

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: P652127

Luminaire Tested: **GALN-SA9A-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652127
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-SA9A-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34804.8 lumens
Efficiency: N/A
Efficacy: 127.0 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

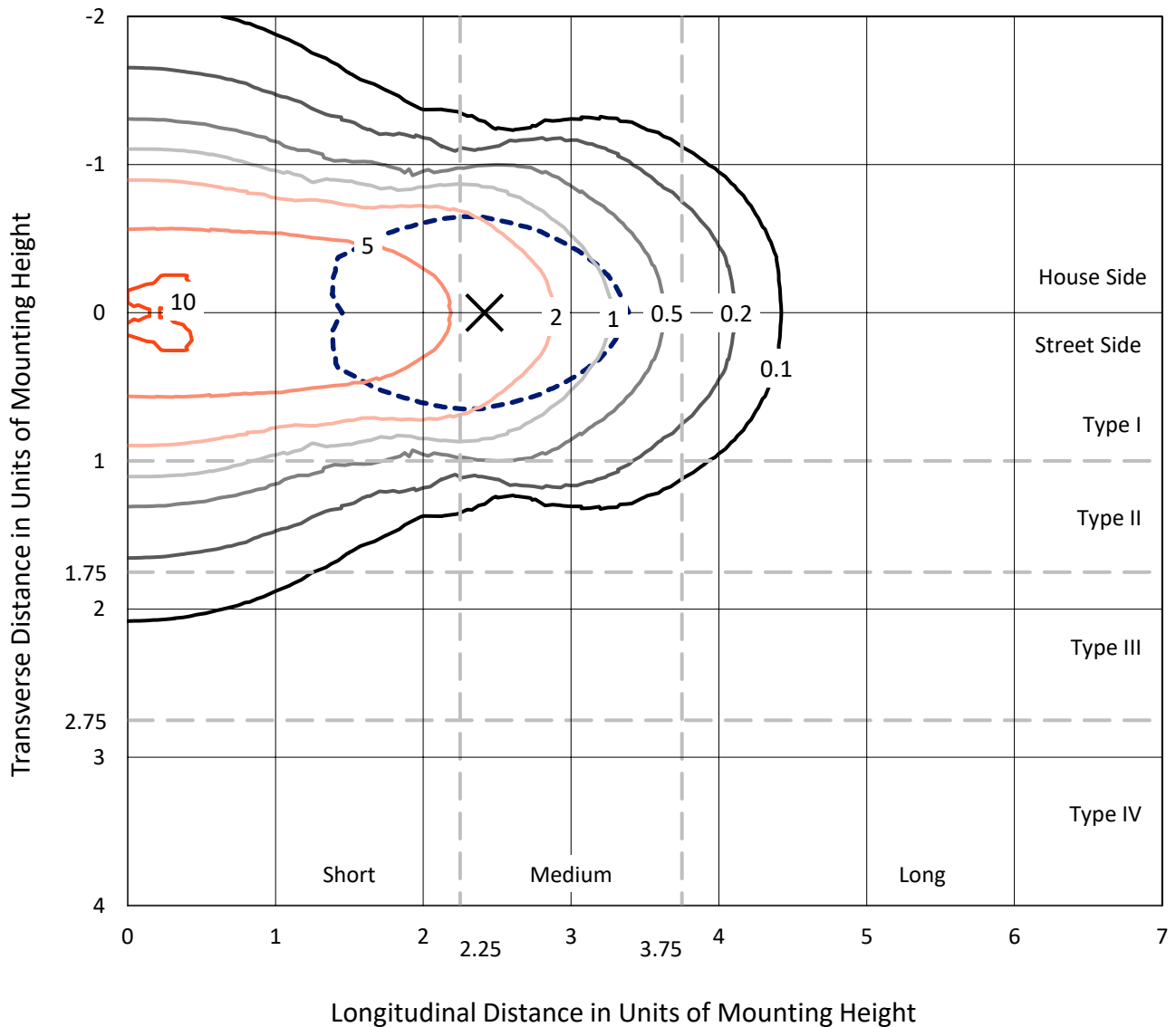
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

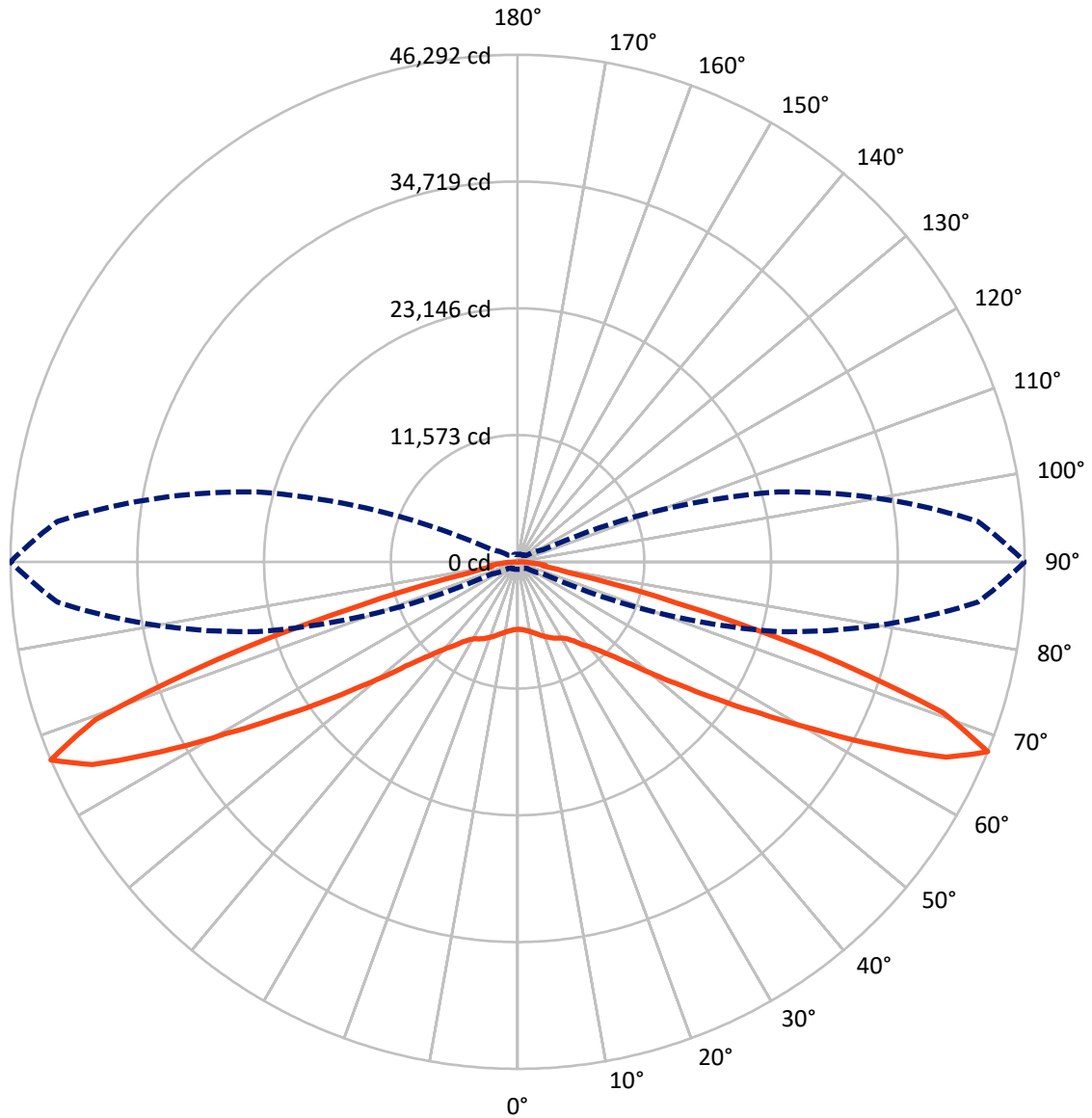
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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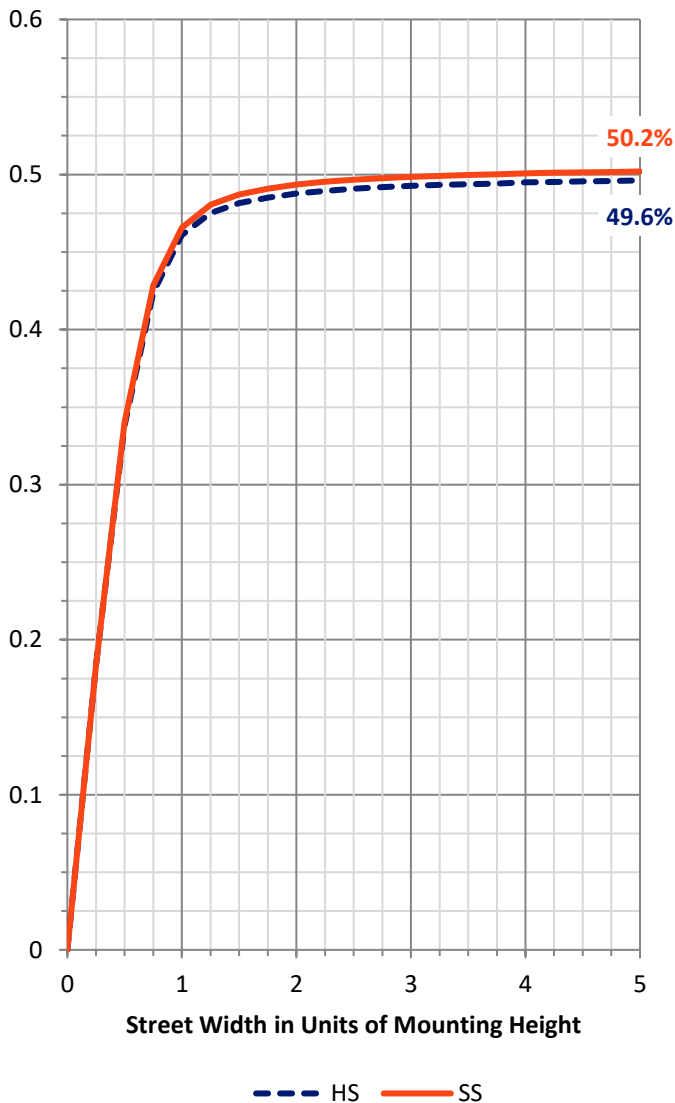
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17402.4	0.0	17402.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17402.4	0.0	17402.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34804.8	0.0	34804.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	1.8
