

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: P953609

Luminaire Tested: **GALN-SB7A-840-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-840-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31976 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

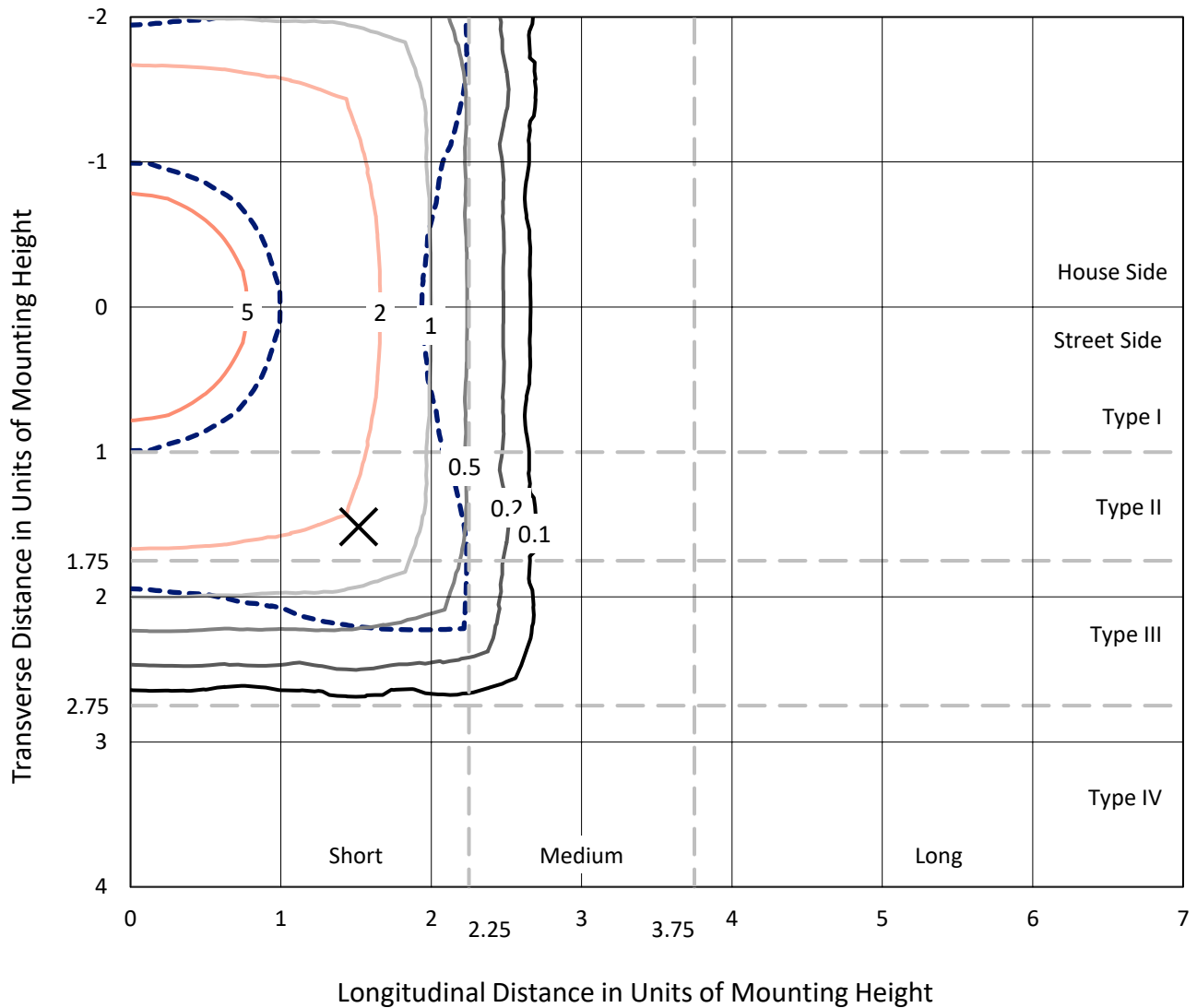
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

