

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: P651393

Luminaire Tested: **GALN-SA5D-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33614.7 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

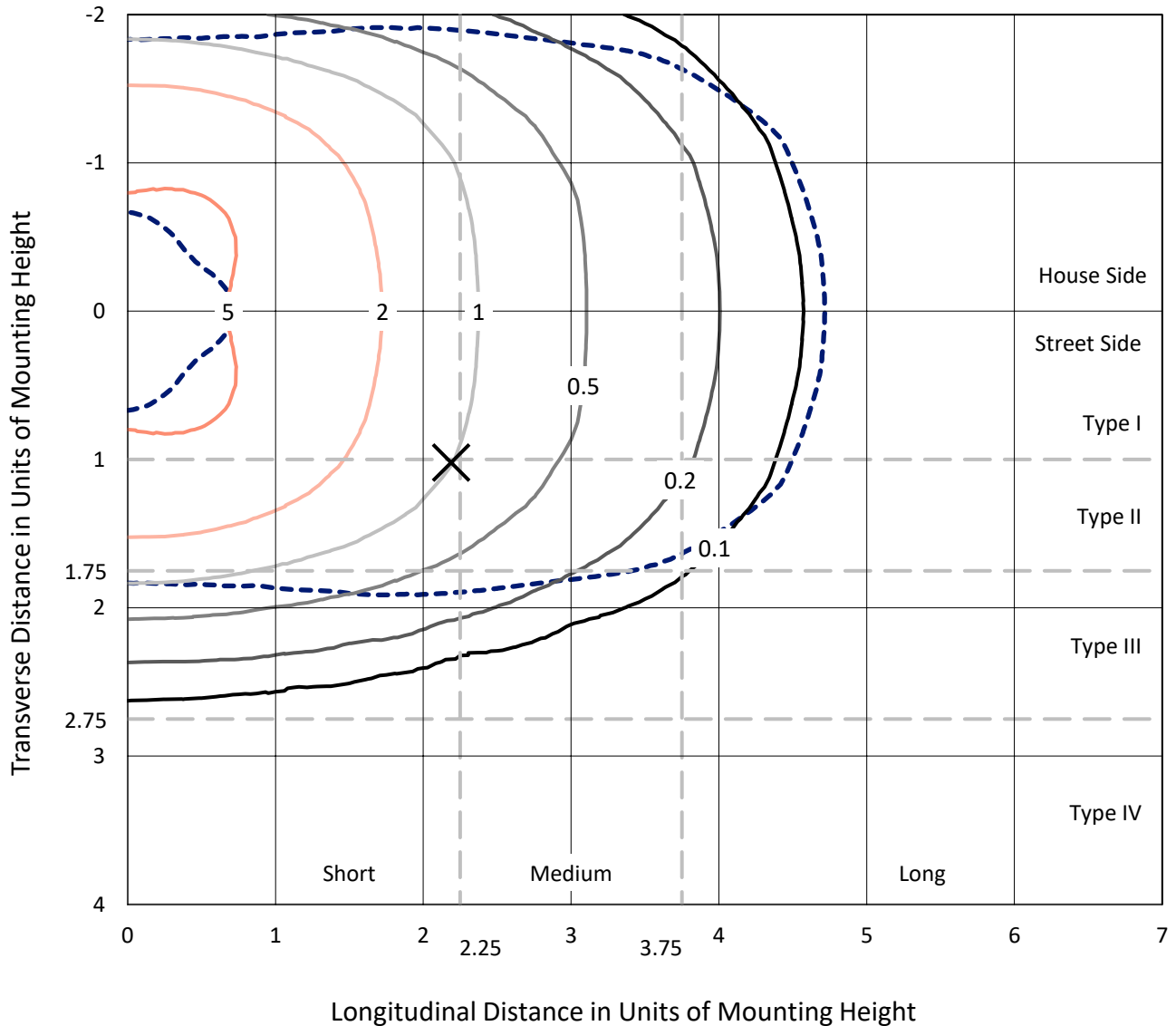
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

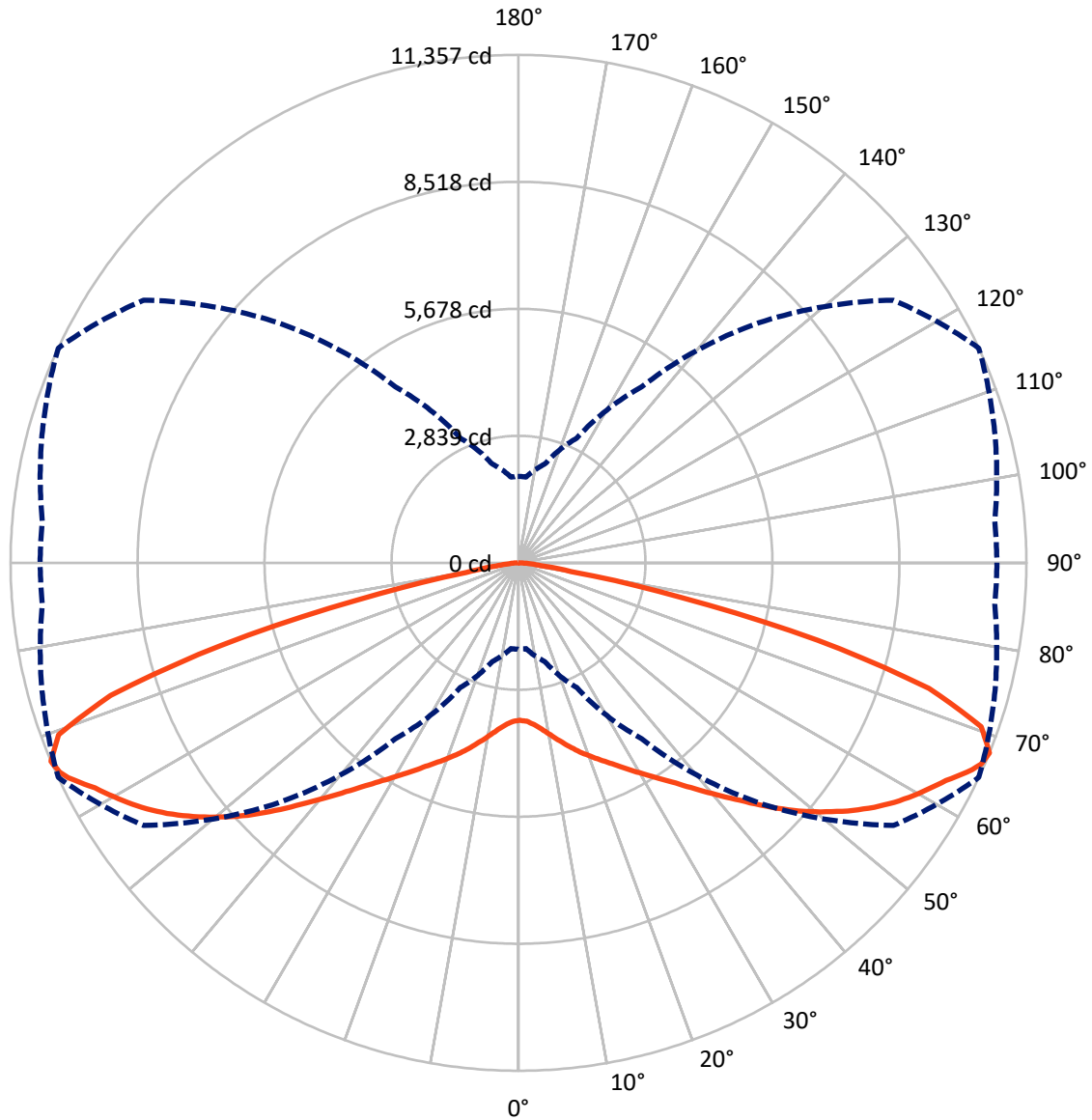
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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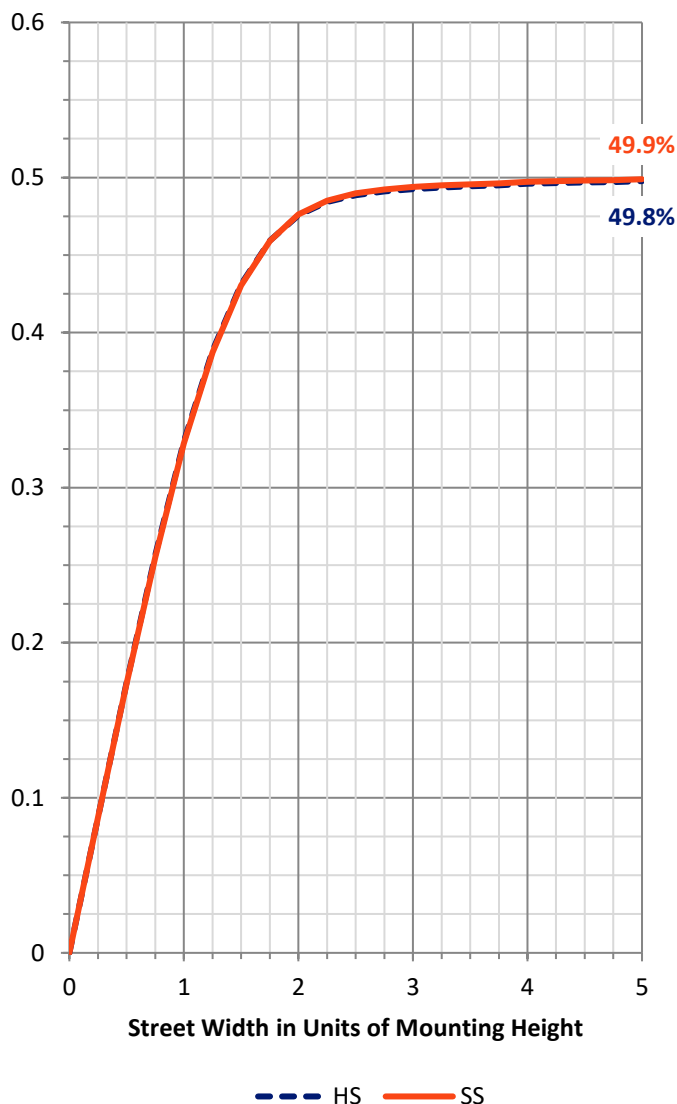
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16807.4	0.0	16807.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16807.4	0.0	16807.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	33614.7	0.0	33614.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.3	1.0
10°-20°	1162.2	3.5
20°-30°	2273.4	6.8
30°-40°	3866.7	11.5
40°-50°	6119.9	18.2
50°-60°	8114.8	24.1
60°-70°	7654.8	22.8
