

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: P954679

Luminaire Tested: **GALN-SB7D-840-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954679
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-840-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72493 lumens
Efficiency: N/A
Efficacy: 141.4 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

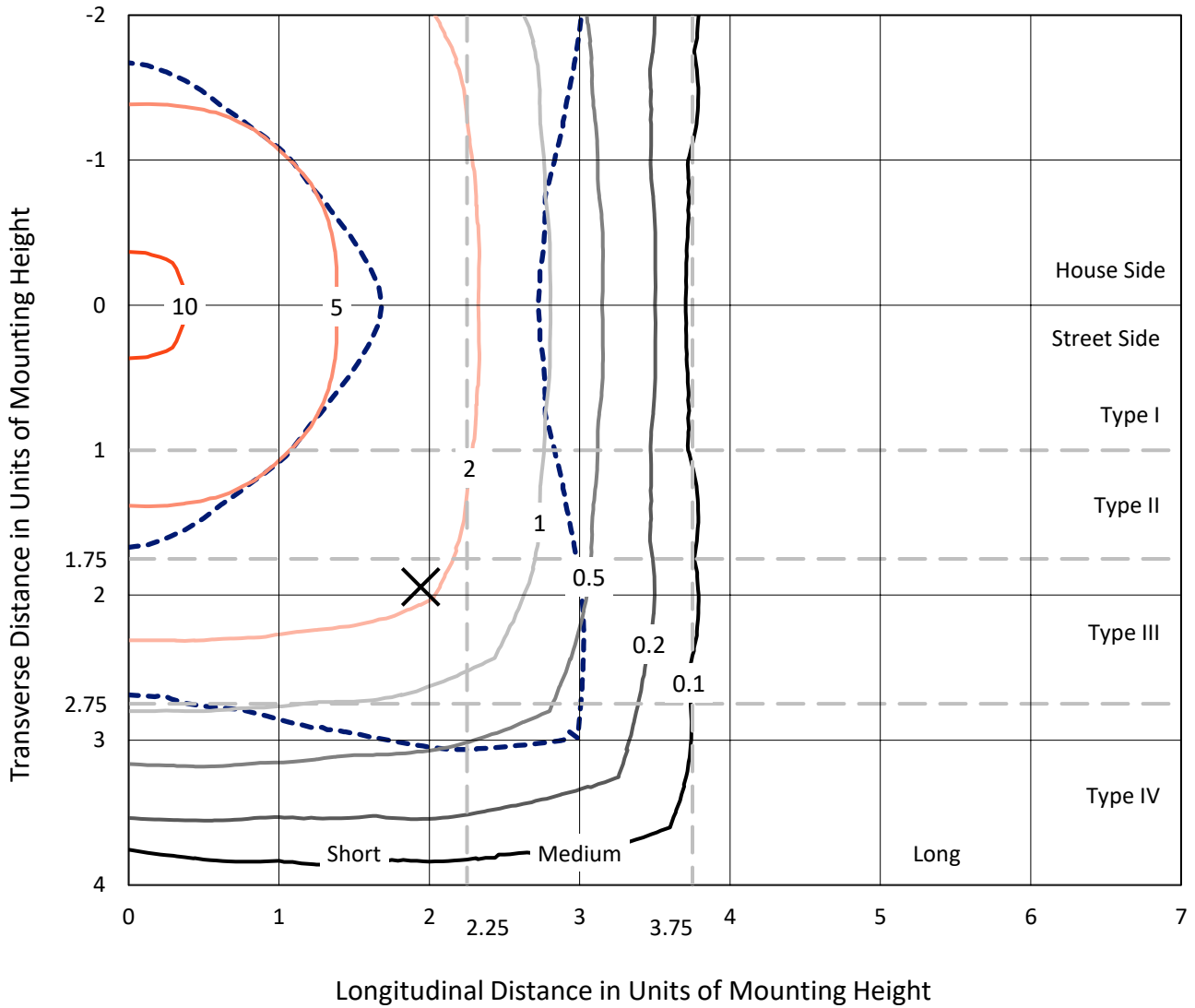
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

