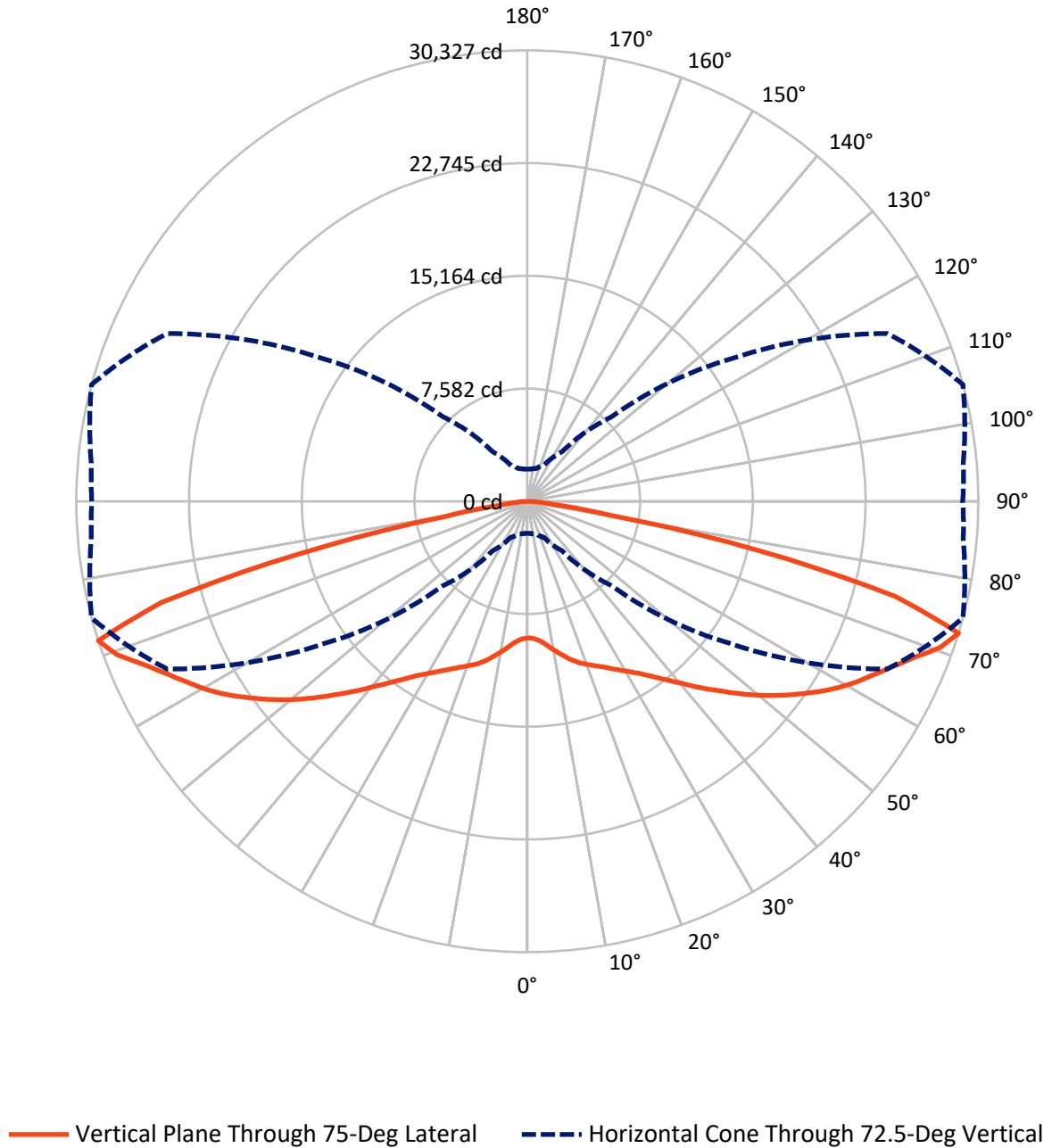
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	42881.0	0.0	42881.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	42881.0	0.0	42881.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	85762.0	0.0	85762.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.9	1.0
10°-20°	2968.1	3.5
20°-30°	5735.2	6.7
30°-40°	9684.2	11.3
40°-50°	15358.1	17.9
50°-60°	20562.8	24.0
60°-70°	19569.1	22.8
70°-80°	10211.5	11.9
80°-90°	773.0	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°	85762.0	100.0
0°-180°	85762.0	100.0



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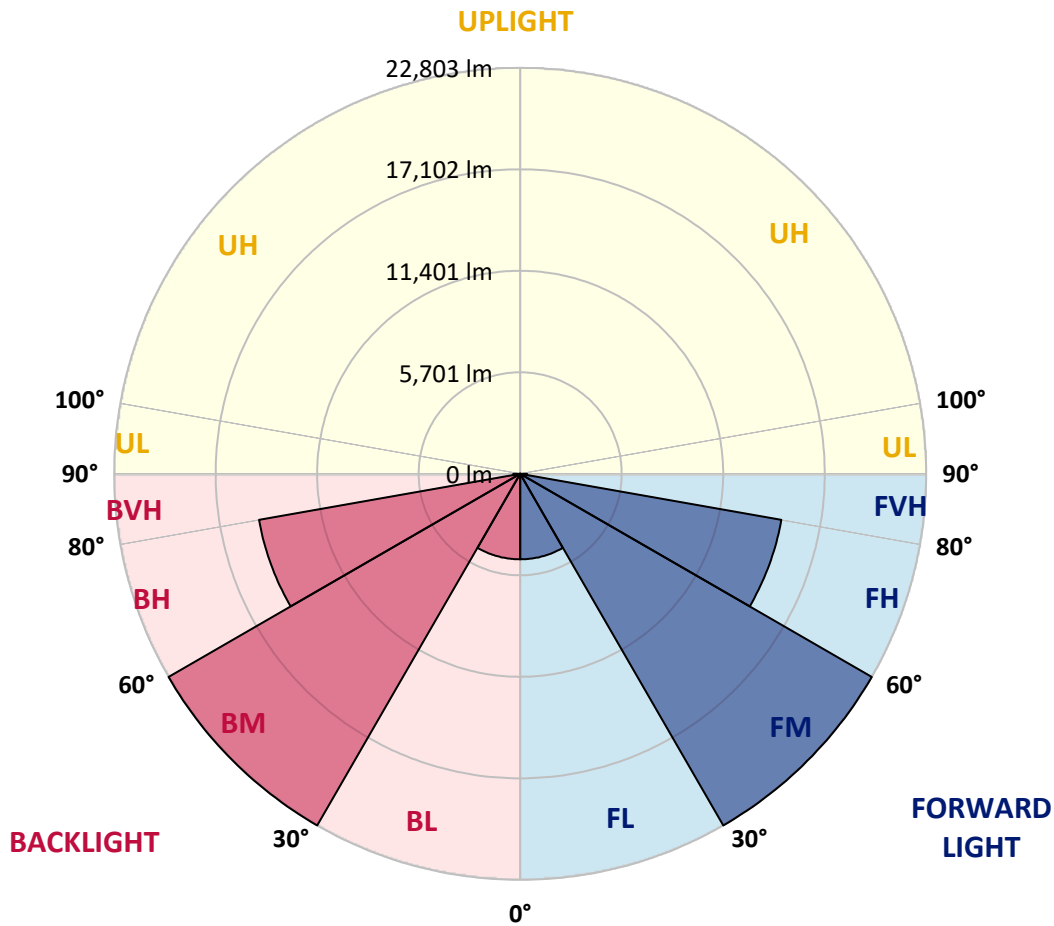
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4801.6	5.6			
FM (30°-60°)	22802.6	26.6			
FH (60°-80°)	14890.3	17.4			G5
FVH (80°-90°)	386.5	0.5			G3/500
BL (0°-30°)	4801.6	5.6	B4/5000		
BM (30°-60°)	22802.6	26.6	B5		
BH (60°-80°)	14890.3	17.4	B5		G5
BVH (80°-90°)	386.5	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°	9186.6	9186.6	9186.6	9186.6	9186.6	9186.6	9186.6	9186.6	9186.6	9186.6
2.5°	9186.6	9177.9	9186.6	9195.4	9191.0	9191.0	9212.9	9226.1	9252.3	9247.9
5°	9125.3	9121.0	9156.0	9195.4	9226.1	9278.6	9344.3	9392.4	9453.8	9466.9
7.5°	9094.7	9081.6	9142.9	9212.9	9309.3	9440.6	9567.6	9699.0	9804.1	9839.1
10°	9116.6	9121.0	9204.2	9335.5	9488.8	9672.7	9852.2	10075.5	10224.4	10259.4
12.5°	9217.3	9208.5	9348.7	9558.8	9769.0	10001.1	10211.3	10456.5	10618.5	10701.7
