

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: P943573

Luminaire Tested: **GALN-SB8A-840-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-840-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34323 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

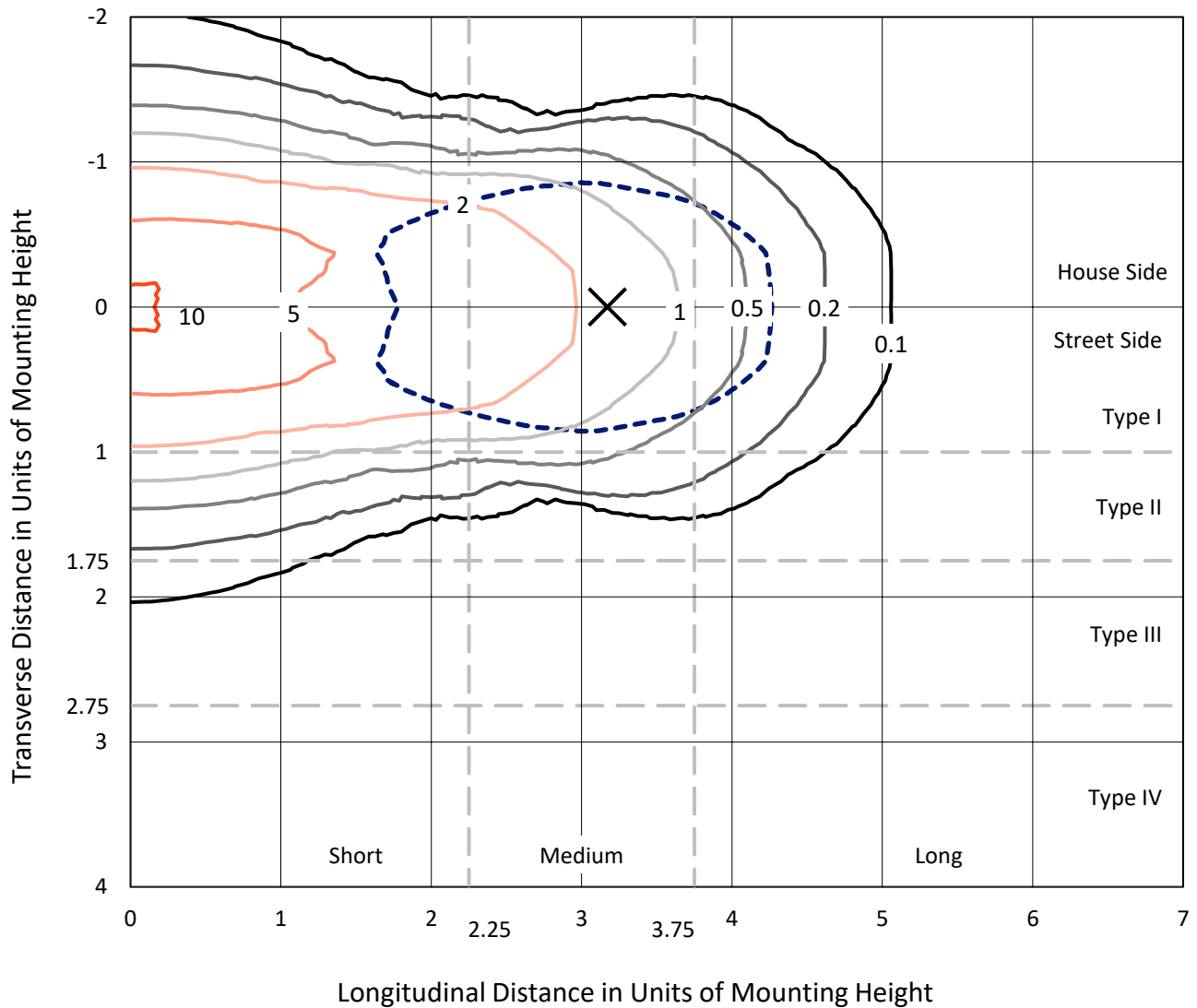
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

