

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: P530483

Luminaire Tested: **GALN-SA5D-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19444 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

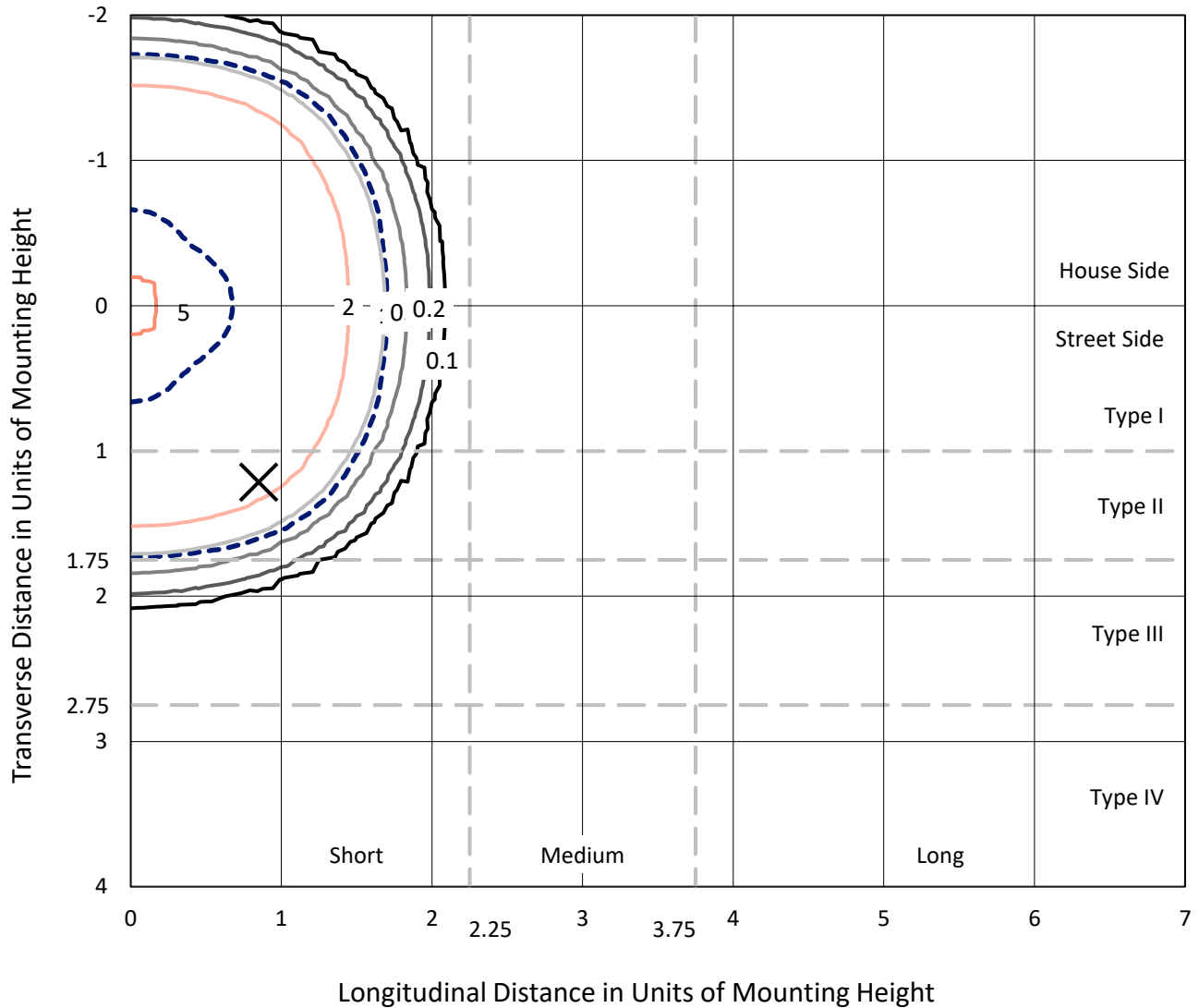
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530483
 CATALOG NUMBER: GALN-SA5D-727-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

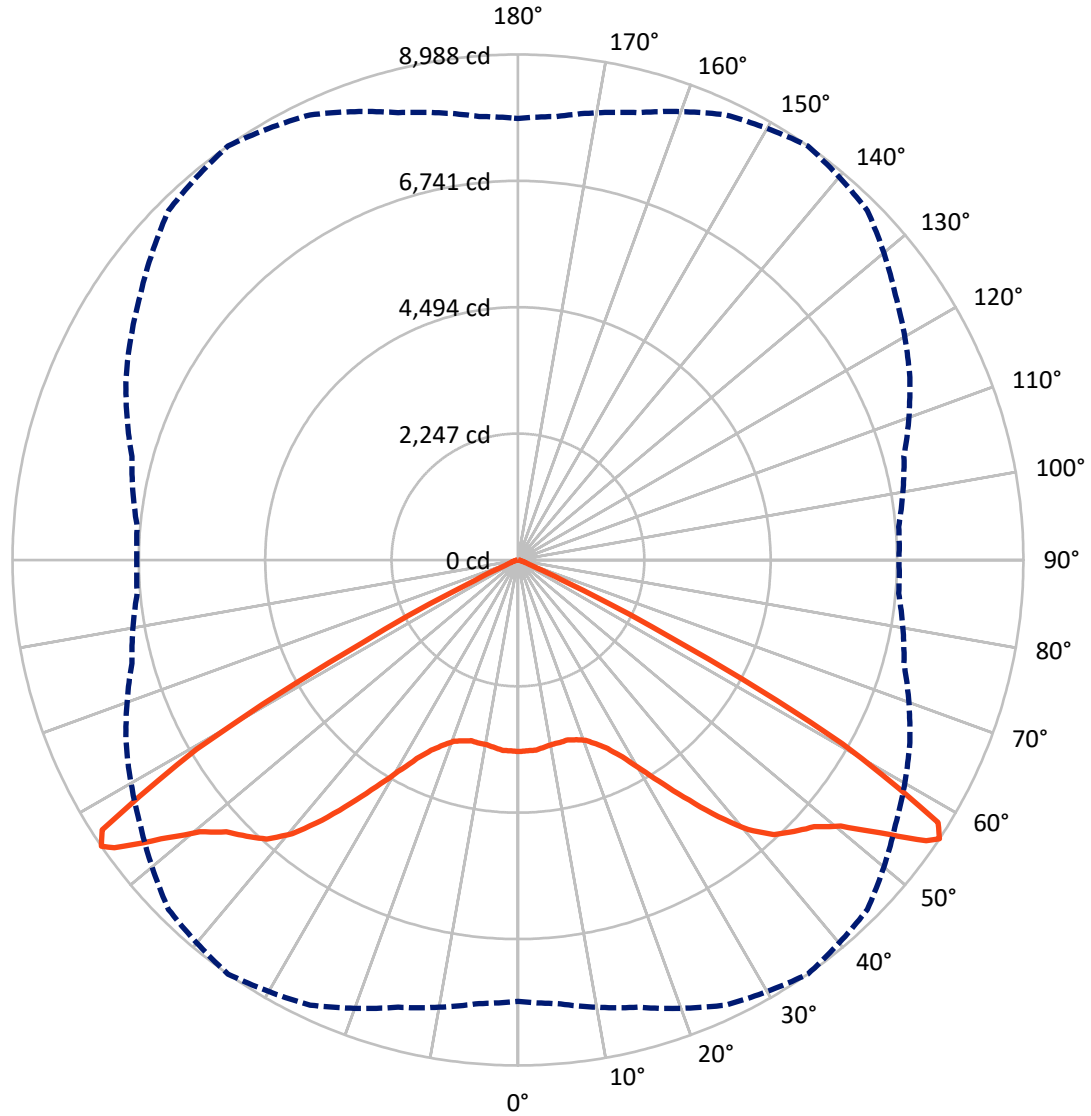
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

REPORT NUMBER: P530483
CATALOG NUMBER: GALN-SA5D-727-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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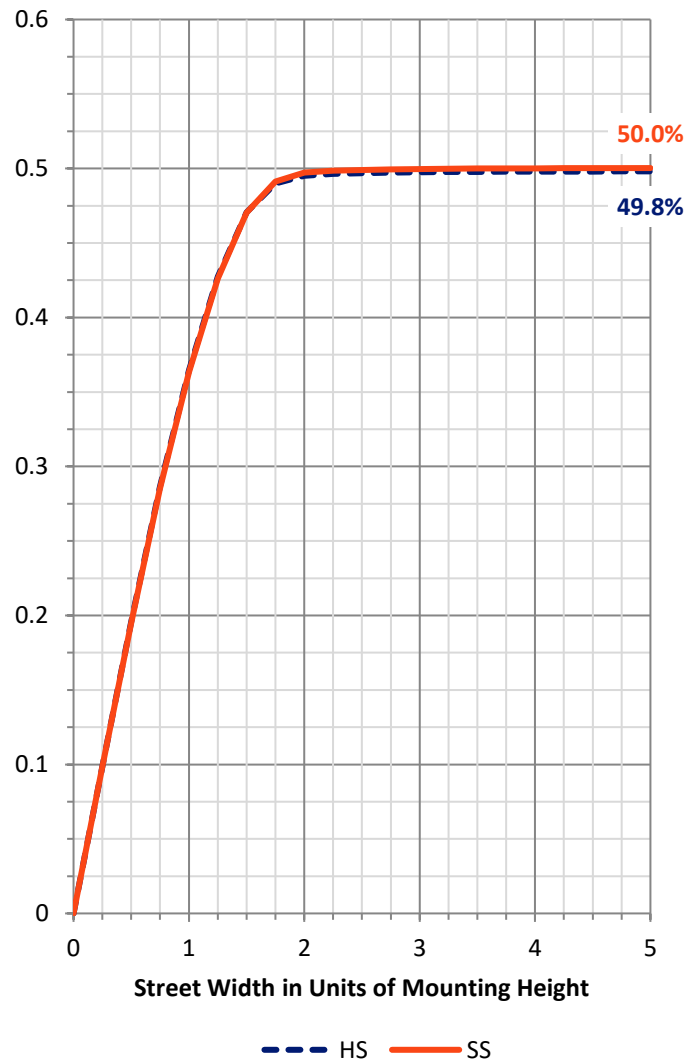
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9722.0	0.0	9722.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9722.0	0.0	9722.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19444.0	0.0	19444.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.2	1.6