15°	9401.2	9383.7	9580.7	9891.6	10198.1	10469.6	10640.4	10872.5	11060.8	11165.8
17.5°	9620.1	9628.9	9887.2	10290.1	10692.9	10999.5	11161.5	11279.7	11424.2	11516.1
20°	10005.5	10023.0	10312.0	10789.3	11249.0	11599.3	11730.7	11686.9	11726.3	11796.4
22.5°	10522.2	10530.9	10855.0	11371.6	11853.3	12238.6	12326.2	12146.7	12037.2	12085.4
25°	11122.1	11179.0	11503.0	12032.8	12527.6	12895.5	12934.9	12663.4	12391.9	12405.0
27.5°	11853.3	11905.9	12234.3	12759.7	13263.3	13582.9	13578.5	13215.1	12816.6	12715.9
30°	12645.9	12702.8	13040.0	13582.9	14051.5	14331.7	14270.4	13836.9	13267.7	13079.4
32.5°	13587.3	13622.3	13963.9	14506.8	14940.3	15163.7	15036.7	14502.5	13793.1	13578.5
35°	14725.8	14778.3	15032.3	15544.6	15925.6	16109.5	15894.9	15264.4	14467.4	14226.6
37.5°	16026.3	15991.2	16280.2	16735.6	17050.9	17164.8	16871.4	16122.6	15238.1	14953.5
40°	17383.7	17366.2	17681.4	18119.3	18290.1	18360.2	17926.7	17107.8	16127.0	15820.5
42.5°	18614.1	18601.0	19025.7	19511.8	19717.6	19638.8	19091.4	18154.4	17156.0	16805.7
45°	19599.3	19581.8	20102.9	20786.0	21188.8	21057.5	20321.8	19310.3	18198.1	17834.7
47.5°	20356.9	20365.6	20926.1	21771.2	22476.2	22524.4	21578.5	20488.2	19345.4	18933.8
50°	20904.2	20930.5	21530.4	22467.4	23430.8	23855.5	22861.5	21696.8	20532.0	20067.9
52.5°	21040.0	21088.1	21810.6	22909.7	24043.8	24853.9	24166.4	22857.1	21657.4	21215.1