70°-80°	3784.1	11.3
80°-90°	291.6	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°	33614.7	100.0
0°-180°	33614.7	100.0

Coefficient of Utilization



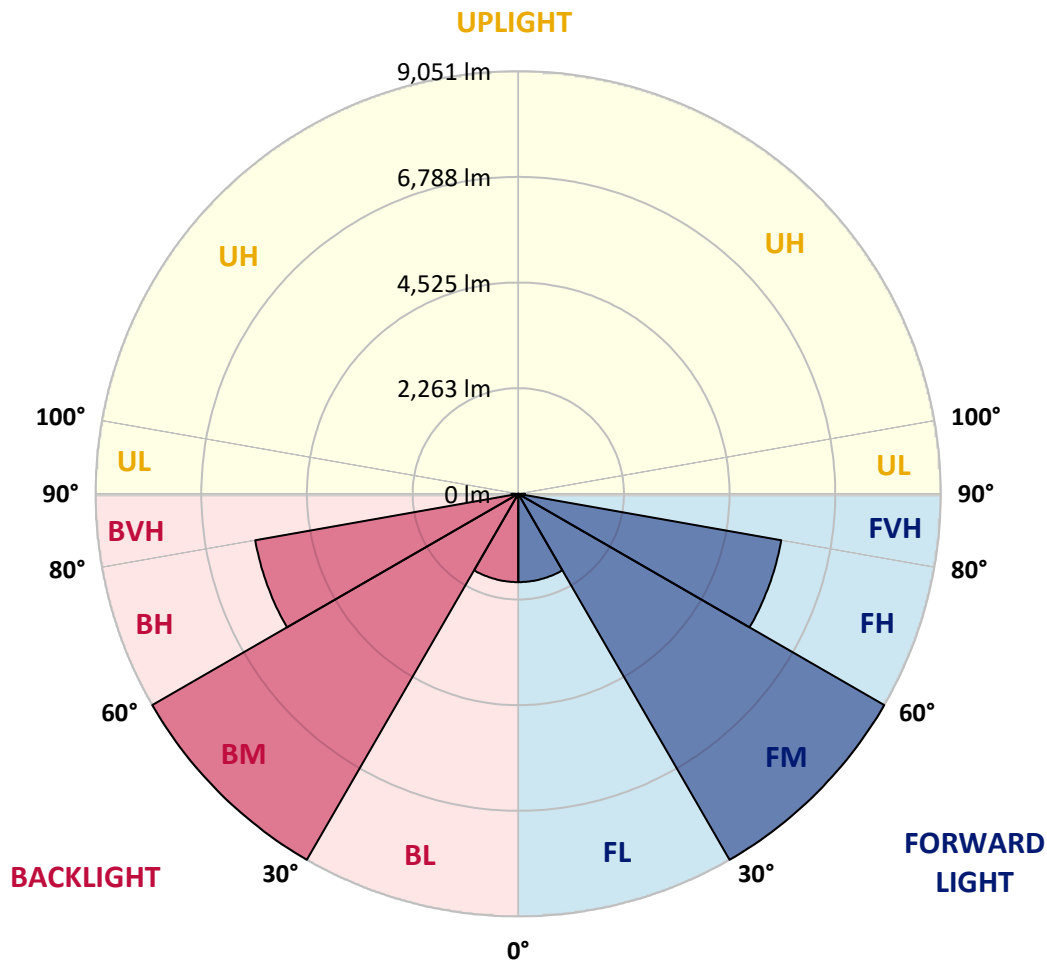
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.4	5.6			
FM (30°-60°)	9050.7	26.9			
FH (60°-80°)	5719.4	17.0			G3/7500
FVH (80°-90°)	145.8	0.4			G2/225
BL (0°-30°)	1891.4	5.6	B3/2500		
BM (30°-60°)	9050.7	26.9	B5		
BH (60°-80°)	5719.4	17.0	B5		G5
BVH (80°-90°)	145.8	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8	3520.8
2.5°	3502.8	3506.5	3510.1	3515.5	3522.6	3533.5	3540.7	3546.1	3560.5	3562.3	3560.5
5°	3490.2	3493.9	3502.8	3519.1	3542.5	3574.8	3600.1	3630.7	3654.1	3670.3	3666.8
7.5°	3488.5	3495.6	3510.1	3544.2	3589.3	3645.1	3702.8	3755.0	3800.0	3836.1	3830.6
10°	3517.2	3526.2	3549.7	3600.1	3670.3	3751.4	3832.4	3909.9	3974.7	4021.5	4037.7