10°-20°	1965.4	5.6
20°-30°	3289.6	9.5
30°-40°	4456.6	12.8
40°-50°	5645.0	16.2
50°-60°	7052.1	20.3
60°-70°	8289.4	23.8
70°-80°	3171.1	9.1
80°-90°	321.3	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°	34804.8	100.0
0°-180°	34804.8	100.0

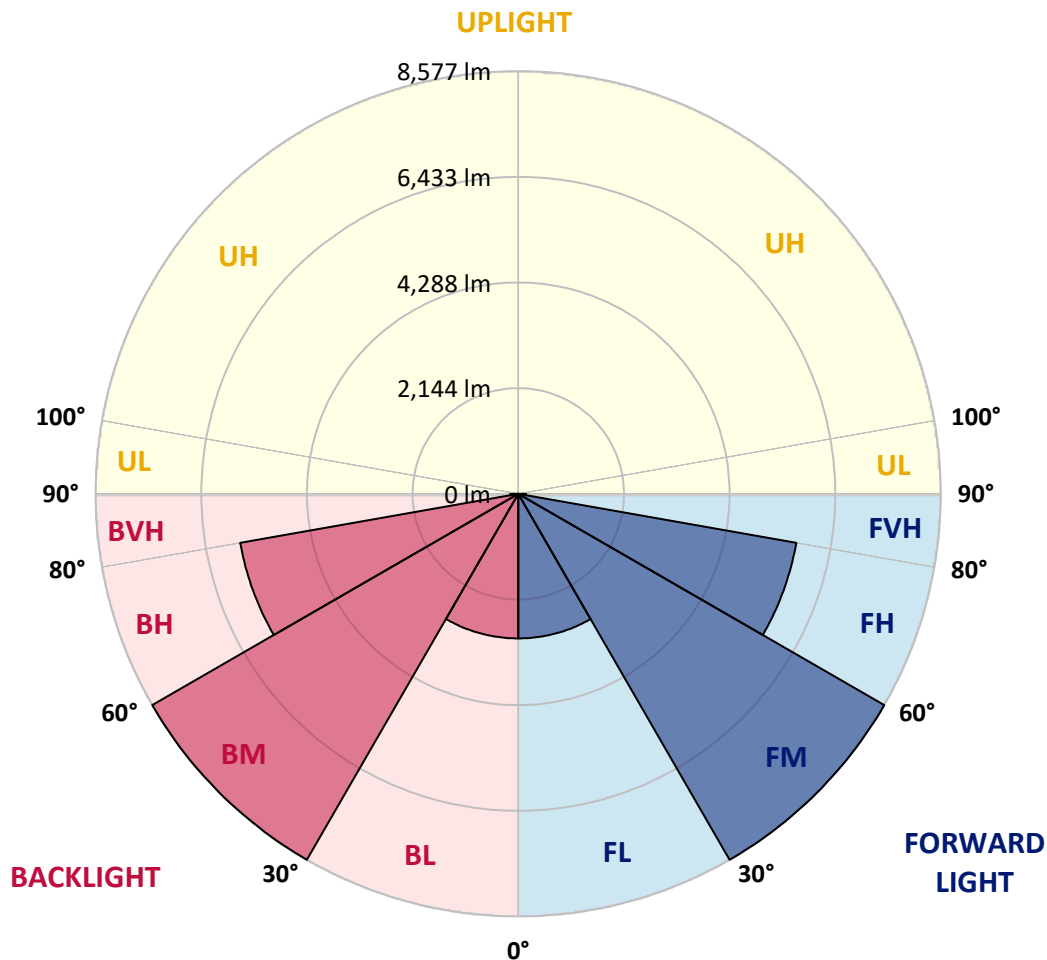


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.7	8.4			
FM (30°-60°)	8576.8	24.6			
FH (60°-80°)	5730.2	16.5			G3/7500
FVH (80°-90°)	160.6	0.5			G2/225
BL (0°-30°)	2934.7	8.4	B4/5000		
BM (30°-60°)	8576.8	24.6	B5		
BH (60°-80°)	5730.2	16.5	B5		G5
BVH (80°-90°)	160.6	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°	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5
2.5°	6240.6	6236.7	6238.6	6236.7	6242.5	6238.6	6215.5	6196.2	6180.8	6182.7	6177.0
5°	6373.5	6375.5	6377.4	6367.7	6381.3	6373.5	6336.9	6306.1	6275.2	6263.7	6259.8
