

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: P956048

Luminaire Tested: **GALN-SB8D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956048
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-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73681 lumens
Efficiency: N/A
Efficacy: 126.0 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

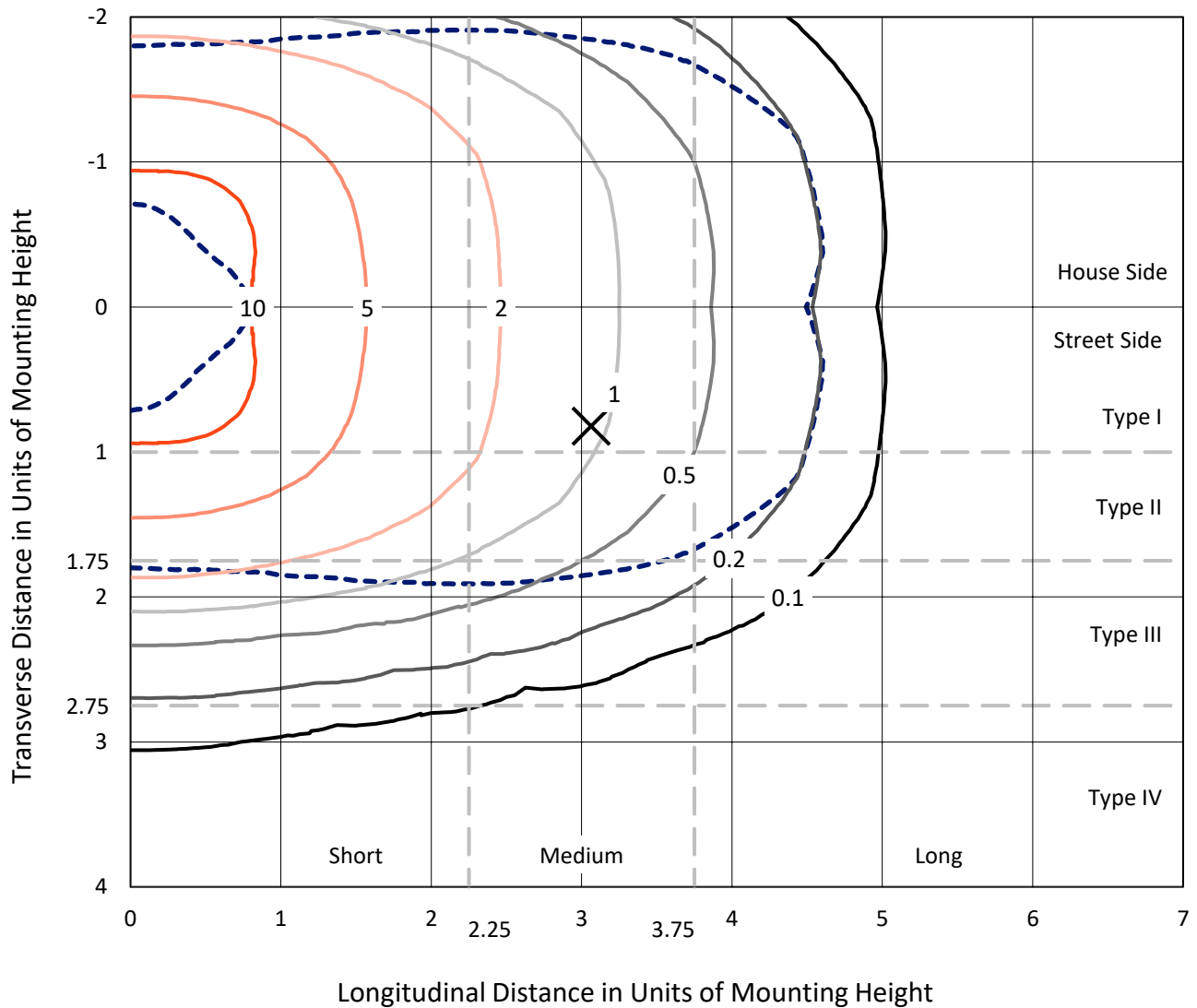
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

