

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: P954658

Luminaire Tested: **GALN-SB7D-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954658
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-SB7D-835-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70297 lumens
Efficiency: N/A
Efficacy: 137.1 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

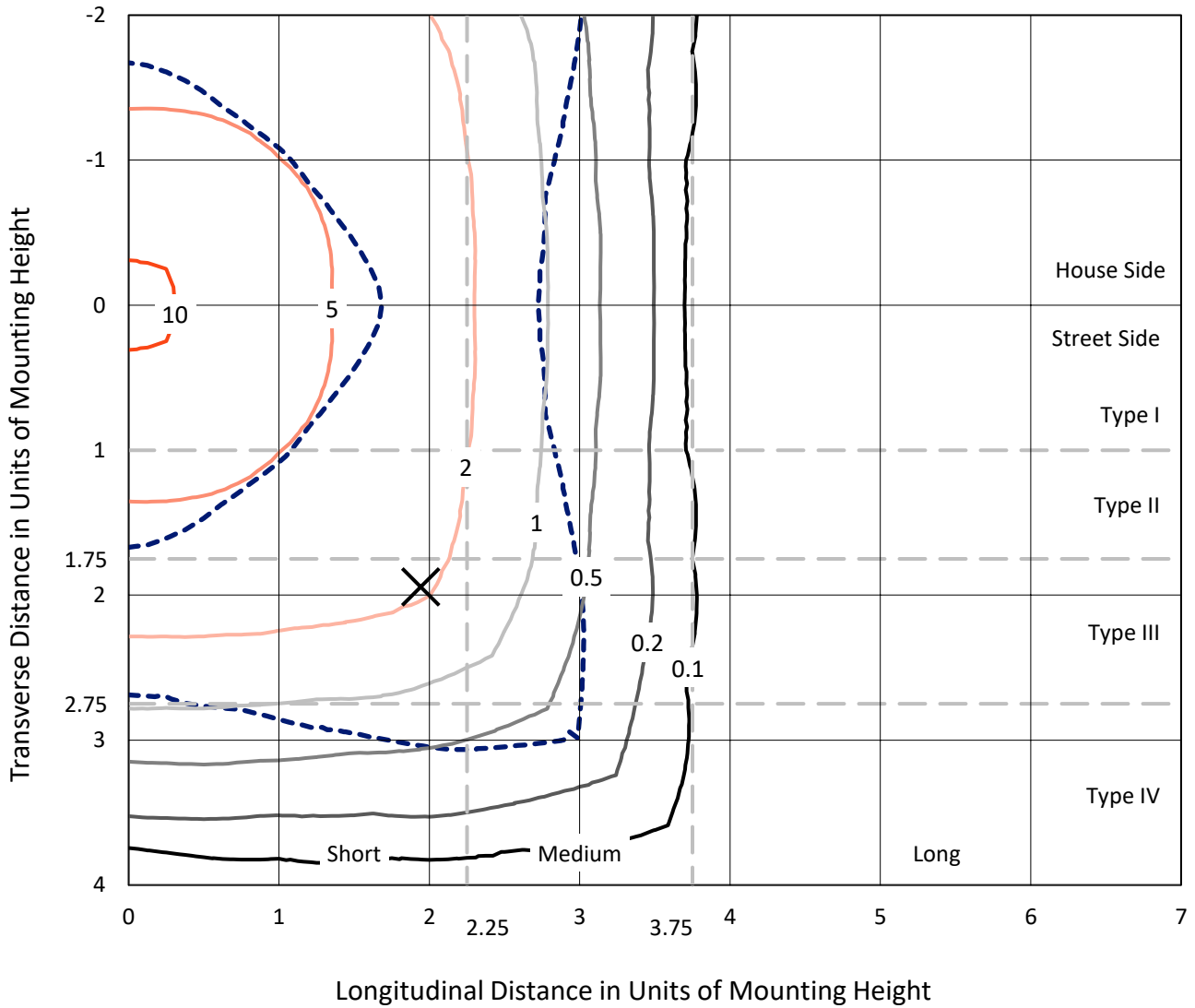
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

