

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: P529784

Luminaire Tested: **GALN-SA5A-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17251 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

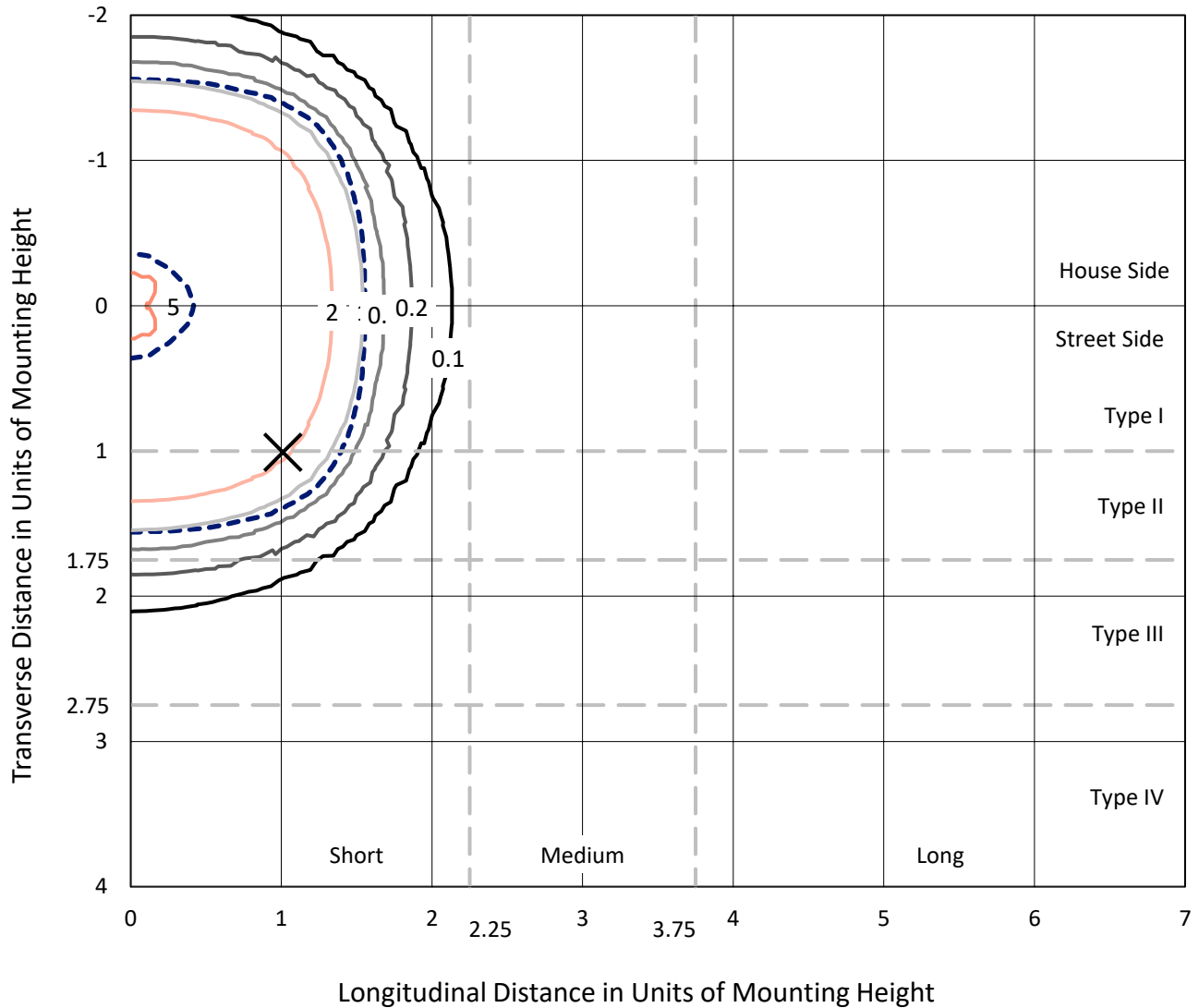
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

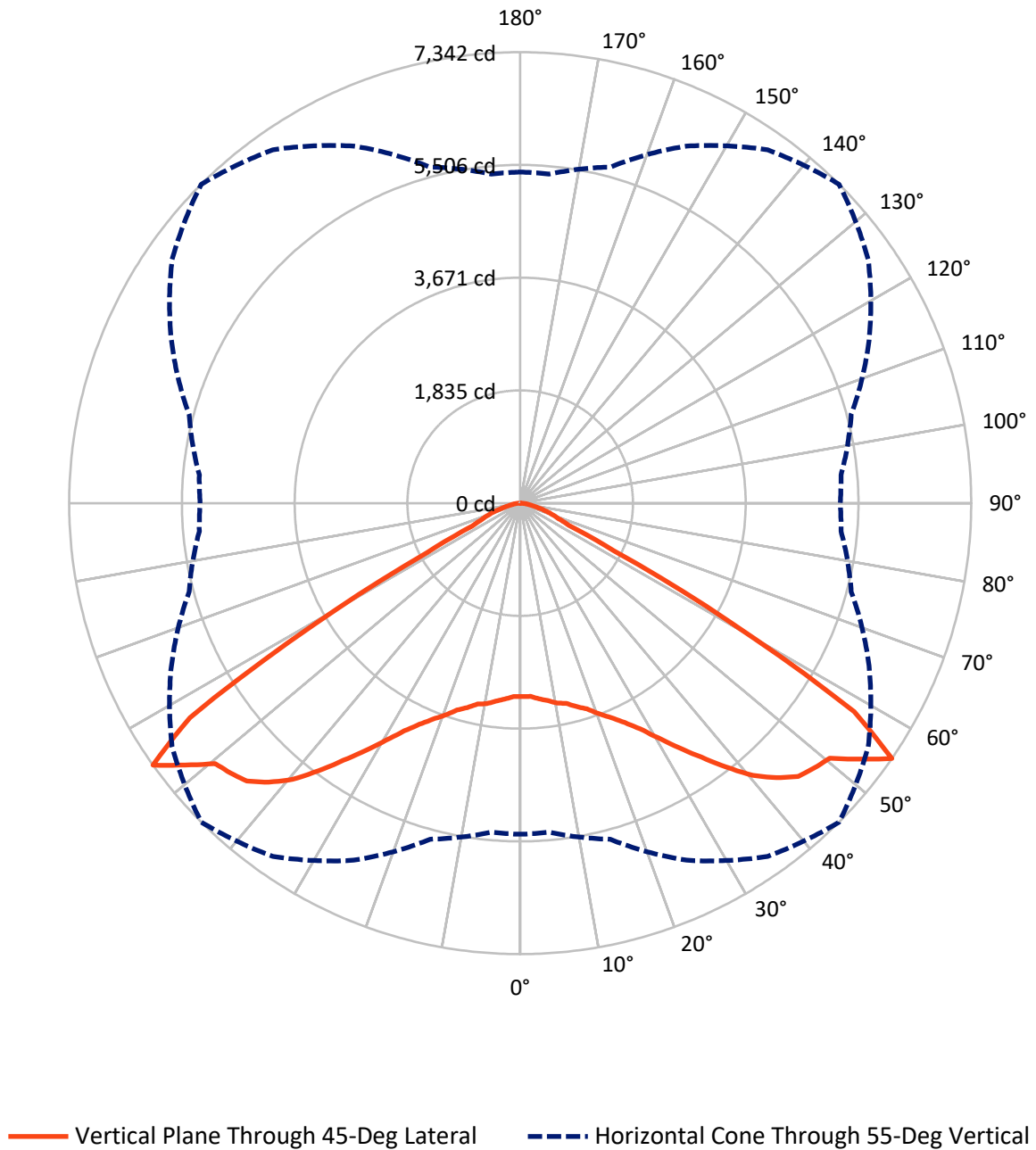
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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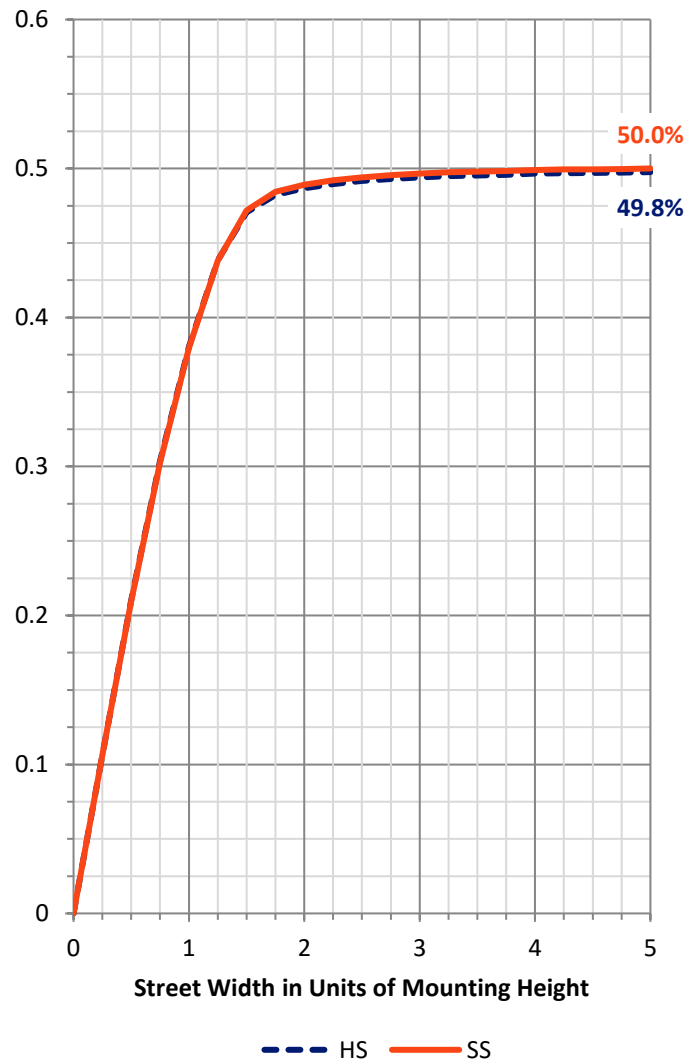
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8625.5	0.0	8625.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8625.5	0.0	8625.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17251.0	0.0	17251.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	1.8
10°-20°	975.0	5.7
20°-30°	1818.0	10.5
30°-40°	3043.9	17.6
40°-50°	4736.6	27.5
50°-60°	4918.0	28.5
60°-70°	1043.0	6.0
70°-80°	343.5	2.0
80°-90°	65.4	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°	17251.0	100.0
0°-180°	17251.0	100.0

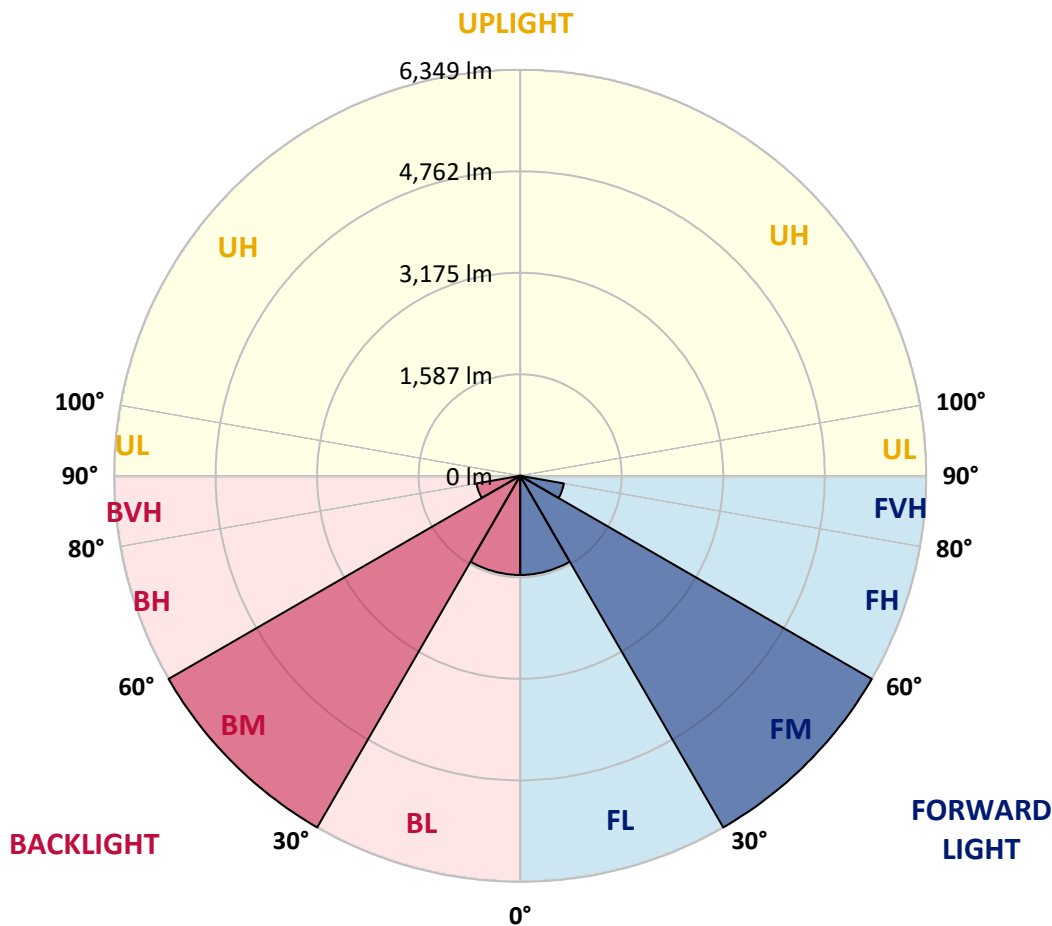


