

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: P652622

Luminaire Tested: **GALN-SA9B-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43306.5 lumens
Efficiency: N/A
Efficacy: 119.0 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

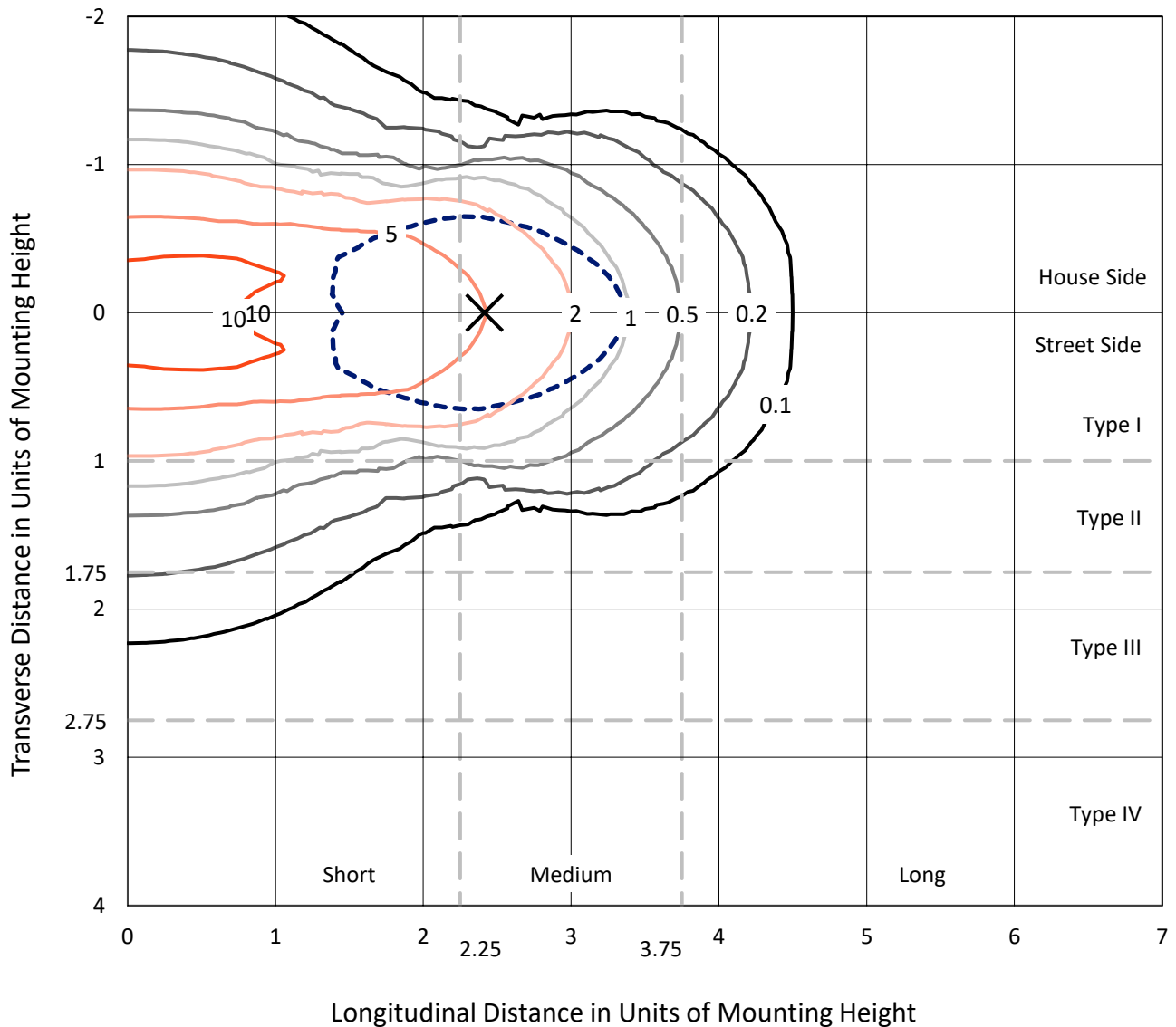
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

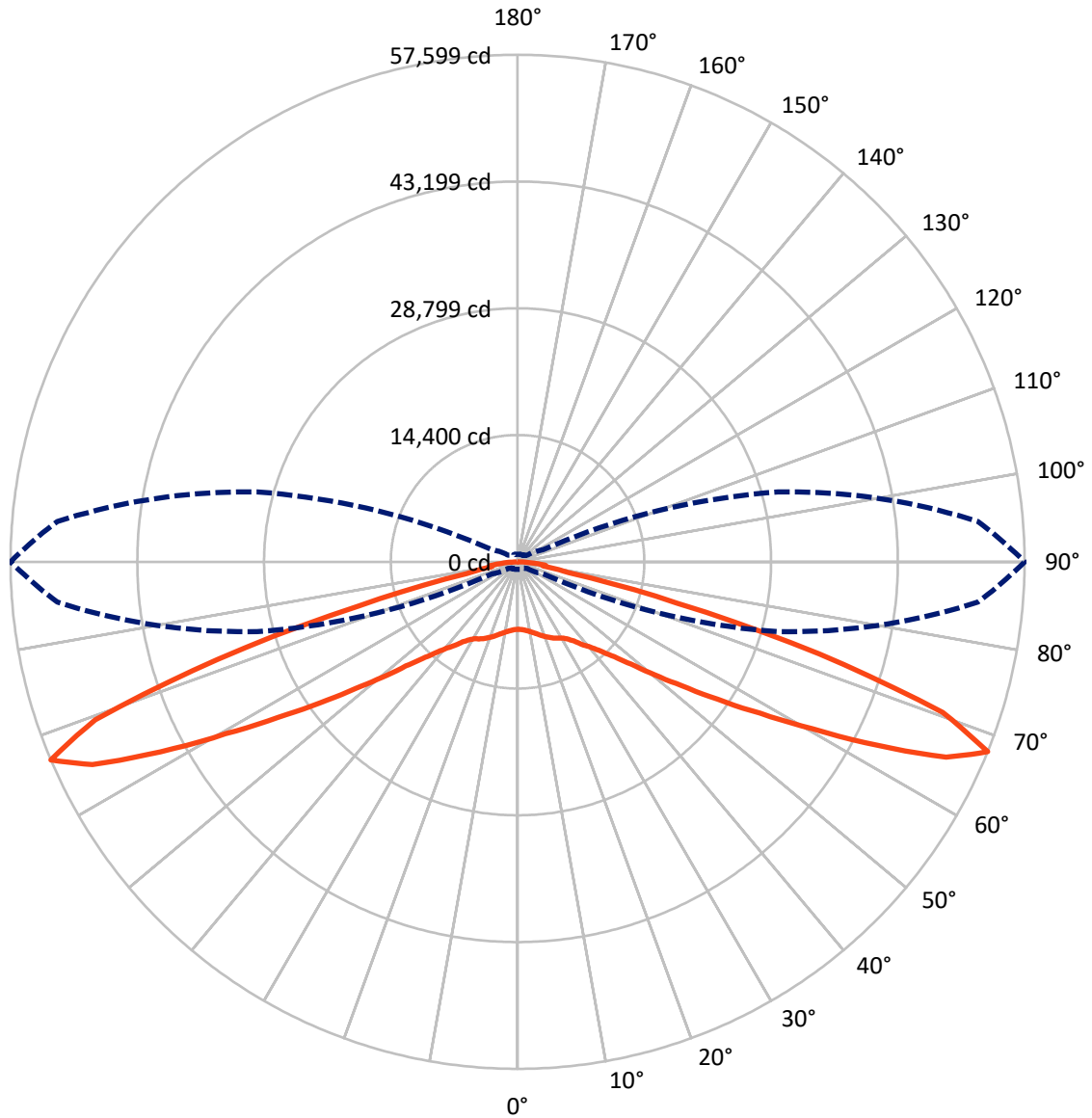
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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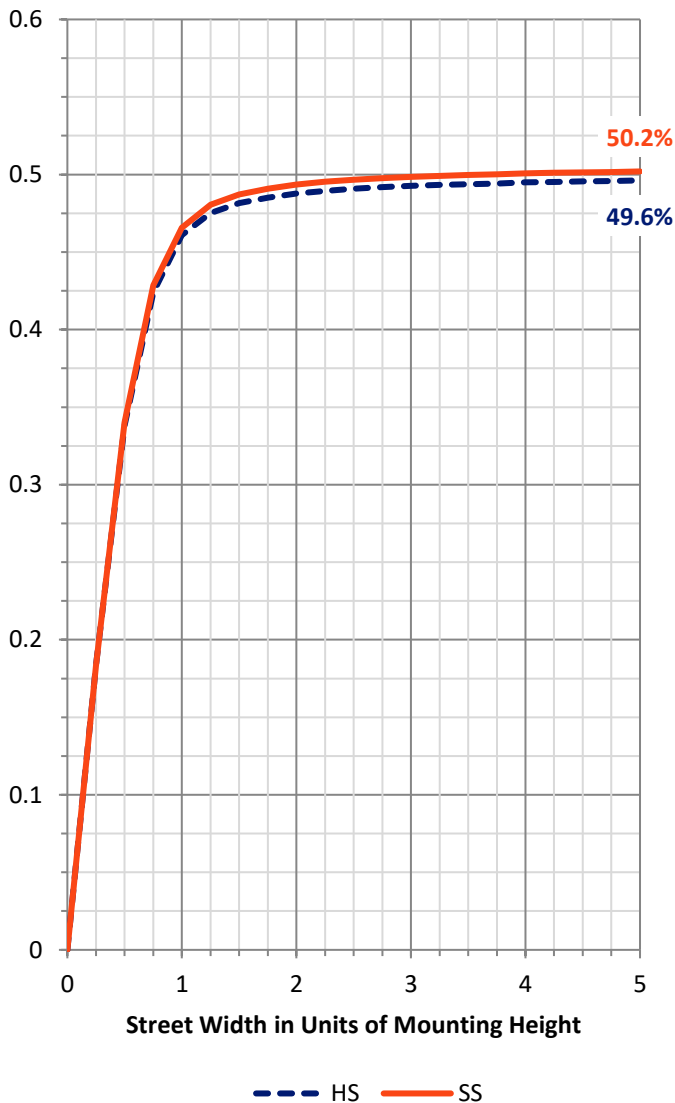
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21653.2	0.0	21653.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21653.2	0.0	21653.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	43306.5	0.0	43306.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.4	1.8
10°-20°	2445.5	5.6
20°-30°	4093.2	9.5
30°-40°	5545.2	12.8
40°-50°	7023.9	16.2
