

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: P956044

Luminaire Tested: **GALN-SB8D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
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-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74934 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

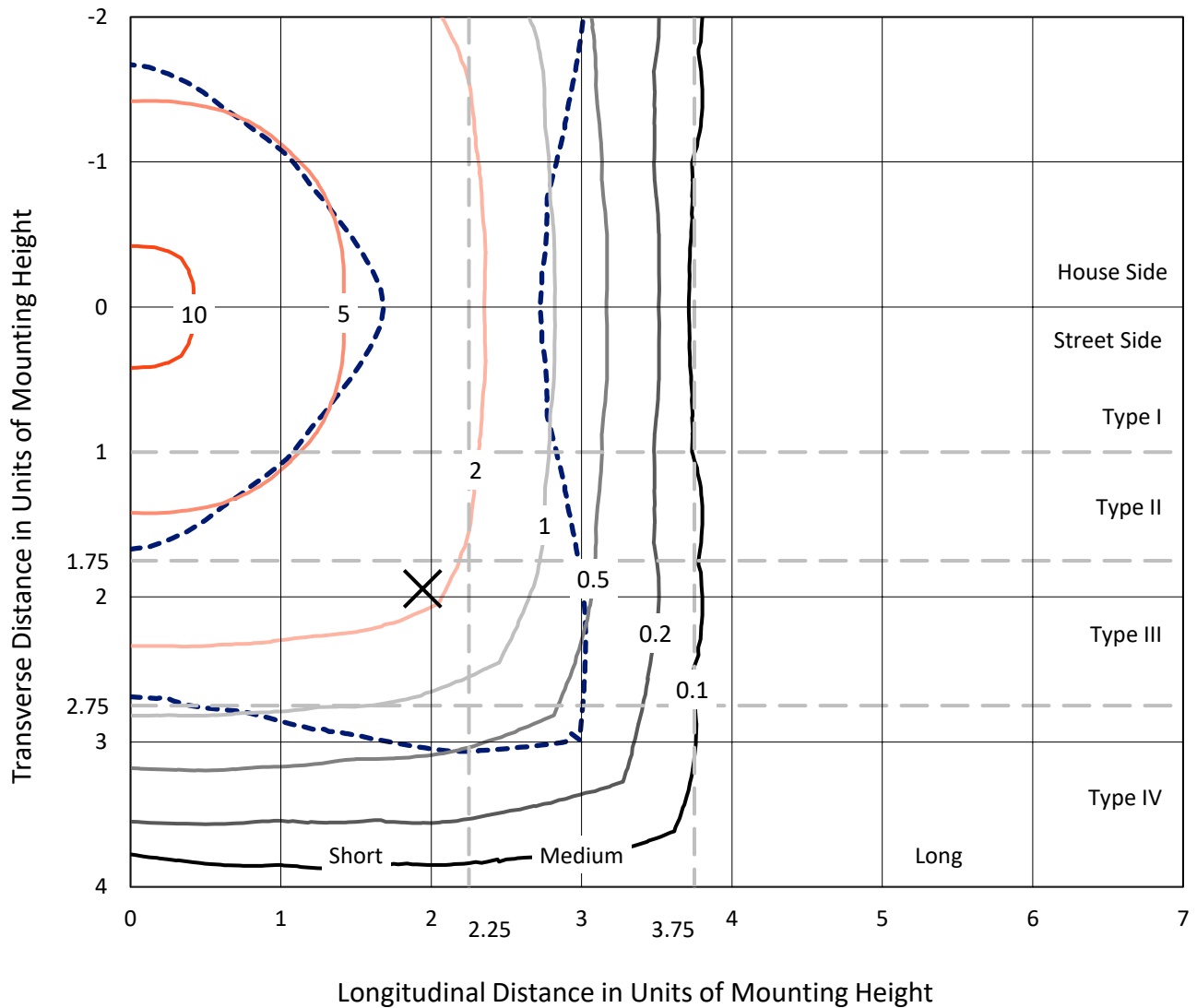
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

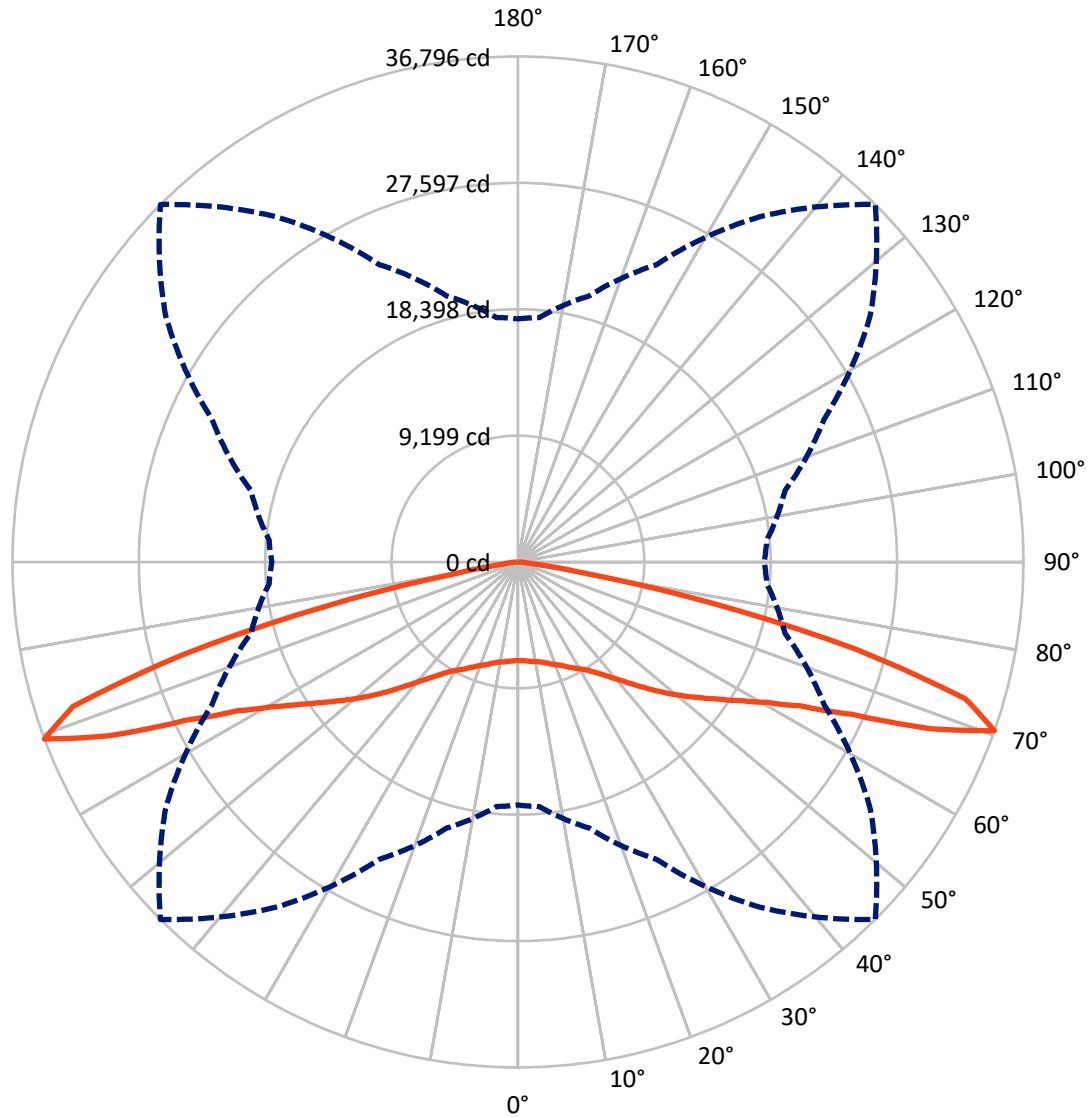
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37467.0	0.0	37467.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	37467.0	0.0	37467.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	74934.0	0.0	74934.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.3	0.9
10°-20°	2162.4	2.9
20°-30°	3864.4	5.2
30°-40°	6264.1	8.4
40°-50°	10203.2	13.6
50°-60°	15556.4	20.8
60°-70°	23143.0	30.9
70°-80°	12613.7	16.8
80°-90°	429.5	0.6
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°	74934.0	100.0
0°-180°	74934.0	100.0



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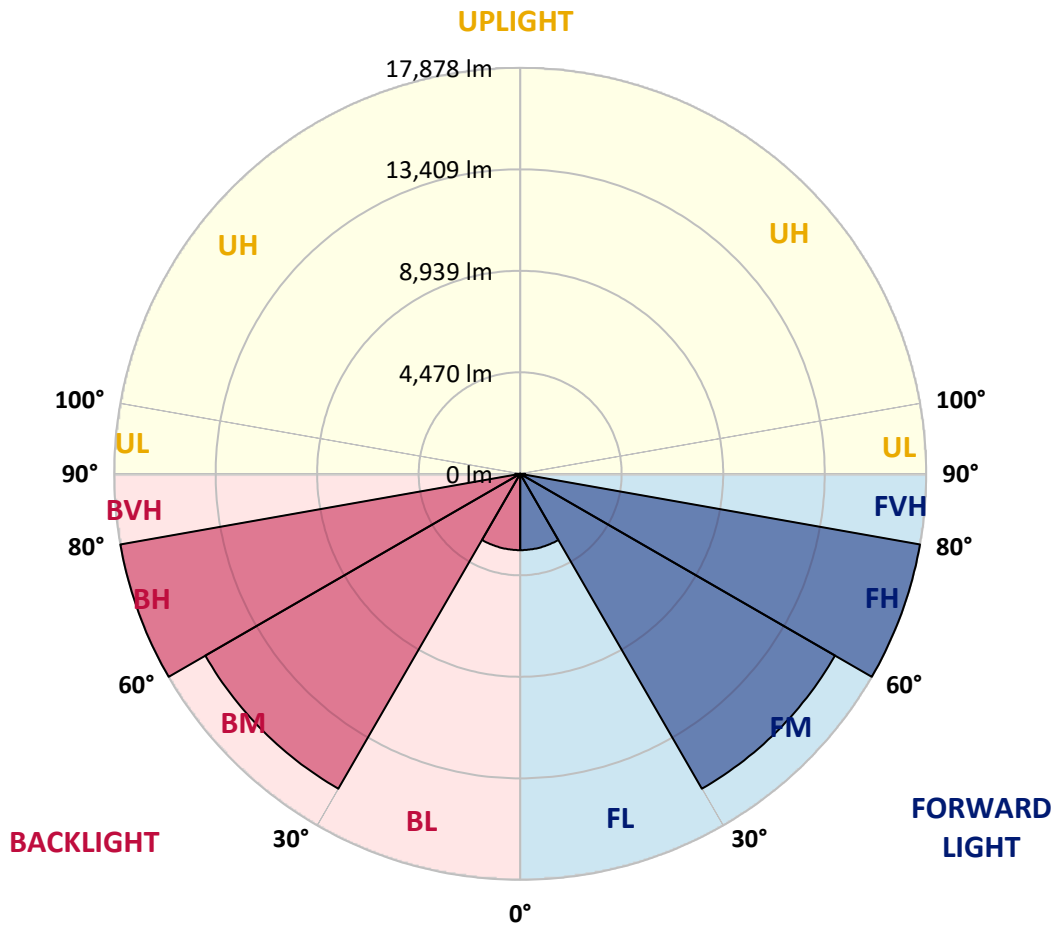
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3362.0	4.5			