10°-20°	934.9	4.8
20°-30°	1692.9	8.7
30°-40°	3139.2	16.1
40°-50°	5152.8	26.5
50°-60°	6638.3	34.1
60°-70°	1463.0	7.5
70°-80°	84.9	0.4
80°-90°	17.9	0.1
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°	19444.0	100.0
0°-180°	19444.0	100.0



REPORT NUMBER: P530483

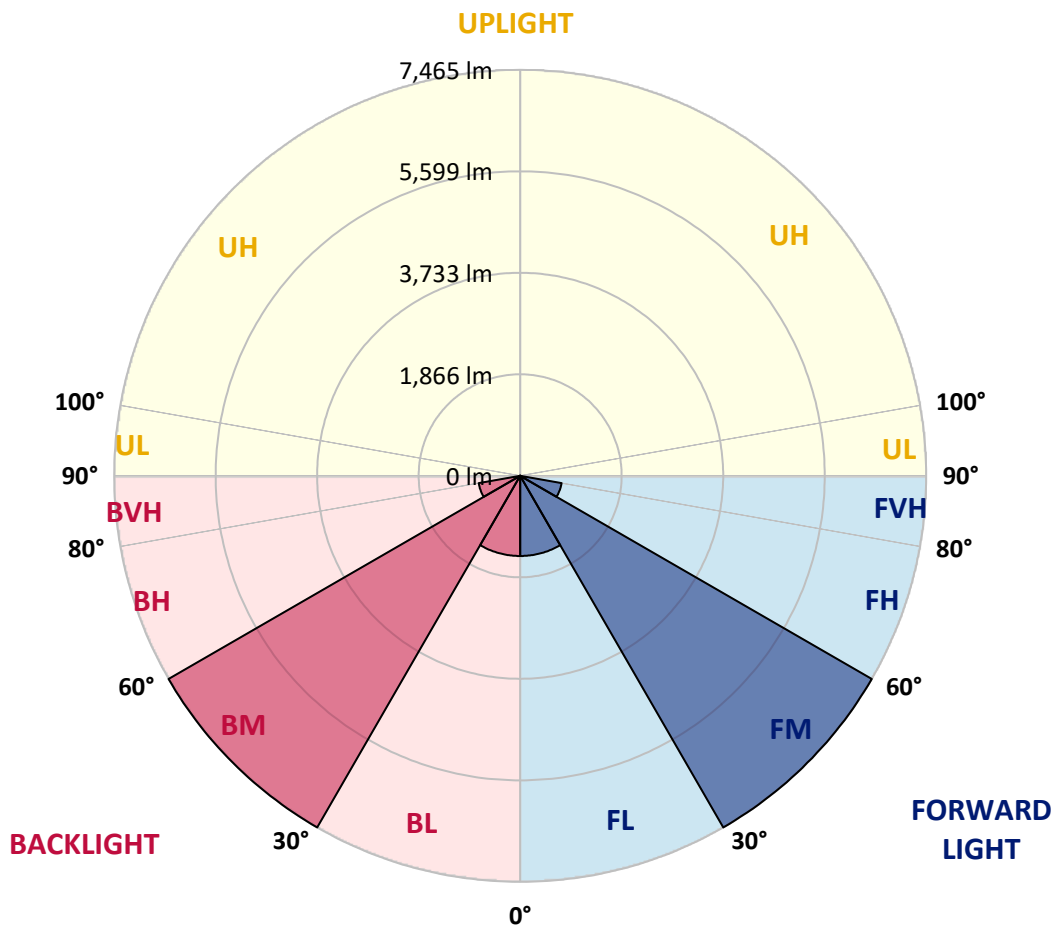
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.0	7.6			
FM (30°-60°)	7465.2	38.4			
FH (60°-80°)	773.9	4.0			G1/1800
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	1474.0	7.6	B3/2500		
BM (30°-60°)	7465.2	38.4	B4/8500		
BH (60°-80°)	773.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.9	0.0			G0/10
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°	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0
2.5°	3414.1	3414.1	3417.6	3421.1	3396.4	3385.9	3389.4	3382.3	3378.8	3389.4	3389.4