50°-60°	8774.6	20.3
60°-70°	10314.2	23.8
70°-80°	3945.7	9.1
80°-90°	399.7	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°	43306.5	100.0
0°-180°	43306.5	100.0

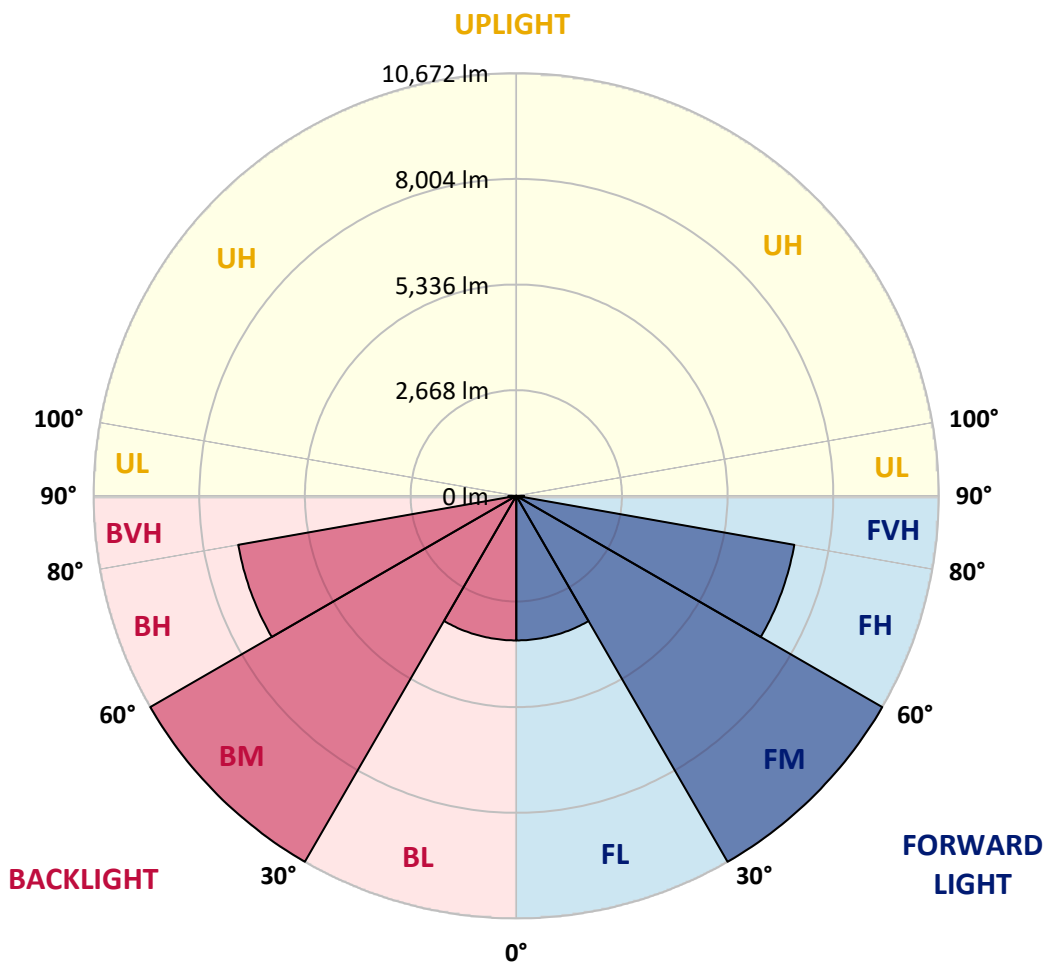


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3651.5	8.4			
FM (30°-60°)	10671.9	24.6			
FH (60°-80°)	7129.9	16.5			G3/7500
FVH (80°-90°)	199.9	0.5			G2/225
BL (0°-30°)	3651.5	8.4	B4/5000		
BM (30°-60°)	10671.9	24.6	B5		
BH (60°-80°)	7129.9	16.5	B5		G5
BVH (80°-90°)	199.9	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°	90°
0°	7666.6	7666.6	7666.6	7666.6	7666.6	7666.6	7666.6	7666.6	7666.6	7666.6	7666.6
2.5°	7765.0	7760.1	7762.5	7760.1	7767.3	7762.5	7733.8	7709.8	7690.6	7693.0	7685.8
5°	7930.4	7932.8	7935.2	7923.1	7940.0	7930.4	7884.8	7846.4	7808.1	7793.7	7788.9
7.5°	8067.0	8079.1	8086.2	8098.2	8127.0	8127.0	8103.0	8047.9	7963.9	7916.0	7913.6