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.3	9.0			
FM (30°-60°)	6349.2	36.8			
FH (60°-80°)	693.2	4.0			G1/1800
FVH (80°-90°)	32.7	0.2			G1/100
BL (0°-30°)	1550.3	9.0	B3/2500		
BM (30°-60°)	6349.2	36.8	B4/8500		
BH (60°-80°)	693.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	32.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	3187.3	3172.7	3147.7	3166.5	3181.0	3149.8	3162.3	3168.5	3164.4	3147.7	3153.9
5°	3233.2	3224.8	3204.0	3218.6	3199.8	3199.8	3187.3	3170.6	3195.6	3191.5	3201.9
7.5°	3233.2	3222.7	3264.4	3237.3	3245.7	3245.7	3224.8	3208.1	3220.7	3201.9	3191.5
10°	3297.8	3312.4	3293.6	3299.9	3295.7	3310.3	3279.0	3268.6	3258.2	3251.9	3239.4
12.5°	3374.9	3364.5	3370.7	3366.6	3381.2	3343.6	3324.9	3301.9	3320.7	3293.6	3312.4
15°	3437.4	3431.2	3437.4	3454.1	3439.5	3437.4	3404.1	3381.2	3352.0	3358.2	3329.0
17.5°	3522.9	3516.7	3518.7	3533.3	3531.3	3520.8	3495.8	3452.0	3441.6	3424.9	3406.2
20°	3650.1	3639.6	3635.5	3641.7	3652.2	3660.5	3610.5	3593.8	3558.3	3531.3	3500.0