5°	3403.5	3403.5	3392.9	3396.4	3396.4	3364.7	3364.7	3371.8	3371.8	3350.6	3343.6
7.5°	3375.3	3368.3	3354.2	3371.8	3361.2	3361.2	3336.5	3318.9	3311.9	3326.0	3311.9
10°	3315.4	3318.9	3333.0	3340.1	3333.0	3354.2	3311.9	3287.2	3262.6	3252.0	3252.0
12.5°	3287.2	3308.4	3287.2	3304.8	3329.5	3311.9	3287.2	3269.6	3234.4	3220.3	3220.3
15°	3283.7	3297.8	3304.8	3329.5	3318.9	3326.0	3276.6	3255.5	3202.7	3178.0	3167.4
17.5°	3280.2	3297.8	3308.4	3354.2	3361.2	3364.7	3326.0	3262.6	3216.8	3192.1	3167.4
20°	3318.9	3326.0	3347.1	3392.9	3421.1	3470.4	3400.0	3333.0	3234.4	3206.2	3195.6
22.5°	3368.3	3403.5	3424.6	3473.9	3547.9	3590.2	3498.6	3414.1	3311.9	3276.6	3234.4
25°	3526.8	3519.8	3555.0	3657.2	3717.1	3748.8	3674.8	3551.5	3417.6	3375.3	3382.3
27.5°	3724.1	3731.1	3762.9	3875.6	3963.7	4013.0	3924.9	3762.9	3632.5	3562.0	3555.0
30°	3981.3	3974.3	4009.5	4161.0	4319.5	4393.5	4238.5	4048.2	3921.4	3829.8	3850.9