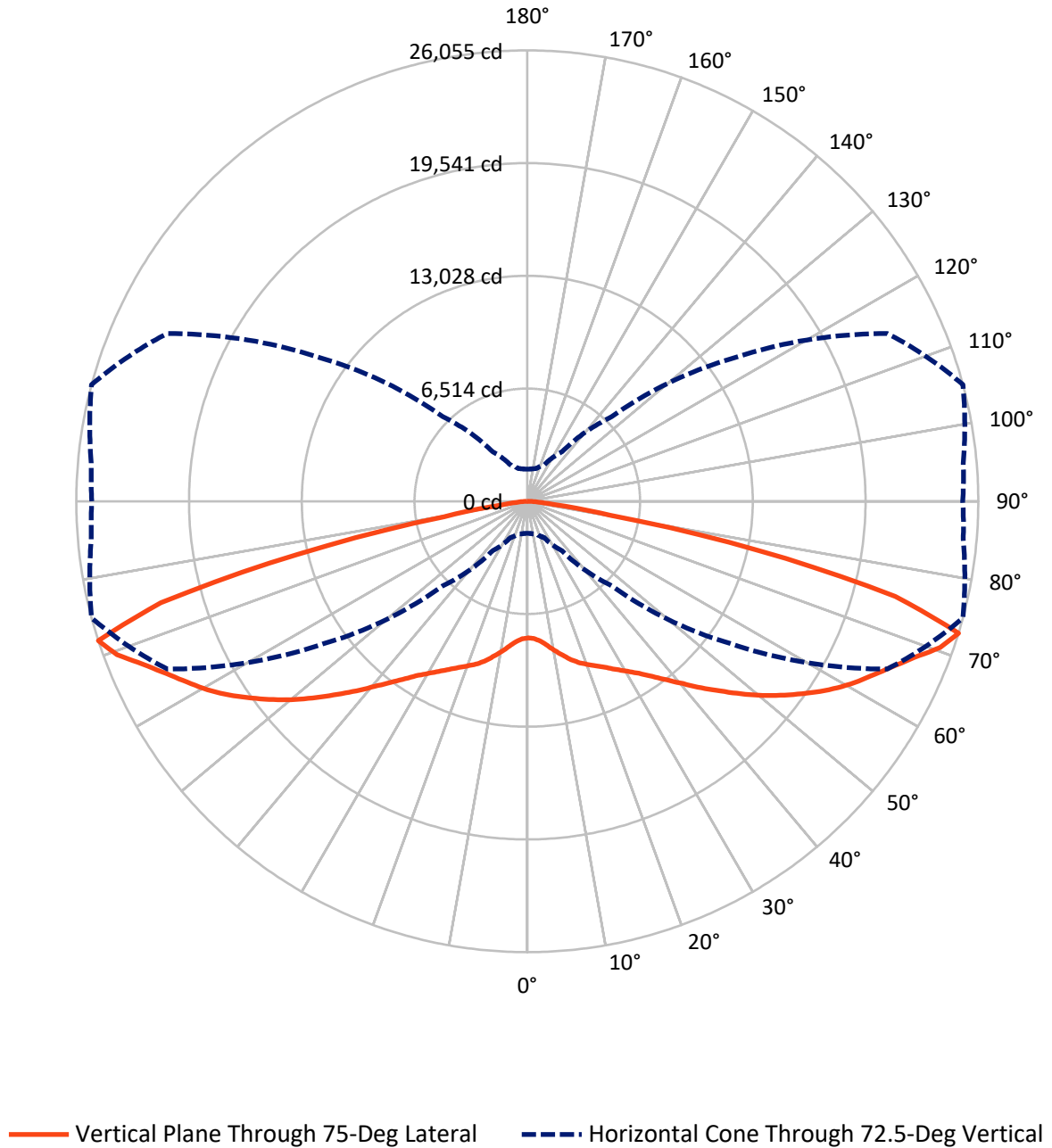
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	36840.5	0.0	36840.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36840.5	0.0	36840.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	73681.0	0.0	73681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.2	1.0
10°-20°	2550.0	3.5
20°-30°	4927.3	6.7
30°-40°	8320.1	11.3
40°-50°	13194.7	17.9
50°-60°	17666.2	24.0
60°-70°	16812.5	22.8
70°-80°	8773.1	11.9
80°-90°	664.1	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°	73681.0	100.0
0°-180°	73681.0	100.0