12.5°	3565.8	3573.1	3616.3	3691.9	3792.8	3893.7	3985.5	4081.0	4171.0	4250.2	4250.2
15°	3650.5	3663.1	3717.1	3827.0	3951.3	4068.3	4162.0	4262.9	4360.1	4450.2	4477.1
17.5°	3767.6	3785.6	3866.7	4007.1	4165.6	4273.6	4361.9	4444.8	4529.4	4615.8	4628.4
20°	3927.9	3945.9	4054.0	4223.2	4410.5	4540.2	4599.6	4619.4	4660.8	4743.7	4754.5
22.5°	4145.8	4163.8	4284.5	4475.4	4684.3	4824.7	4850.0	4803.1	4792.4	4857.1	4864.3
25°	4392.5	4408.7	4547.4	4752.7	4968.8	5121.9	5114.7	4999.4	4934.6	4974.2	4985.0
27.5°	4669.8	4693.3	4833.7	5046.3	5280.4	5415.5	5393.8	5226.3	5087.7	5080.5	5084.1
30°	5024.6	5049.9	5183.1	5386.6	5617.1	5741.4	5696.4	5471.3	5256.9	5184.9	5184.9
32.5°	5399.2	5462.3	5597.4	5809.9	5989.9	6080.0	6011.6	5741.4	5456.8	5356.0	5350.6
35°	5887.3	5921.5	6054.8	6261.9	6397.0	6467.2	6335.8	6045.8	5718.0	5599.1	5582.9
37.5°	6364.5	6393.4	6548.3	6746.3	6910.2	6906.6	6728.3	6407.7	6042.2	5908.9	5898.1