10°	8203.8	8213.4	8234.9	8273.3	8321.3	8366.9	8357.3	8282.9	8174.9	8093.4	8074.3
12.5°	8251.7	8263.7	8335.7	8446.0	8553.9	8642.6	8642.6	8582.7	8443.6	8318.8	8282.9
15°	8083.9	8105.5	8234.9	8470.0	8752.9	8947.1	8990.3	8906.4	8757.7	8565.8	8522.7
17.5°	7750.5	7803.3	7992.7	8340.4	8810.5	9213.3	9338.0	9297.3	9105.4	8860.9	8810.5
20°	7393.2	7450.8	7652.2	8112.6	8762.5	9369.2	9731.3	9740.9	9503.5	9148.6	9074.2
22.5°	6999.9	7043.1	7302.1	7841.7	8618.7	9405.2	10069.5	10234.9	9913.5	9436.4	9330.8
25°	6558.7	6606.6	6877.6	7460.3	8347.6	9364.5	10378.8	10743.3	10342.8	9743.3	9609.0
27.5°	6136.6	6155.8	6446.0	7038.3	7990.3	9258.9	10606.6	11211.0	10817.6	9997.5	9827.3
30°	5731.3	5776.9	6033.5	6618.7	7580.3	9052.7	10803.2	11743.3	11328.4	10263.6	10045.5
32.5°	5302.1	5357.3	5635.5	6227.8	7170.2	8743.3	10923.2	12326.0	12040.7	10695.3	10462.7
35°	4889.7	4925.6	5206.2	5781.7	6769.7	8383.6	10944.8	12983.1	12959.1	11350.0	11040.6