7.5°	6483.4	6493.0	6498.8	6508.4	6531.5	6531.5	6512.3	6468.0	6400.5	6362.0	6360.1
10°	6593.3	6600.9	6618.3	6649.1	6687.7	6724.3	6716.6	6656.9	6570.1	6504.5	6489.2
12.5°	6631.8	6641.5	6699.2	6787.9	6874.6	6945.9	6945.9	6897.7	6785.9	6685.8	6656.9
15°	6496.9	6514.2	6618.3	6807.1	7034.6	7190.7	7225.4	7157.9	7038.4	6884.3	6849.6
17.5°	6229.0	6271.4	6423.6	6703.1	7080.9	7404.7	7504.8	7472.1	7317.9	7121.3	7080.9
20°	5941.8	5988.1	6150.0	6520.0	7042.3	7529.9	7821.0	7828.6	7637.8	7352.6	7292.8
22.5°	5625.8	5660.4	5868.6	6302.2	6926.6	7558.8	8092.7	8225.7	7967.4	7583.9	7499.0
25°	5271.1	5309.7	5527.5	5995.8	6708.9	7526.0	8341.3	8634.2	8312.4	7830.6	7722.7
27.5°	4932.0	4947.4	5180.6	5656.6	6421.7	7441.3	8524.4	9010.1	8694.0	8034.8	7898.0
30°	4606.2	4642.8	4849.0	5319.3	6092.1	7275.5	8682.4	9438.0	9104.5	8248.8	8073.4
32.5°	4261.3	4305.6	4529.1	5005.1	5762.6	7026.9	8778.8	9906.2	9676.9	8595.7	8408.7