FM (30°-60°)	16011.9	21.4			
FH (60°-80°)	17878.3	23.9			G5
FVH (80°-90°)	214.8	0.3			G2/225
BL (0°-30°)	3362.0	4.5	B4/5000		
BM (30°-60°)	16011.9	21.4	B5		
BH (60°-80°)	17878.3	23.9	B5		G5
BVH (80°-90°)	214.8	0.3			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7177.9	7177.9	7177.9	7177.9	7177.9	7177.9	7177.9	7177.9	7177.9	7177.9
2.5°	7211.8	7219.3	7204.2	7196.7	7189.2	7177.9	7181.7	7200.5	7215.5	7211.8
5°	7272.0	7279.5	7268.2	7264.4	7249.4	7245.6	7245.6	7264.4	7275.7	7268.2
7.5°	7339.7	7351.0	7332.1	7328.4	7320.9	7313.3	7309.6	7328.4	7339.7	7339.7
10°	7403.6	7414.9	7399.9	7388.6	7381.0	7381.0	7373.5	7388.6	7407.4	7403.6
12.5°	7471.3	7478.9	7463.8	7456.3	7456.3	7467.6	7456.3	7463.8	7478.9	7471.3
15°	7554.1	7557.9	7554.1	7565.4	7584.2	7621.8	7588.0	7580.4	7588.0	7569.1
17.5°	7667.0	7674.5	7689.5	7715.9	7742.2	7809.9	7749.7	7730.9	7730.9	7693.3
20°	7806.2	7817.4	7840.0	7885.2	7919.0	7983.0	7922.8	7896.4	7885.2	7836.3
22.5°	7952.9	7971.7	8005.5	8065.7	8125.9	8186.1	8125.9	8080.8	8046.9	7983.0
25°	8122.2	8144.7	8197.4	8295.2	8378.0	8464.5	8393.0	8302.7	8235.0	8144.7
27.5°	8362.9	8389.3	8453.2	8573.6	8678.9	8754.2	8686.5	8569.8	8475.8	8366.7
