

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: P530015

Luminaire Tested: **GALN-SA5B-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530015
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-SA5B-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 14302 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

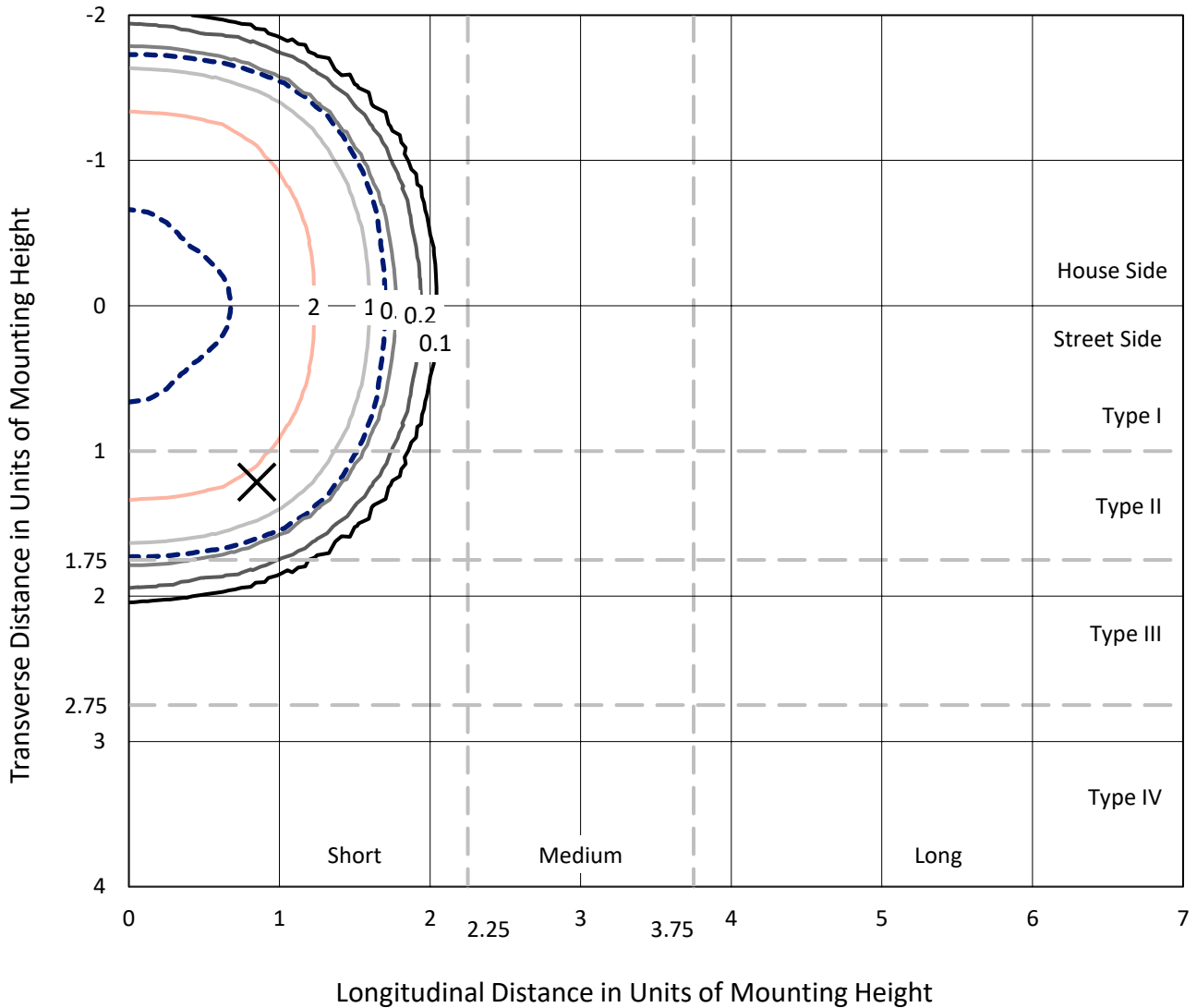
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