37.5°	4467.6	4520.4	4803.3	5354.9	6345.3	8002.3	10836.8	13680.9	14067.0	12258.8	11925.5
40°	4062.3	4107.9	4386.1	4942.4	5863.3	7537.1	10580.2	14318.8	15359.5	13194.1	12721.7
42.5°	3621.1	3633.0	3937.6	4503.6	5390.8	6997.5	10210.9	14887.1	16800.8	14448.3	13860.8
45°	3119.9	3151.1	3434.1	3990.4	4848.9	6393.2	9709.8	15357.2	18628.1	16186.9	15385.9
47.5°	2618.7	2645.0	2904.1	3453.2	4256.6	5700.2	8937.6	15769.6	20503.4	18395.5	17345.1
50°	2129.5	2143.9	2354.9	2841.7	3589.9	4971.2	7980.8	15901.5	22623.2	21522.5	20182.1
52.5°	1683.4	1705.0	1865.7	2247.0	2877.6	4110.3	6947.2	15575.4	25098.0	25230.0	23340.3
55°	1364.5	1371.7	1491.6	1772.2	2249.3	3208.6	5700.2	14666.5	27759.9	29980.6	27570.5
57.5°	1175.0	1179.8	1247.0	1402.9	1731.4	2419.6	4422.0	12947.1	30150.8	35546.4	32448.1
60°	1067.1	1069.5	1107.9	1199.0	1371.7	1856.1	3167.8	10520.3	32510.5	41740.6	38510.4