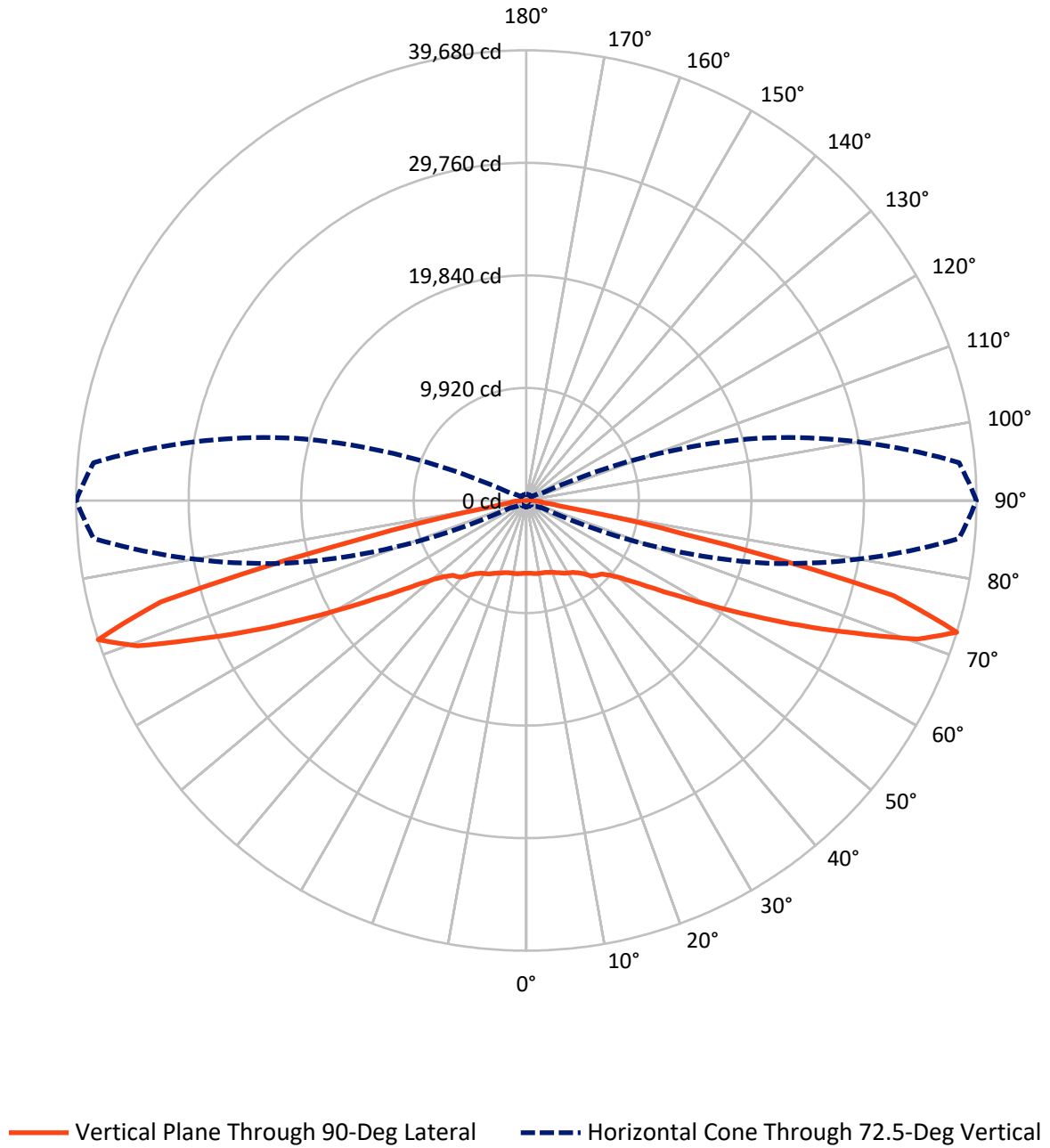
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17161.5	0.0	17161.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17161.5	0.0	17161.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34323.0	0.0	34323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.9	1.8
10°-20°	1901.5	5.5
20°-30°	3170.5	9.2
30°-40°	4360.4	12.7
40°-50°	5325.3	15.5
50°-60°	6159.2	17.9
60°-70°	7343.9	21.4
70°-80°	5125.5	14.9
80°-90°	314.8	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°	34323.0	100.0
0°-180°	34323.0	100.0