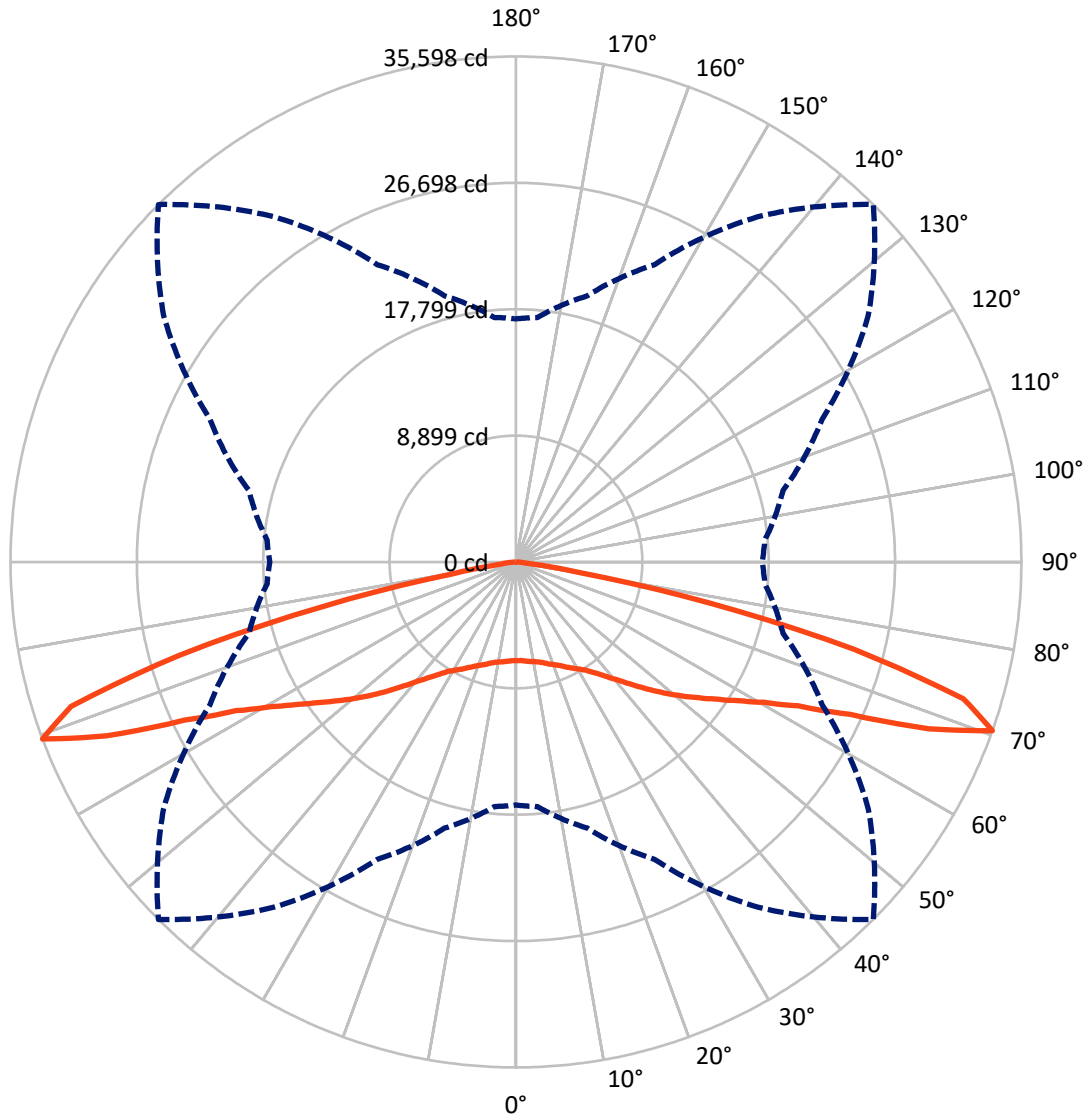
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	36246.5	0.0	36246.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36246.5	0.0	36246.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	72493.0	0.0	72493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.6	0.9
10°-20°	2091.9	2.9
20°-30°	3738.5	5.2
30°-40°	6060.0	8.4
40°-50°	9870.8	13.6
50°-60°	15049.7	20.8
60°-70°	22389.1	30.9
70°-80°	12202.8	16.8
80°-90°	415.5	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°	72493.0	100.0
0°-180°	72493.0	100.0