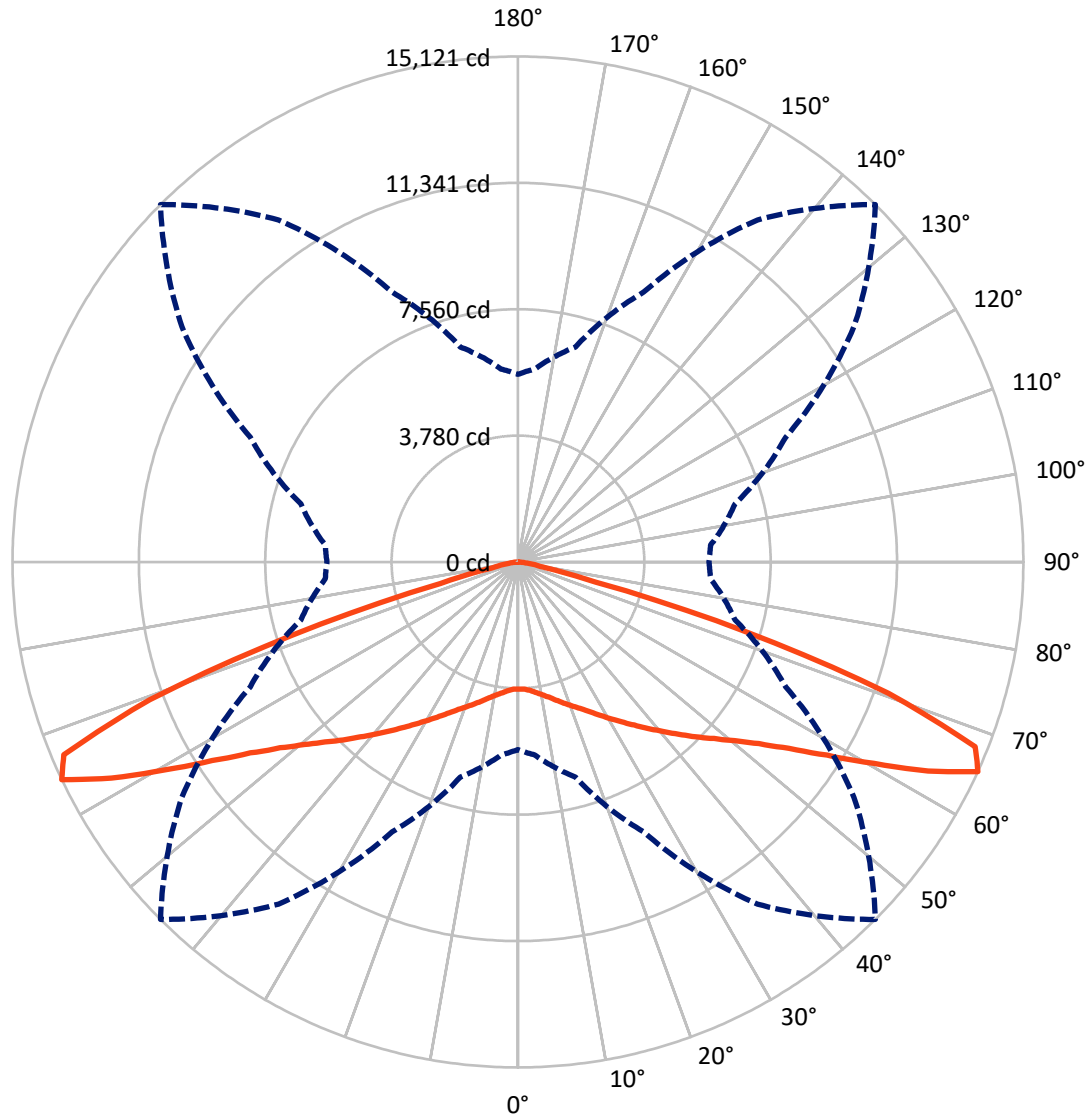
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15988.0	0.0	15988.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15988.0	0.0	15988.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31976.0	0.0	31976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	1.2
10°-20°	1225.5	3.8
20°-30°	2313.9	7.2
30°-40°	3788.9	11.8
40°-50°	5874.7	18.4
50°-60°	8678.1	27.1
60°-70°	8260.8	25.8
70°-80°	1333.0	4.2
80°-90°	125.7	0.4
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°	31976.0	100.0
0°-180°	31976.0	100.0