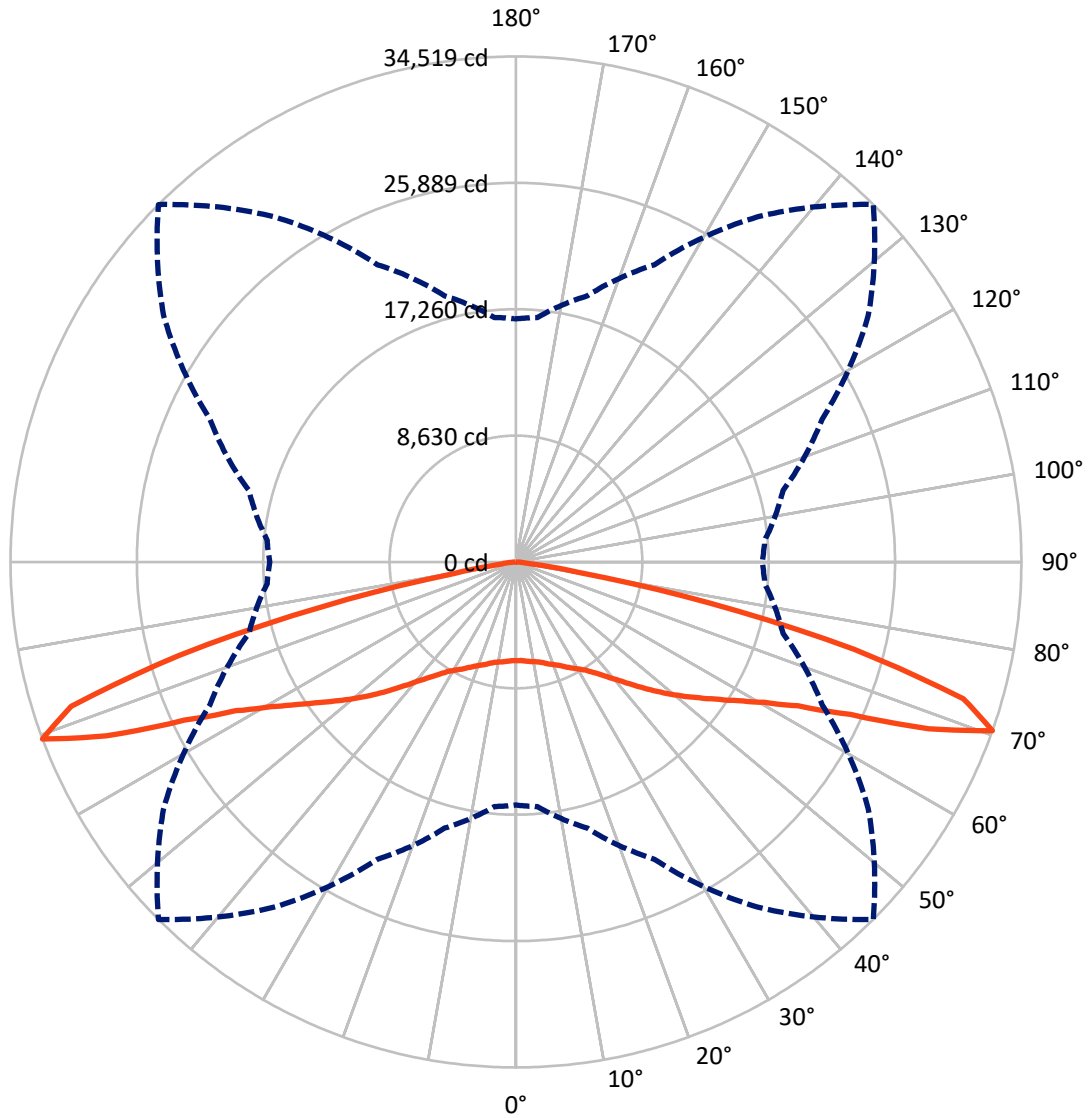
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	35148.5	0.0	35148.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35148.5	0.0	35148.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	70297.0	0.0	70297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.2	0.9
10°-20°	2028.5	2.9
20°-30°	3625.2	5.2
30°-40°	5876.5	8.4
40°-50°	9571.8	13.6
50°-60°	14593.8	20.8
60°-70°	21710.9	30.9
70°-80°	11833.1	16.8
80°-90°	402.9	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°	70297.0	100.0
0°-180°	70297.0	100.0