Coefficient of Utilization



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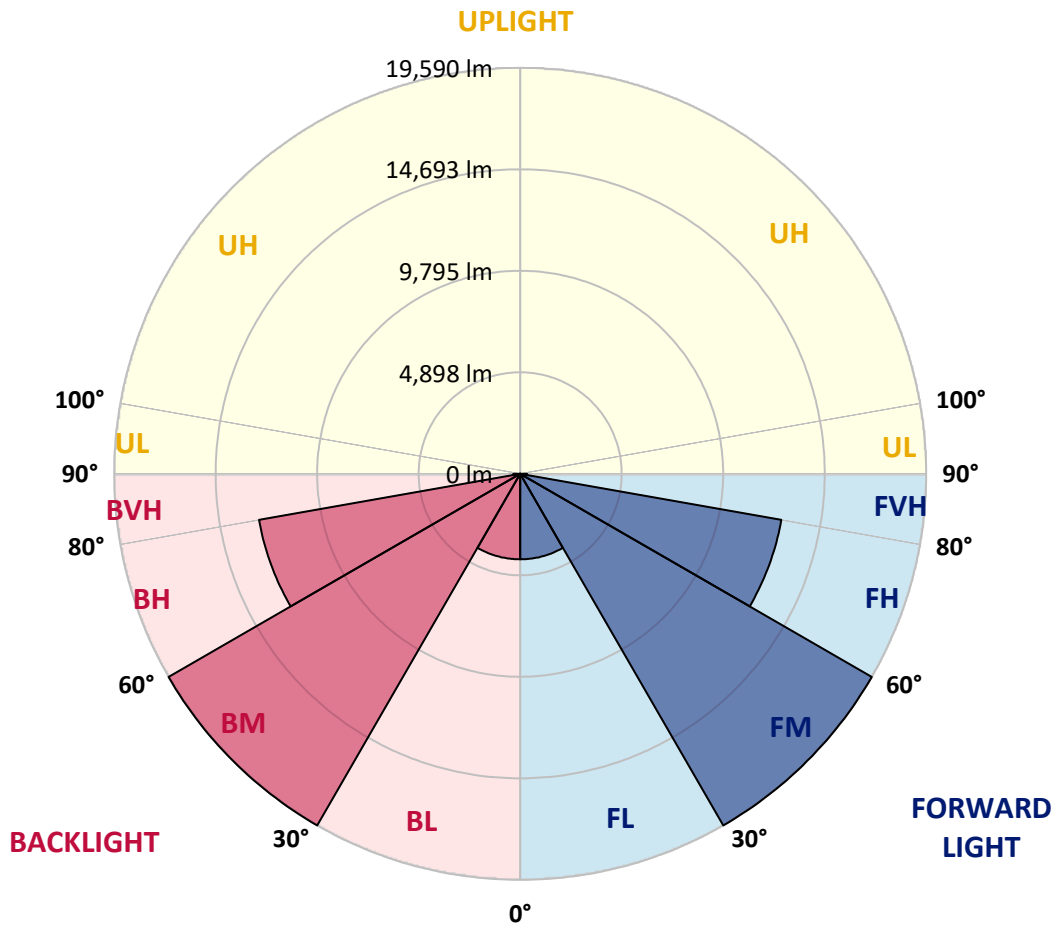
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4125.2	5.6			
FM (30°-60°)	19590.5	26.6			
FH (60°-80°)	12792.8	17.4			G5
FVH (80°-90°)	332.0	0.5			G3/500
BL (0°-30°)	4125.2	5.6	B4/5000		
BM (30°-60°)	19590.5	26.6	B5		
BH (60°-80°)	12792.8	17.4	B5		G5
BVH (80°-90°)	332.0	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°	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6	7892.6
2.5°	7892.6	7885.0	7892.6	7900.1	7896.3	7896.3	7915.1	7926.4	7949.0	7945.2
5°	7839.9	7836.1	7866.2	7900.1	7926.4	7971.6	8028.0	8069.4	8122.0	8133.3
7.5°	7813.6	7802.3	7854.9	7915.1	7997.9	8110.7	8219.8	8332.7	8423.0	8453.1
10°	7832.4	7836.1	7907.6	8020.5	8152.1	8310.1	8464.4	8656.2	8784.1	8814.2
12.5°	7918.9	7911.4	8031.7	8212.3	8392.9	8592.3	8772.8	8983.5	9122.7	9194.2
15°	8076.9	8061.8	8231.1	8498.2	8761.6	8994.8	9141.5	9340.9	9502.7	9593.0
17.5°	8265.0	8272.5	8494.5	8840.6	9186.7	9450.0	9589.2	9690.8	9814.9	9893.9
20°	8596.0	8611.1	8859.4	9269.4	9664.4	9965.4	10078.2	10040.6	10074.5	10134.7
22.5°	9039.9	9047.5	9325.9	9769.8	10183.6	10514.6	10589.9	10435.6	10341.6	10383.0
25°	9555.3	9604.2	9882.6	10337.8	10762.9	11078.9	11112.8	10879.5	10646.3	10657.6
27.5°	10183.6	10228.7	10510.9	10962.3	11394.9	11669.5	11665.8	11353.5	11011.2	10924.7
30°	10864.5	10913.4	11203.1	11669.5	12072.1	12312.8	12260.2	11887.7	11398.7	11236.9
32.5°	11673.3	11703.4	11996.8	12463.3	12835.7	13027.6	12918.5	12459.6	11850.1	11665.8
35°	12651.4	12696.6	12914.7	13354.9	13682.2	13840.2	13655.8	13114.1	12429.5	12222.5
37.5°	13768.7	13738.6	13986.9	14378.1	14649.0	14746.8	14494.8	13851.5	13091.6	12847.0
40°	14934.9	14919.9	15190.7	15566.9	15713.6	15773.8	15401.4	14697.9	13855.2	13591.9