40°	6852.6	6883.2	7059.7	7241.6	7405.5	7391.0	7175.0	6816.6	6427.6	6278.1	6306.9
42.5°	7275.8	7310.1	7510.0	7769.2	7916.9	7913.4	7663.0	7259.6	6854.4	6721.1	6746.3
45°	7661.3	7691.9	7924.2	8221.3	8437.4	8464.4	8190.7	7763.9	7347.9	7176.8	7184.0
47.5°	7933.2	7990.8	8233.9	8574.3	8867.8	8963.3	8694.9	8277.1	7798.1	7619.8	7630.6
50°	8140.3	8176.3	8441.0	8828.2	9199.2	9397.3	9181.2	8752.6	8248.4	8059.2	8084.4
52.5°	8165.5	8208.7	8496.9	8943.5	9418.9	9719.7	9613.5	9217.3	8707.5	8513.1	8567.1
55°	7960.1	7985.4	8329.3	8871.5	9505.4	9959.2	9986.3	9649.5	9145.2	8997.5	9033.5
57.5°	7374.9	7439.7	7875.5	8534.7	9386.6	10087.1	10265.4	10042.0	9588.2	9442.3	9500.0
60°	6415.0	6479.8	6917.5	7753.1	8938.1	10027.7	10495.9	10389.6	9989.8	9872.8	9903.4
62.5°	5026.4	5021.0	5563.1	6587.9	8046.6	9735.9	10667.0	10724.6	10386.1	10238.4	10285.2