35°	3929.7	3958.7	4184.1	4646.7	5440.8	6737.8	8796.1	10434.3	10415.0	9121.8	8873.2
37.5°	3590.6	3633.0	3860.4	4303.6	5099.6	6431.4	8709.4	10995.1	11305.5	9852.3	9584.4
40°	3264.8	3301.4	3525.0	3972.1	4712.2	6057.5	8503.2	11507.8	12344.3	10603.9	10224.3
42.5°	2910.2	2919.9	3164.6	3619.4	4332.5	5623.9	8206.4	11964.6	13502.6	11611.9	11139.7
45°	2507.4	2532.4	2759.9	3207.0	3896.9	5138.2	7803.6	12342.3	14971.1	13009.2	12365.5
47.5°	2104.6	2125.8	2333.9	2775.3	3420.9	4581.2	7183.0	12673.8	16478.3	14784.2	13940.1
50°	1711.4	1723.0	1892.6	2283.8	2885.1	3995.3	6414.0	12779.8	18182.0	17297.4	16220.0
52.5°	1352.9	1370.3	1499.4	1805.9	2312.8	3303.4	5583.3	12517.7	20171.0	20276.9	18758.3
55°	1096.7	1102.4	1198.8	1424.2	1807.8	2578.7	4581.2	11787.3	22310.2	24094.9	22158.0
57.5°	944.4	948.2	1002.2	1127.4	1391.5	1944.6	3553.9	10405.4	24231.7	28568.2	26078.1
60°	857.7	859.6	890.4	963.6	1102.4	1491.7	2546.0	8455.0	26128.2	33546.3	30950.3