Coefficient of Utilization



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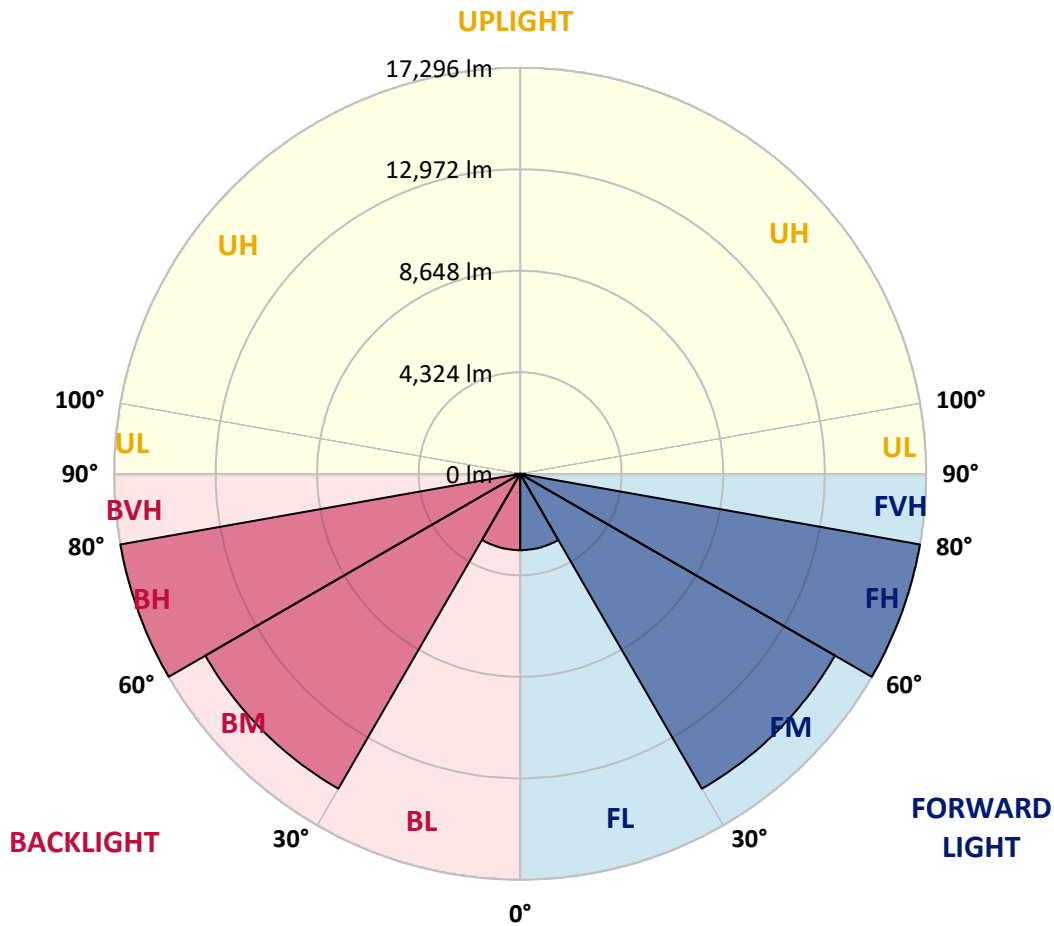
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.5	4.5			
FM (30°-60°)	15490.3	21.4			
FH (60°-80°)	17296.0	23.9			G5
FVH (80°-90°)	207.8	0.3			G2/225
BL (0°-30°)	3252.5	4.5	B4/5000		
BM (30°-60°)	15490.3	21.4	B5		
BH (60°-80°)	17296.0	23.9	B5		G5
BVH (80°-90°)	207.8	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°	6944.1	6944.1	6944.1	6944.1	6944.1	6944.1	6944.1	6944.1	6944.1	6944.1
2.5°	6976.8	6984.1	6969.6	6962.3	6955.0	6944.1	6947.7	6965.9	6980.5	6976.8
5°	7035.1	7042.3	7031.4	7027.8	7013.2	7009.6	7009.6	7027.8	7038.7	7031.4
7.5°	7100.6	7111.5	7093.3	7089.7	7082.4	7075.1	7071.5	7089.7	7100.6	7100.6
10°	7162.4	7173.4	7158.8	7147.9	7140.6	7140.6	7133.3	7147.9	7166.1	7162.4
12.5°	7228.0	7235.2	7220.7	7213.4	7213.4	7224.3	7213.4	7220.7	7235.2	7228.0
15°	7308.0	7311.7	7308.0	7318.9	7337.1	7373.5	7340.8	7333.5	7340.8	7322.6
17.5°	7417.2	7424.5	7439.0	7464.5	7490.0	7555.5	7497.3	7479.1	7479.1	7442.7
20°	7551.9	7562.8	7584.6	7628.3	7661.1	7722.9	7664.7	7639.2	7628.3	7581.0
22.5°	7693.8	7712.0	7744.8	7803.0	7861.2	7919.5	7861.2	7817.5	7784.8	7722.9
25°	7857.6	7879.4	7930.4	8025.0	8105.1	8188.8	8119.6	8032.3	7966.8	7879.4
27.5°	8090.5	8116.0	8177.9	8294.3	8396.2	8469.0	8403.5	8290.7	8199.7	8094.1
30°	8418.1	8443.5	8516.3	8640.1	8709.2	8756.5	8712.9	8625.5	8516.3	8396.2
32.5°	8840.2	8873.0	8953.1	9069.5	9084.1	9091.4	9076.8	9033.1	8953.1	8807.5
35°	9375.2	9411.6	9502.6	9597.2	9582.7	9597.2	9575.4	9560.8	9502.6	9335.2
37.5°	10030.3	10074.0	10168.6	10241.4	10205.0	10186.8	10190.5	10194.1	10161.4	9975.7
40°	10791.0	10849.2	10918.4	10994.8	10932.9	10878.3	10914.7	10943.8	10914.7	10725.5
42.5°	11573.5	11657.2	11730.0	11839.1	11788.2	11719.0	11770.0	11802.8	11740.9	11537.1