65°	3257.9	3274.1	3798.2	4902.2	6701.3	8993.9	10704.8	11151.5	10775.1	10551.8	10586.0
66°	2620.4	2669.0	3113.8	4131.4	6015.2	8507.6	10591.4	11277.6	10893.9	10623.8	10640.0
67.5°	1934.2	1925.2	2290.8	3076.0	4803.1	7583.8	10236.6	11356.8	11029.0	10688.6	10695.8
70°	1104.0	1102.2	1231.8	1689.3	2823.9	5339.8	8628.3	10976.7	11302.7	10922.7	10902.9
72.5°	806.9	801.4	819.5	932.9	1377.7	2696.0	5952.1	9593.6	11162.3	10884.9	10829.1
75°	677.2	673.6	669.9	684.3	772.6	1221.0	3158.9	6901.2	9685.5	10216.8	10159.1
77.5°	552.9	552.9	554.7	551.1	554.7	642.9	1309.3	3699.1	5898.1	6584.3	6744.6
80°	432.2	430.4	461.0	448.4	419.7	412.4	579.9	1190.4	1957.6	1946.8	1606.5
82.5°	318.7	297.1	351.2	342.2	309.7	262.9	338.6	507.9	653.7	425.0	315.2
85°	201.7	199.9	248.5	226.9	189.1	124.3	162.1	217.9	270.1	163.9	133.3
87.5°	36.0	34.2	79.2	57.6	57.6	36.0	45.0	59.5	88.2	61.2	45.0
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)