32.5°	4252.6	4256.1	4354.8	4492.2	4749.4	4893.8	4643.7	4411.1	4220.9	4157.5	4125.8
35°	4654.2	4671.9	4749.4	4960.8	5246.2	5432.9	5158.1	4879.7	4661.3	4545.0	4559.1
37.5°	5151.0	5133.4	5263.8	5492.8	5792.3	5929.7	5697.1	5380.0	5158.1	5080.6	5129.9
40°	5679.5	5697.1	5764.1	5972.0	6306.7	6398.3	6053.0	5880.3	5686.6	5647.8	5707.7
42.5°	6208.0	6197.4	6246.8	6433.5	6676.6	6613.2	6408.8	6306.7	6169.3	6091.7	6172.8
45°	6595.6	6578.0	6669.6	6796.4	6884.5	6764.7	6673.1	6637.9	6567.4	6482.8	6556.8
47.5°	6972.6	6958.5	7046.6	7081.8	7088.8	6930.3	6947.9	7011.3	6835.2	6659.0	6743.5
50°	7293.2	7268.5	7377.7	7455.2	7437.6	7184.0	7247.4	7184.0	6909.1	6701.3	6669.6
52.5°	7828.7	7839.3	7955.6	8096.5	8054.2	7842.8	7751.2	7462.3	7110.0	6923.2	6814.0
55°	8167.0	8114.1	8314.9	8762.4	8811.7	8593.3	8188.1	7761.8	7233.3	7004.3	6976.1
56°	7849.9	7916.8	8233.9	8734.2	8987.9	8787.0	8198.7	7687.8	7106.4	6796.4	6775.3