55°	20317.5	20413.8	21329.0	22874.7	24420.4	25510.7	25313.6	24035.0	22791.5	22336.1
57.5°	18657.9	18793.7	19862.1	21880.7	24337.2	25961.7	26202.5	25164.8	23925.6	23487.7
60°	16332.8	16494.8	17519.4	19722.0	23163.7	26128.1	26828.7	26263.8	24967.7	24543.0
62.5°	12825.4	13035.6	14261.6	16845.1	20685.3	25353.0	27362.9	27257.8	25904.8	25374.9
65°	8227.7	8451.0	9742.7	12794.7	17379.3	22979.7	27529.3	28225.5	26894.4	26154.4
67.5°	4961.1	5061.9	5701.1	7754.8	12702.8	19402.3	26119.3	29298.3	28050.4	27130.8
70°	3174.6	3231.5	3612.5	4553.9	7181.2	14156.5	22625.1	29499.7	29451.6	28133.6
72.5°	2154.4	2171.9	2272.6	2697.3	4063.5	8043.8	16687.5	26706.1	30327.3	29425.3
75°	1576.4	1672.7	1834.7	1909.1	2307.6	4019.7	9563.2	18763.0	25558.8	25952.9
77.5°	1173.5	1177.9	1401.2	1488.8	1646.4	2141.2	4046.0	10474.0	15868.6	16661.2
80°	994.0	941.4	937.1	1199.8	1239.2	1335.5	1808.4	3616.9	5683.6	3446.1
82.5°	827.6	770.7	696.2	937.1	845.1	818.8	783.8	1471.3	1808.4	888.9
85°	578.0	551.7	525.5	613.0	481.7	411.6	376.6	687.5	761.9	376.6
87.5°	249.6	258.3	262.7	271.5	201.4	144.5	144.5	192.7	192.7	148.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
9186.6
9243.6
9466.9
9847.8
10294.5
10736.7
11205.3
11559.9
11848.9
12120.4
12426.9
12746.6
13101.3
13631.1
14261.6
15006.0
15921.2
16893.3
17917.9
19056.4
20208.0
21329.0
22463.1
23588.4
24634.9
25436.2
26246.3
27200.9
28124.8
29285.2
24998.4
14861.5
2605.4
757.5
332.8
109.5
0.0

OF REPORT)