22.5°	3758.5	3754.3	3771.0	3743.9	3766.8	3791.8	3743.9	3735.5	3648.0	3633.4	3600.0
25°	3908.6	3902.3	3891.9	3931.5	3958.6	3956.5	3910.6	3864.8	3798.1	3781.4	3781.4
27.5°	4067.0	4031.5	4085.7	4096.2	4144.1	4158.7	4119.1	4052.4	3989.9	3954.4	3962.8
30°	4265.0	4231.7	4244.2	4319.2	4381.8	4436.0	4335.9	4237.9	4150.4	4087.8	4077.4
32.5°	4463.1	4429.7	4467.2	4540.2	4665.3	4746.6	4648.6	4477.6	4375.5	4283.8	4302.5
35°	4623.6	4648.6	4709.0	4819.5	4948.8	5080.1	4923.7	4792.4	4646.5	4544.3	4558.9
37.5°	4882.0	4959.2	5007.1	5134.3	5317.7	5453.2	5290.6	5119.7	4963.3	4829.9	4784.1
40°	5219.7	5271.9	5326.1	5476.1	5692.9	5828.4	5674.2	5451.1	5296.9	5159.3	5153.0
42.5°	5590.8	5640.8	5697.1	5880.6	6009.8	6111.9	5970.2	5851.4	5680.4	5572.0	5565.8
45°	6022.3	5986.9	6049.4	6170.3	6278.7	6345.4	6253.7	6195.3	6072.3	5972.3	5961.9
47.5°	6310.0	6278.7	6391.3	6499.7	6516.3	6443.4	6462.1	6516.3	6387.1	6222.4	6274.5
50°	6476.7	6476.7	6551.8	6651.8	6620.6	6526.8	6674.8	6678.9	6549.7	6403.8	6403.8
52.5°	6187.0	6251.6	6464.2	6791.5	6895.7	6922.8	6889.5	6747.7	6410.0	6111.9	6097.3