62.5°	803.7	803.7	824.9	865.4	932.8	1144.8	1844.4	6099.9	27427.2	38597.8	36955.7
65°	751.6	751.6	767.1	796.0	832.6	936.6	1362.6	3977.9	27394.4	42276.9	42995.8
67.5°	691.9	691.9	703.5	732.3	753.5	805.6	1052.3	2605.7	24607.6	42196.0	46291.5
70°	620.6	620.6	636.0	661.0	678.4	711.1	830.7	1782.8	18078.0	36028.7	41168.7
72.5°	549.3	551.2	560.9	585.9	599.4	618.6	690.0	1248.9	11089.6	24532.4	28785.9
75°	470.3	474.1	483.7	508.8	520.3	528.1	582.1	890.4	5610.3	13227.0	15059.8
77.5°	379.7	387.4	393.2	420.2	427.8	439.4	479.9	643.7	2463.0	4752.7	4795.0
80°	277.5	287.2	304.5	329.6	335.3	343.0	366.2	456.7	1115.9	2170.1	2357.1
82.5°	204.3	217.8	196.5	229.3	229.3	219.7	258.3	306.5	512.7	2148.9	2571.0
85°	111.8	113.7	102.2	117.6	125.3	123.4	136.8	150.3	248.6	1433.9	1478.2
87.5°	27.0	28.9	30.9	36.6	44.3	44.3	48.2	42.4	80.9	464.5	265.9
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)