30°	8701.5	8727.8	8803.1	8931.0	9002.5	9051.4	9006.2	8915.9	8803.1	8678.9
32.5°	9137.9	9171.8	9254.5	9374.9	9390.0	9397.5	9382.4	9337.3	9254.5	9104.0
35°	9690.9	9728.5	9822.6	9920.4	9905.4	9920.4	9897.8	9882.8	9822.6	9649.5
37.5°	10368.1	10413.2	10511.0	10586.3	10548.7	10529.8	10533.6	10537.4	10503.5	10311.7
40°	11154.3	11214.5	11286.0	11365.0	11301.1	11244.6	11282.2	11312.3	11282.2	11086.6
42.5°	11963.2	12049.7	12124.9	12237.8	12185.1	12113.6	12166.3	12200.2	12136.2	11925.5
45°	12862.3	12945.1	13042.9	13212.2	13174.5	13099.3	13174.5	13182.1	13073.0	12824.7
47.5°	13791.5	13878.0	14024.7	14250.5	14235.4	14152.7	14250.5	14197.8	14058.6	13761.4
50°	14671.8	14792.2	15017.9	15333.9	15364.0	15262.4	15394.1	15292.5	15059.3	14686.9
52.5°	15499.5	15627.4	15984.8	16413.6	16522.7	16391.0	16567.9	16391.0	16041.2	15563.4
55°	16368.5	16511.4	16936.5	17497.1	17715.3	17617.5	17783.0	17515.9	17019.3	16440.0
57.5°	17391.7	17478.3	17986.1	18652.0	19020.7	19043.3	19118.5	18667.1	18065.1	17406.8
60°	18501.5	18621.9	19174.9	19972.5	20555.6	20743.7	20664.7	19995.0	19295.3	18539.2
62.5°	19923.6	20055.2	20717.4	21672.9	22594.6	23061.1	22752.6	21782.0	20916.7	20010.1