55°	5390.7	5376.1	5663.8	6414.2	7020.8	7341.8	6916.6	6264.1	5578.3	5242.7	5209.3
57.5°	3506.2	3522.9	3952.3	4717.4	5811.8	6410.0	5692.9	4775.7	3952.3	3489.6	3533.3
60°	1578.0	1634.3	1894.9	2466.0	3406.2	3894.0	3414.5	2591.1	1988.7	1726.0	1748.9
62.5°	906.8	917.2	927.6	1100.6	1450.9	1715.6	1507.1	1163.2	1025.6	979.7	979.7
65°	765.0	758.8	760.9	775.5	813.0	867.2	844.2	813.0	817.1	813.0	806.7
67.5°	650.4	658.7	652.5	662.9	665.0	673.3	687.9	700.4	702.5	706.7	702.5
70°	533.6	535.7	539.9	548.2	550.3	556.6	577.4	587.8	594.1	594.1	602.4
72.5°	408.6	406.5	410.7	419.0	429.4	431.5	450.3	464.9	473.2	462.8	464.9
75°	268.9	271.0	277.2	283.5	298.1	312.7	318.9	333.5	335.6	339.8	329.4
77.5°	160.5	164.7	170.9	183.4	195.9	208.5	223.0	233.5	237.6	233.5	221.0
80°	104.2	104.2	112.6	123.0	137.6	148.0	156.3	164.7	170.9	164.7	160.5
82.5°	64.6	64.6	75.0	87.6	98.0	104.2	116.7	127.2	133.4	129.2	123.0
85°	33.4	35.4	43.8	54.2	62.5	66.7	64.6	58.4	52.1	50.0	45.9
87.5°	10.4	10.4	12.5	12.5	10.4	10.4	12.5	10.4	12.5	12.5	12.5
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)