Coefficient of Utilization



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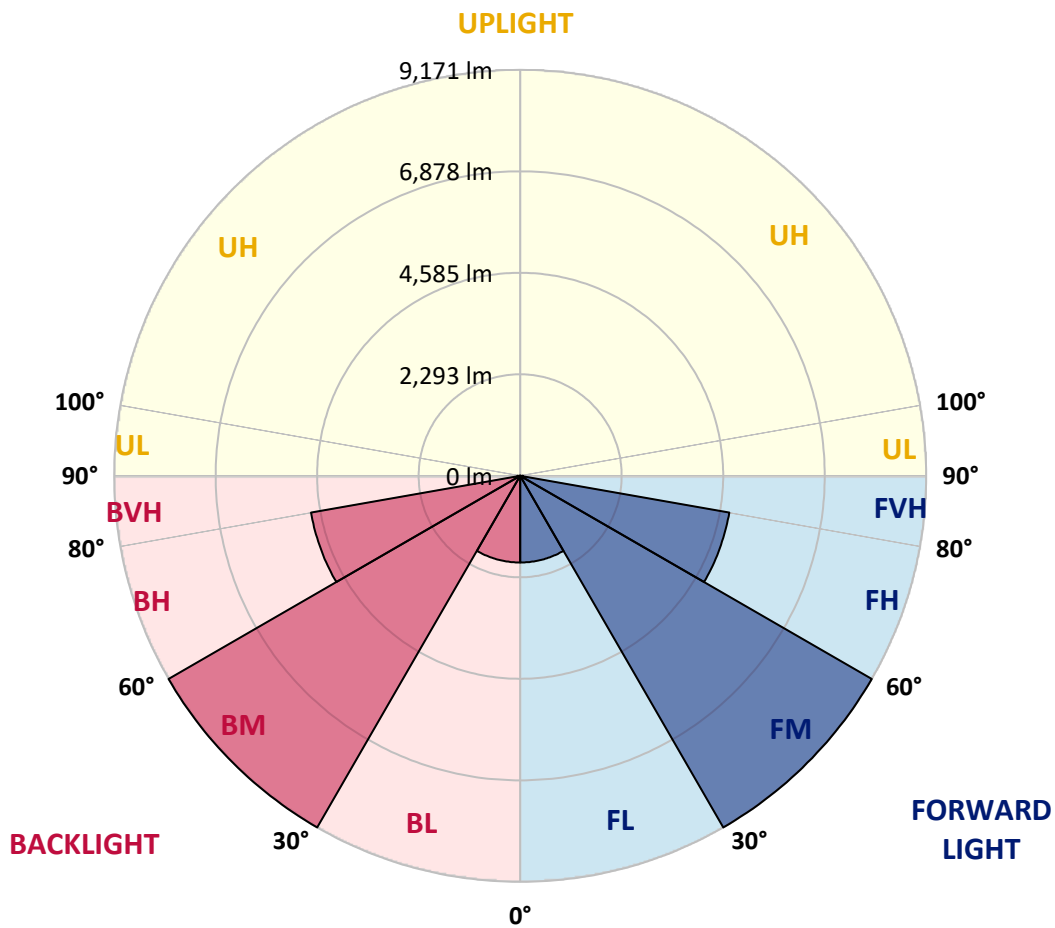
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.5	6.1			
FM (30°-60°)	9170.8	28.7			
FH (60°-80°)	4796.9	15.0			G2/5000
FVH (80°-90°)	62.8	0.2			G1/100
BL (0°-30°)	1957.5	6.1	B3/2500		
BM (30°-60°)	9170.8	28.7	B5		
BH (60°-80°)	4796.9	15.0	B4/5000		G2/5000
BVH (80°-90°)	62.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3805.5	3805.5	3805.5	3805.5	3805.5	3805.5	3805.5	3805.5	3805.5	3805.5
2.5°	3831.1	3818.3	3827.9	3819.9	3813.5	3807.1	3810.3	3821.5	3826.3	3827.9
5°	3882.5	3871.2	3876.1	3876.1	3864.8	3861.6	3863.2	3871.2	3880.9	3880.9
7.5°	3965.9	3954.7	3965.9	3959.5	3949.9	3946.6	3945.0	3951.5	3965.9	3965.9
10°	4067.0	4054.1	4060.6	4057.3	4046.1	4041.3	4039.7	4049.3	4062.2	4060.6
12.5°	4177.7	4163.2	4171.3	4161.6	4158.4	4153.6	4153.6	4152.0	4160.0	4153.6
15°	4301.2	4291.6	4294.8	4288.4	4293.2	4290.0	4277.1	4270.7	4273.9	4264.3
17.5°	4447.2	4424.7	4436.0	4432.8	4432.8	4439.2	4418.3	4410.3	4416.7	4407.1
20°	4615.6	4593.2	4598.0	4591.6	4583.6	4590.0	4564.3	4570.7	4575.5	4569.1
22.5°	4800.1	4771.3	4769.7	4772.9	4755.2	4756.8	4739.2	4755.2	4764.9	4747.2
25°	4989.5	4959.0	4979.8	4971.8	4949.3	4954.2	4941.3	4957.4	4965.4	4942.9
27.5°	5190.0	5169.1	5188.4	5193.2	5165.9	5185.2	5165.9	5180.4	5188.4	5154.7
30°	5424.2	5403.4	5421.0	5433.9	5401.8	5432.3	5416.2	5425.8	5427.4	5387.3
32.5°	5679.3	5647.2	5692.2	5698.6	5663.3	5700.2	5679.3	5692.2	5700.2	5645.6
35°	5990.6	5950.4	6001.8	5993.8	5963.3	5993.8	5974.5	5993.8	6013.0	5947.2
37.5°	6325.9	6284.1	6338.7	6324.3	6295.4	6316.2	6305.0	6317.8	6348.3	6277.7
40°	6694.9	6643.5	6717.3	6691.6	6664.4	6661.2	6667.6	6675.6	6715.7	6637.1