57.5°	7043.0	7007.8	7437.6	8121.1	8811.7	8727.2	7909.8	7159.3	6482.8	6134.0	6091.7
60°	4383.0	4485.1	4862.1	5707.7	6630.8	6673.1	5862.7	5218.0	4428.8	4118.7	4192.7
62.5°	1715.8	1627.8	1863.8	2494.5	3128.7	3269.6	2963.1	2462.8	2022.4	1715.8	1694.7
65°	398.1	387.6	436.9	602.5	842.1	975.9	926.6	665.9	489.7	465.1	429.8
67.5°	225.5	225.5	214.9	214.9	236.1	250.2	239.6	236.1	246.6	257.2	253.7
70°	158.5	155.0	148.0	151.5	144.5	144.5	155.0	172.6	186.7	186.7	190.3
72.5°	95.1	95.1	95.1	105.7	105.7	105.7	116.3	130.4	133.9	130.4	126.8
75°	42.3	42.3	49.3	59.9	66.9	70.5	81.0	88.1	95.1	88.1	81.0
77.5°	10.6	10.6	17.6	24.7	31.7	38.8	52.8	63.4	66.9	63.4	52.8
80°	3.5	3.5	7.0	17.6	31.7	38.8	52.8	56.4	59.9	52.8	42.3
82.5°	3.5	3.5	7.0	17.6	24.7	31.7	42.3	49.3	52.8	45.8	42.3
85°	0.0	3.5	7.0	14.1	21.1	28.2	28.2	21.1	17.6	10.6	14.1
87.5°	0.0	0.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)