Coefficient of Utilization



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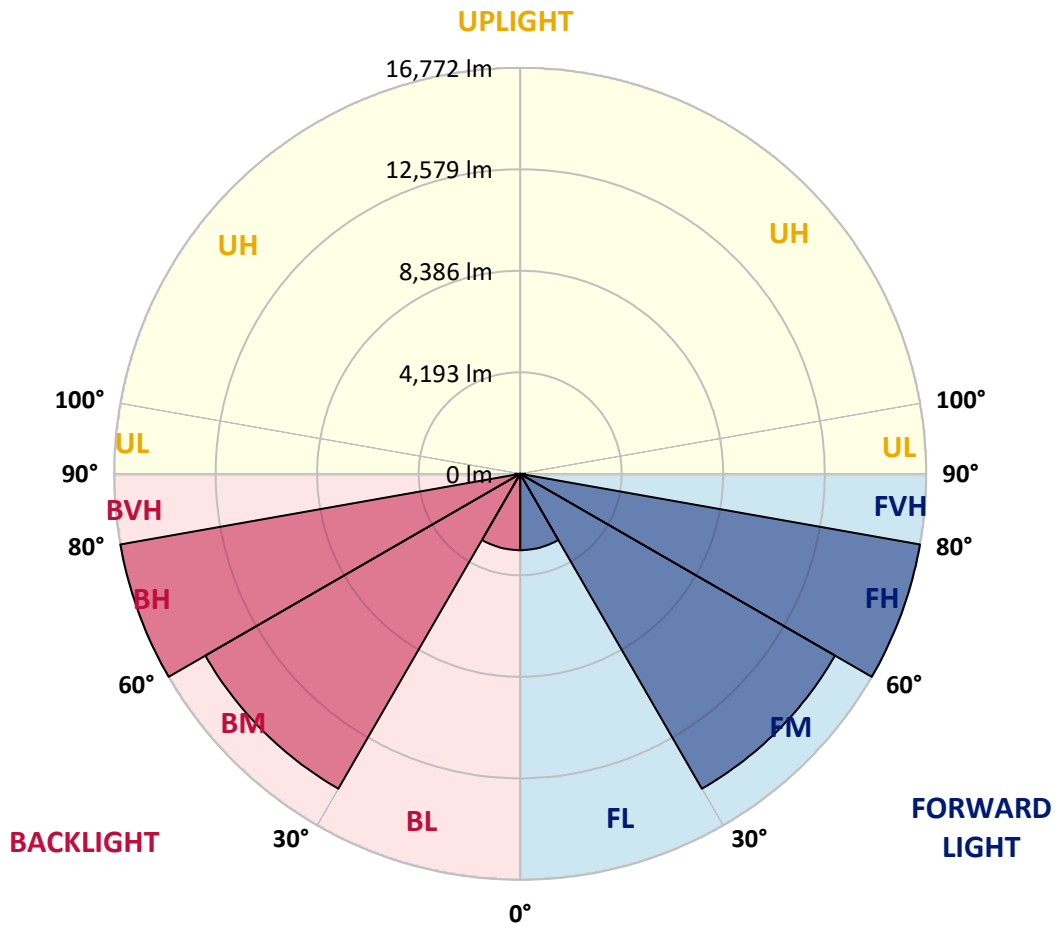
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3154.0	4.5			
FM (30°-60°)	15021.0	21.4			
FH (60°-80°)	16772.0	23.9			G5
FVH (80°-90°)	201.5	0.3			G2/225
BL (0°-30°)	3154.0	4.5	B4/5000		
BM (30°-60°)	15021.0	21.4	B5		
BH (60°-80°)	16772.0	23.9	B5		G5
BVH (80°-90°)	201.5	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°	6733.7	6733.7	6733.7	6733.7	6733.7	6733.7	6733.7	6733.7	6733.7	6733.7
2.5°	6765.5	6772.5	6758.4	6751.4	6744.3	6733.7	6737.3	6754.9	6769.0	6765.5
5°	6822.0	6829.0	6818.4	6814.9	6800.8	6797.3	6797.3	6814.9	6825.5	6818.4
7.5°	6885.5	6896.1	6878.4	6874.9	6867.8	6860.8	6857.2	6874.9	6885.5	6885.5
10°	6945.5	6956.1	6941.9	6931.4	6924.3	6924.3	6917.2	6931.4	6949.0	6945.5
12.5°	7009.0	7016.1	7001.9	6994.9	6994.9	7005.5	6994.9	7001.9	7016.1	7009.0
15°	7086.6	7090.2	7086.6	7097.2	7114.9	7150.2	7118.4	7111.4	7118.4	7100.8
17.5°	7192.5	7199.6	7213.7	7238.4	7263.1	7326.6	7270.2	7252.5	7252.5	7217.2
20°	7323.1	7333.7	7354.9	7397.2	7429.0	7489.0	7432.5	7407.8	7397.2	7351.3
22.5°	7460.7	7478.4	7510.2	7566.6	7623.1	7679.6	7623.1	7580.7	7549.0	7489.0
25°	7619.6	7640.7	7690.1	7781.9	7859.5	7940.7	7873.7	7789.0	7725.4	7640.7
27.5°	7845.4	7870.1	7930.1	8043.1	8141.9	8212.5	8148.9	8039.5	7951.3	7849.0
30°	8163.1	8187.8	8258.3	8378.3	8445.4	8491.3	8448.9	8364.2	8258.3	8141.9
32.5°	8572.4	8604.2	8681.8	8794.8	8808.9	8816.0	8801.8	8759.5	8681.8	8540.7
35°	9091.2	9126.5	9214.8	9306.5	9292.4	9306.5	9285.3	9271.2	9214.8	9052.4
37.5°	9726.5	9768.8	9860.6	9931.2	9895.9	9878.2	9881.8	9885.3	9853.5	9673.6
40°	10464.1	10520.6	10587.6	10661.7	10601.7	10548.8	10584.1	10612.3	10584.1	10400.6
42.5°	11222.9	11304.0	11374.6	11480.5	11431.1	11364.0	11413.5	11445.2	11385.2	11187.6