45°	12443.3	12523.4	12618.0	12781.8	12745.4	12672.6	12745.4	12752.6	12647.1	12406.9
47.5°	13342.2	13425.9	13567.9	13786.3	13771.7	13691.6	13786.3	13735.3	13600.6	13313.1
50°	14193.9	14310.3	14528.7	14834.4	14863.5	14765.3	14892.6	14794.4	14568.7	14208.4
52.5°	14994.6	15118.3	15464.0	15878.9	15984.5	15857.1	16028.2	15857.1	15518.6	15056.4
55°	15835.3	15973.6	16384.8	16927.1	17138.2	17043.6	17203.7	16945.3	16464.9	15904.4
57.5°	16825.2	16908.9	17400.2	18044.4	18401.1	18422.9	18495.7	18059.0	17476.7	16839.8
60°	17898.8	18015.3	18550.3	19321.9	19886.0	20068.0	19991.5	19343.7	18666.8	17935.2
62.5°	19274.6	19401.9	20042.5	20966.9	21858.6	22309.9	22011.4	21072.4	20235.4	19358.3
65°	20413.7	20555.6	21713.0	23361.7	24984.9	25891.1	25141.4	23412.6	21905.9	20668.5
67.5°	19587.5	19762.2	21578.3	24606.4	28642.5	31346.6	28780.8	24977.6	22026.0	20348.2
70°	17120.0	17283.8	19401.9	23103.3	29672.5	35597.5	30291.2	23783.8	19471.1	17593.1
72.5°	11366.0	11893.7	14037.4	18477.5	26495.2	32940.7	26757.3	18102.6	13022.0	11340.5
75°	3770.5	4192.7	5655.7	9579.0	17746.0	24635.5	16894.3	8476.3	4480.2	3224.6
77.5°	949.9	1095.5	1510.4	2740.5	7078.7	14026.5	6372.7	2238.3	1219.2	851.6
80°	462.2	509.5	727.9	913.5	1772.4	4458.3	1663.2	858.9	575.0	444.0
82.5°	254.8	258.4	411.3	516.8	658.7	1153.7	684.2	502.2	331.2	269.3
85°	156.5	152.9	218.4	276.6	276.6	411.3	327.6	276.6	189.3	167.4
87.5°	61.9	61.9	80.1	87.3	76.4	105.5	83.7	91.0	72.8	69.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6944.1
6980.5
7035.1
7100.6
7162.4
7224.3
7322.6
7442.7
7581.0
7719.3
7875.8
8090.5
8396.2
8811.1
9335.2
9975.7
10725.5
11551.6
12432.4
13294.9
14201.2
15012.7
15828.0
16752.4
17818.8
19205.4
20464.7
20097.1
17342.0
10973.0
3049.9
760.6
407.6
269.3
174.7
72.8
0.0

OF REPORT)