65°	21101.1	21247.8	22444.1	24148.3	25826.2	26762.9	25987.9	24201.0	22643.5	21364.4
67.5°	20247.1	20427.7	22304.9	25434.9	29607.0	32402.1	29749.9	25818.6	22767.6	21033.4
70°	17696.5	17865.8	20055.2	23881.2	30671.6	36796.2	31311.2	24584.7	20126.7	18185.5
72.5°	11748.7	12294.2	14510.0	19099.7	27387.4	34049.9	27658.2	18712.2	13460.4	11722.4
75°	3897.4	4333.8	5846.2	9901.6	18343.5	25465.0	17463.2	8761.7	4631.0	3333.1
77.5°	981.9	1132.4	1561.2	2832.8	7317.1	14498.8	6587.3	2313.6	1260.3	880.3
80°	477.8	526.7	752.4	944.3	1832.1	4608.5	1719.2	887.8	594.4	459.0
82.5°	263.3	267.1	425.1	534.2	680.9	1192.6	707.3	519.2	342.3	278.4
85°	161.8	158.0	225.7	285.9	285.9	425.1	338.6	285.9	195.6	173.1
87.5°	64.0	64.0	82.8	90.3	79.0	109.1	86.5	94.1	75.2	71.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7177.9
7215.5
7272.0
7339.7
7403.6
7467.6
7569.1
7693.3
7836.3
7979.2
8141.0
8362.9
8678.9
9107.8
9649.5
10311.7
11086.6
11940.6
12851.0
13742.6
14679.3
15518.3
16361.0
17316.5
18418.8
19852.1
21153.7
20773.8
17925.9
11342.4
3152.6
786.3
421.3
278.4
180.6
75.2
0.0

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