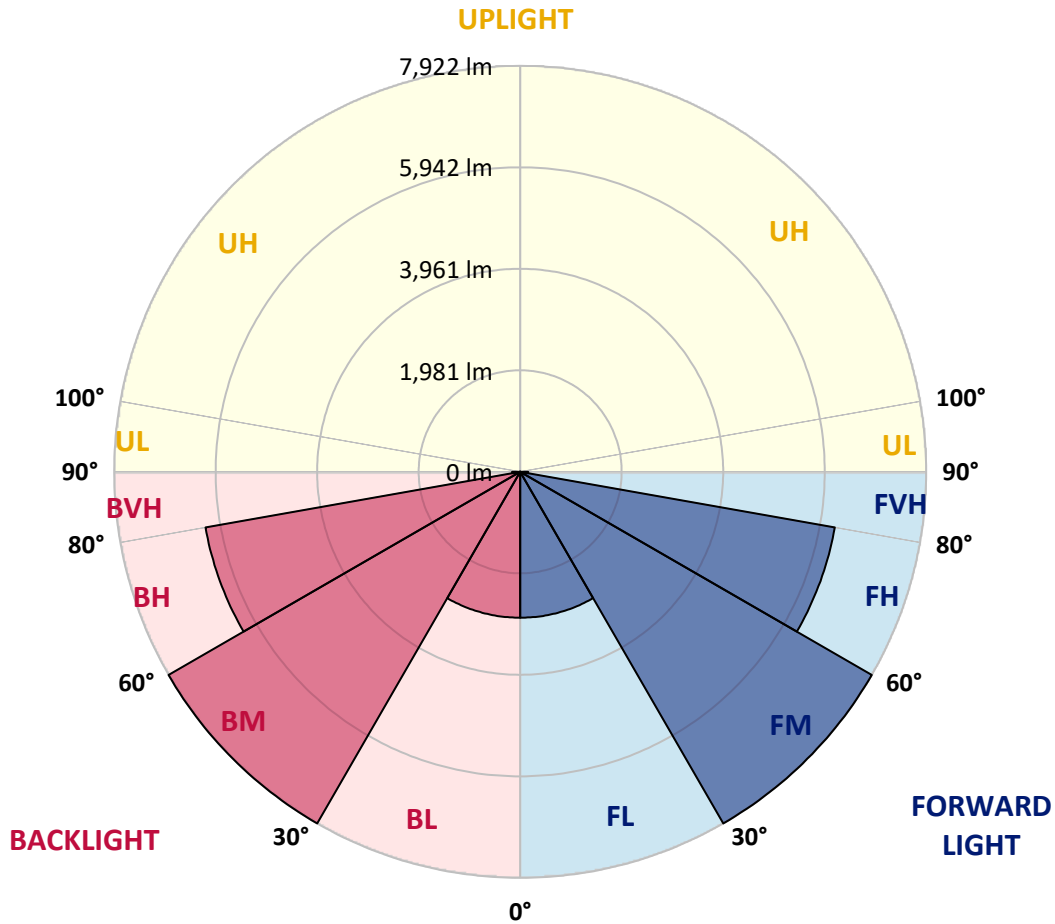


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2846.9	8.3			
FM (30°-60°)	7922.5	23.1			
FH (60°-80°)	6234.7	18.2			G3/7500
FVH (80°-90°)	157.4	0.5			G2/225
BL (0°-30°)	2846.9	8.3	B4/5000		
BM (30°-60°)	7922.5	23.1	B4/8500		
BH (60°-80°)	6234.7	18.2	B5		G5
BVH (80°-90°)	157.4	0.5			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6413.6	6413.6	6413.6	6413.6	6413.6	6413.6	6413.6	6413.6	6413.6	6413.6
2.5°	6419.1	6426.4	6426.4	6420.9	6433.7	6422.7	6422.7	6417.3	6422.7	6417.3
5°	6451.9	6461.0	6464.7	6462.9	6479.3	6470.2	6470.2	6462.9	6464.7	6459.2
7.5°	6513.9	6526.7	6534.0	6543.1	6566.8	6555.9	6548.6	6526.7	6517.6	6503.0
10°	6534.0	6548.6	6572.3	6619.7	6674.5	6676.3	6654.4	6599.7	6557.7	6524.9
12.5°	6472.0	6492.1	6541.3	6638.0	6760.2	6809.4	6774.8	6683.6	6601.5	6543.1
15°	6393.5	6415.4	6490.2	6636.2	6816.7	6931.7	6928.0	6807.6	6676.3	6585.1
17.5°	6271.3	6293.2	6400.8	6605.1	6860.5	7050.2	7101.3	6977.3	6793.0	6670.8
20°	6050.6	6070.7	6220.3	6506.6	6875.1	7176.1	7309.3	7199.8	6970.0	6804.0
22.5°	5764.2	5795.2	5970.4	6337.0	6840.5	7307.4	7546.4	7471.6	7176.1	6946.3
25°	5457.8	5490.6	5694.9	6129.1	6751.1	7402.3	7827.3	7779.9	7409.6	7123.2
27.5°	5193.3	5227.9	5450.5	5922.9	6612.4	7438.8	8104.6	8128.3	7692.3	7318.4
30°	4985.3	5018.2	5255.3	5756.9	6433.7	7402.3	8347.2	8511.4	7980.5	7488.0
32.5°	4757.3	4799.3	5049.2	5554.5	6222.1	7314.7	8558.8	8925.4	8314.4	7670.4
35°	4469.1	4507.4	4770.1	5277.2	5944.8	7174.3	8735.7	9385.1	8792.3	7947.7
37.5°	4118.9	4155.4	4416.2	4930.6	5669.4	6977.3	8870.7	9903.2	9361.4	8347.2
40°	3766.8	3801.5	4045.9	4543.9	5339.2	6725.5	8918.1	10410.3	10014.4	8896.2