42.5°	15992.0	15980.7	16345.6	16763.2	16940.0	16872.3	16402.1	15597.0	14739.3	14438.3
45°	16838.5	16823.4	17271.1	17857.9	18204.0	18091.2	17459.2	16590.2	15634.6	15322.4
47.5°	17489.3	17496.8	17978.3	18704.4	19310.0	19351.4	18538.8	17602.1	16620.3	16266.6
50°	17959.5	17982.1	18497.5	19302.5	20130.2	20495.1	19641.1	18640.4	17639.7	17241.0
52.5°	18076.1	18117.5	18738.2	19682.5	20656.8	21352.8	20762.2	19637.3	18606.6	18226.6
55°	17455.4	17538.2	18324.4	19652.4	20980.3	21917.1	21747.8	20649.3	19580.9	19189.7
57.5°	16029.6	16146.3	17064.2	18798.4	20908.9	22304.6	22511.5	21619.9	20555.3	20179.1
60°	14032.0	14171.2	15051.5	16943.8	19900.7	22447.5	23049.4	22564.1	21450.6	21085.7
62.5°	11018.7	11199.3	12252.6	14472.2	17771.4	21781.6	23508.4	23418.1	22255.6	21800.5
65°	7068.7	7260.5	8370.3	10992.4	14931.1	19742.7	23651.3	24249.5	23105.8	22470.1
67.5°	4262.3	4348.8	4898.0	6662.4	10913.4	16669.2	22440.0	25171.2	24099.0	23309.0
70°	2727.4	2776.3	3103.6	3912.4	6169.6	12162.4	19438.0	25344.2	25302.8	24170.5
72.5°	1850.9	1865.9	1952.4	2317.4	3491.1	6910.7	14336.8	22944.1	26055.2	25280.2
75°	1354.3	1437.1	1576.3	1640.2	1982.5	3453.5	8216.1	16119.9	21958.5	22297.0
77.5°	1008.2	1012.0	1203.8	1279.1	1414.5	1839.6	3476.0	8998.6	13633.3	14314.2
80°	854.0	808.8	805.1	1030.8	1064.6	1147.4	1553.7	3107.4	4883.0	2960.6
82.5°	711.0	662.1	598.1	805.1	726.1	703.5	673.4	1264.0	1553.7	763.7
85°	496.6	474.0	451.4	526.7	413.8	353.6	323.5	590.6	654.6	323.5
87.5°	214.4	222.0	225.7	233.2	173.0	124.1	124.1	165.5	165.5	127.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7892.6
7941.5
8133.3
8460.6
8844.3
9224.3
9626.8
9931.5
10179.8
10413.1
10676.4
10951.0
11255.7
11710.9
12252.6
12892.2
13678.4
14513.6
15393.9
16372.0
17361.4
18324.4
19298.8
20265.6
21164.7
21853.1
22549.1
23369.2
24163.0
25159.9
21476.9
12768.0
2238.4
650.8
285.9
94.0
0.0

OF REPORT)