42.5°	7089.5	7035.0	7145.7	7105.6	7067.1	7041.4	7062.2	7078.3	7116.8	7028.6
45°	7540.3	7477.8	7622.2	7574.0	7513.1	7460.1	7493.8	7517.9	7574.0	7468.1
47.5°	8037.7	7967.1	8121.1	8106.7	8007.2	7891.7	7968.7	8037.7	8079.4	7951.0
50°	8523.8	8469.2	8671.4	8689.0	8567.1	8405.1	8512.6	8616.8	8628.1	8459.6
52.5°	8979.4	8924.9	9218.5	9329.2	9220.1	9027.5	9141.5	9247.3	9162.3	8944.1
55°	9343.6	9298.7	9672.5	9958.1	9995.0	9836.1	9903.5	9900.3	9621.1	9285.8
57.5°	9431.8	9425.4	9897.1	10501.9	10887.0	10906.2	10773.1	10432.9	9831.3	9380.5
60°	9030.8	9070.9	9719.0	10785.9	11812.7	12239.4	11663.5	10692.8	9592.3	8966.6
62.5°	7830.7	7936.6	8717.9	10439.4	12560.3	13773.1	12377.4	10298.2	8610.4	7793.8
65°	5611.9	5796.4	6659.6	8908.8	12492.9	15120.8	12274.7	8836.6	6723.7	5782.0
67.5°	2546.1	2733.8	3467.0	6099.7	10859.7	14755.0	10834.0	6163.8	3640.2	2743.4
70°	922.5	954.6	1190.4	2441.8	6940.3	11756.5	7237.1	2459.4	1265.8	1017.1
72.5°	558.3	563.1	612.9	874.4	2411.3	7137.7	2514.0	903.2	625.7	555.1
75°	354.6	351.3	436.4	534.2	855.1	2408.1	896.8	534.2	434.8	396.3
77.5°	255.1	263.1	312.8	399.5	539.1	816.6	529.4	381.8	312.8	256.7
80°	190.9	195.7	227.8	311.2	378.6	508.6	336.9	282.4	235.8	160.4
82.5°	138.0	138.0	149.2	226.2	231.0	274.3	182.9	198.9	155.6	113.9
85°	81.8	80.2	93.1	134.8	120.3	101.1	83.4	121.9	97.9	70.6
87.5°	28.9	30.5	28.9	38.5	32.1	27.3	25.7	33.7	27.3	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3805.5
3827.9
3880.9
3961.1
4057.3
4156.8
4265.9
4415.1
4583.6
4764.9
4968.6
5180.4
5411.4
5682.5
5987.3
6321.0
6662.8
7075.1
7522.7
7994.4
8480.5
8950.5
9297.1
9351.6
8892.8
7745.7
5713.0
2703.3
1004.3
564.7
399.5
261.5
165.2
113.9
69.0
22.5
0.0

OF REPORT)