42.5°	3443.9	3475.0	3699.3	4162.6	4968.9	6404.5	8856.1	10851.7	10600.0	9279.3
45°	3146.6	3174.0	3372.8	3805.1	4584.0	6014.1	8670.1	11326.0	11296.8	9552.9
47.5°	2807.3	2834.7	3040.8	3458.5	4199.1	5556.3	8354.5	11793.0	12265.4	10173.1
50°	2393.2	2417.0	2628.6	3059.1	3799.6	5069.2	7916.7	12159.6	13487.6	11112.6
52.5°	1902.6	1928.1	2134.2	2564.7	3325.4	4545.7	7340.3	12398.6	14899.4	12484.3
55°	1415.5	1433.8	1612.5	1999.2	2738.0	3949.2	6617.9	12466.1	16501.0	14359.5
57.5°	1027.0	1037.9	1152.8	1441.1	2075.9	3203.2	5740.5	12290.9	18407.2	16763.7
60°	831.8	835.4	870.1	997.8	1442.9	2360.4	4680.7	11689.0	20475.8	19862.9
62.5°	755.2	755.2	764.3	799.0	975.9	1557.8	3398.3	10441.3	22693.9	23779.3
65°	702.3	702.3	705.9	722.4	769.8	992.3	2145.2	8409.2	24563.6	28366.9
67.5°	654.9	656.7	654.9	660.3	687.7	733.3	1244.1	5808.0	25570.5	33120.6
70°	605.6	609.3	600.1	600.1	622.0	623.8	778.9	3184.9	24735.1	37104.5
72.5°	547.2	552.7	538.1	534.5	550.9	543.6	585.5	1528.6	21236.4	38293.8
75°	496.2	503.5	470.6	461.5	461.5	456.0	476.1	784.4	13783.1	31238.1
77.5°	450.6	465.2	412.3	383.1	375.8	359.4	388.5	479.7	6028.7	14665.9
80°	372.1	392.2	339.3	304.6	291.9	273.6	306.5	335.6	1793.1	3405.6
82.5°	277.3	286.4	240.8	217.1	206.1	193.4	229.8	233.5	583.7	1205.7
85°	176.9	180.6	147.8	127.7	122.2	116.7	145.9	127.7	222.5	886.5
87.5°	62.0	71.1	56.5	51.1	54.7	45.6	67.5	38.3	62.0	625.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6413.6
6417.3
6459.2
6503.0
6519.4
6534.0
6570.5
6650.8
6773.0
6904.3
7064.8
7256.4
7398.6
7557.3
7821.8
8179.4
8717.5
9049.5
9242.8
9815.6
10663.8
11931.6
13668.2
15893.6
18766.6
22310.8
26510.0
31115.9
36577.3
39680.1
33412.5
14361.3
3261.5
1362.6
1287.8
775.3
0.0

OF REPORT)