62.5°	999.9	999.9	1026.4	1076.7	1160.7	1424.5	2294.9	7589.9	34126.8	48025.9	45982.8
65°	935.3	935.3	954.5	990.4	1035.9	1165.5	1695.5	4949.6	34086.0	52603.8	53498.3
67.5°	860.9	860.9	875.3	911.2	937.6	1002.4	1309.4	3242.1	30618.4	52503.0	57598.9
70°	772.2	772.2	791.4	822.5	844.1	884.9	1033.6	2218.2	22493.8	44829.3	51224.9
72.5°	683.5	685.8	697.9	729.0	745.8	769.8	858.5	1553.9	13798.5	30524.9	35817.3
75°	585.2	590.0	601.9	633.1	647.5	657.1	724.2	1107.9	6980.7	16457.9	18738.4
77.5°	472.4	482.0	489.2	522.8	532.4	546.7	597.1	801.0	3064.7	5913.6	5966.4
80°	345.3	357.3	378.9	410.1	417.2	426.9	455.7	568.3	1388.5	2700.2	2932.8
82.5°	254.2	271.0	244.6	285.4	285.4	273.4	321.3	381.3	637.9	2673.9	3199.0
85°	139.1	141.5	127.1	146.2	155.8	153.5	170.3	187.0	309.3	1784.2	1839.4
87.5°	33.6	36.0	38.3	45.6	55.2	55.2	60.0	52.7	100.8	577.9	330.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)