45°	12066.4	12144.0	12235.8	12394.6	12359.3	12288.7	12359.3	12366.3	12264.0	12031.1
47.5°	12938.1	13019.2	13156.9	13368.6	13354.5	13276.9	13368.6	13319.2	13188.6	12909.8
50°	13763.9	13876.8	14088.6	14385.0	14413.3	14318.0	14441.5	14346.2	14127.4	13778.0
52.5°	14540.3	14660.3	14995.6	15397.9	15500.3	15376.8	15542.6	15376.8	15048.5	14600.3
55°	15355.6	15489.7	15888.5	16414.3	16619.0	16527.3	16682.6	16432.0	15966.1	15422.6
57.5°	16315.5	16396.7	16873.1	17497.8	17843.7	17864.8	17935.4	17511.9	16947.2	16329.6
60°	17356.6	17469.6	17988.4	18736.6	19283.6	19460.0	19385.9	18757.7	18101.3	17391.9
62.5°	18690.7	18814.2	19435.3	20331.8	21196.4	21634.0	21344.6	20434.1	19622.4	18771.8
65°	19795.3	19933.0	21055.2	22654.0	24228.0	25106.8	24379.8	22703.4	21242.3	20042.4
67.5°	18994.2	19163.6	20924.7	23861.0	27774.9	30397.1	27909.0	24220.9	21358.8	19731.8
70°	16601.4	16760.2	18814.2	22403.4	28773.6	34519.2	29373.6	23063.4	18881.3	17060.2
72.5°	11021.7	11533.4	13612.1	17917.8	25692.6	31942.8	25946.7	17554.3	12627.5	10997.0
75°	3656.3	4065.6	5484.4	9288.9	17208.4	23889.2	16382.6	8219.5	4344.5	3126.9
77.5°	921.1	1062.3	1464.6	2657.5	6864.3	13601.6	6179.6	2170.5	1182.3	825.8
80°	448.2	494.1	705.8	885.8	1718.7	4323.3	1612.8	832.9	557.6	430.6
82.5°	247.0	250.6	398.8	501.1	638.8	1118.8	663.5	487.0	321.2	261.2
85°	151.8	148.2	211.8	268.2	268.2	398.8	317.6	268.2	183.5	162.3
87.5°	60.0	60.0	77.6	84.7	74.1	102.3	81.2	88.2	70.6	67.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6733.7
6769.0
6822.0
6885.5
6945.5
7005.5
7100.8
7217.2
7351.3
7485.4
7637.2
7845.4
8141.9
8544.2
9052.4
9673.6
10400.6
11201.7
12055.8
12892.2
13771.0
14558.0
15348.5
16244.9
17279.0
18623.6
19844.7
19488.3
16816.7
10640.6
2957.5
737.6
395.3
261.2
169.4
70.6
0.0

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