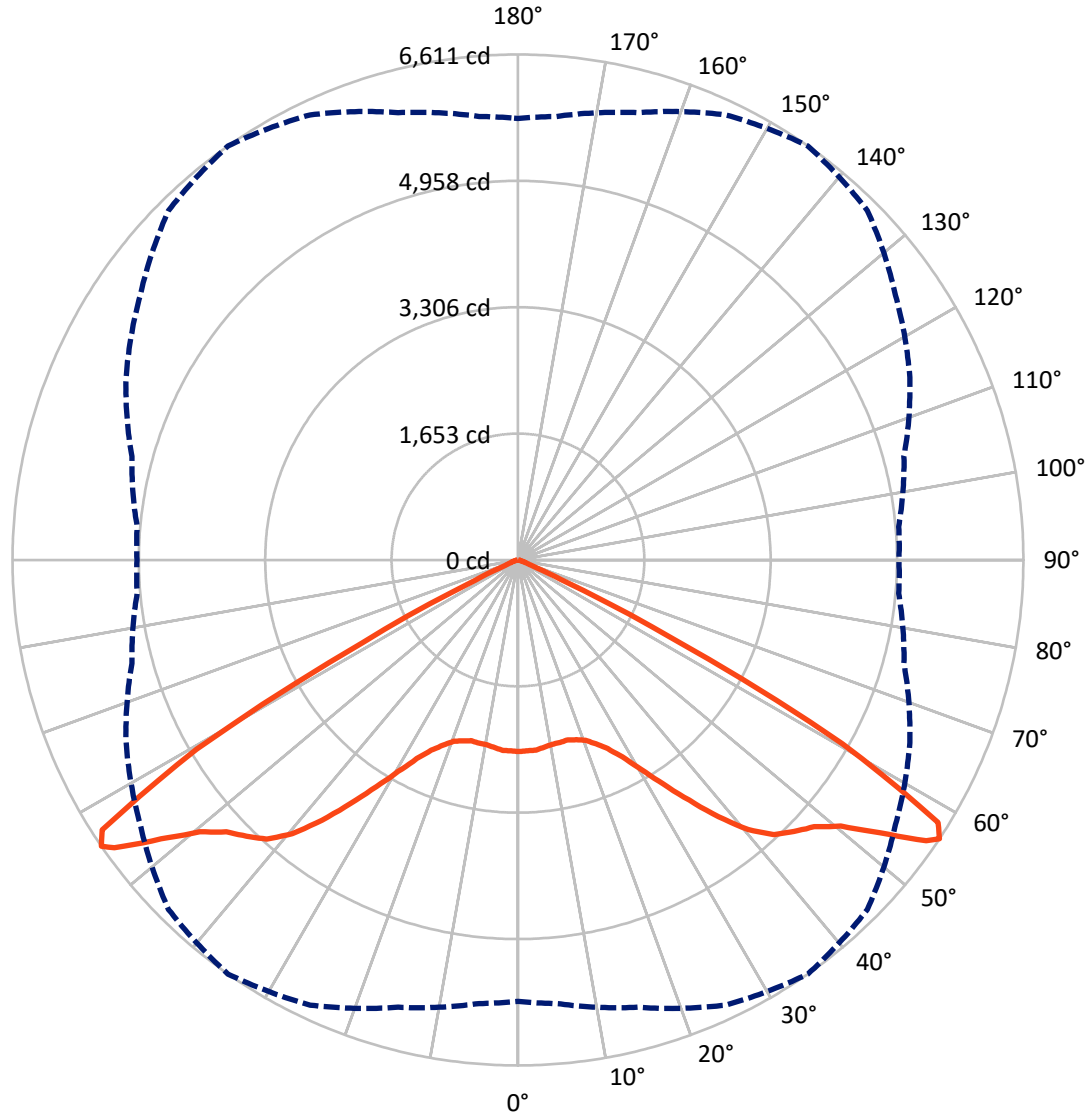
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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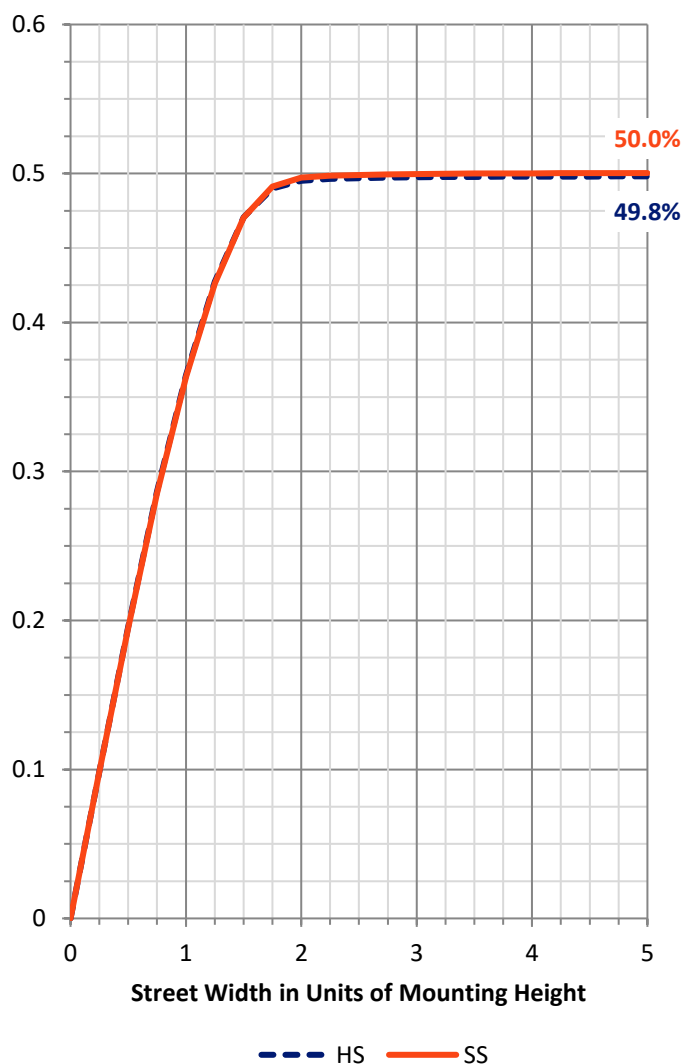
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7151.0	0.0	7151.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7151.0	0.0	7151.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14302.0	0.0	14302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	1.6
10°-20°	687.6	4.8
20°-30°	1245.2	8.7
30°-40°	2309.0	16.1
40°-50°	3790.1	26.5
50°-60°	4882.8	34.1
60°-70°	1076.1	7.5
70°-80°	62.4	0.4
80°-90°	13.1	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°	14302.0	100.0
0°-180°	14302.0	100.0

Coefficient of Utilization



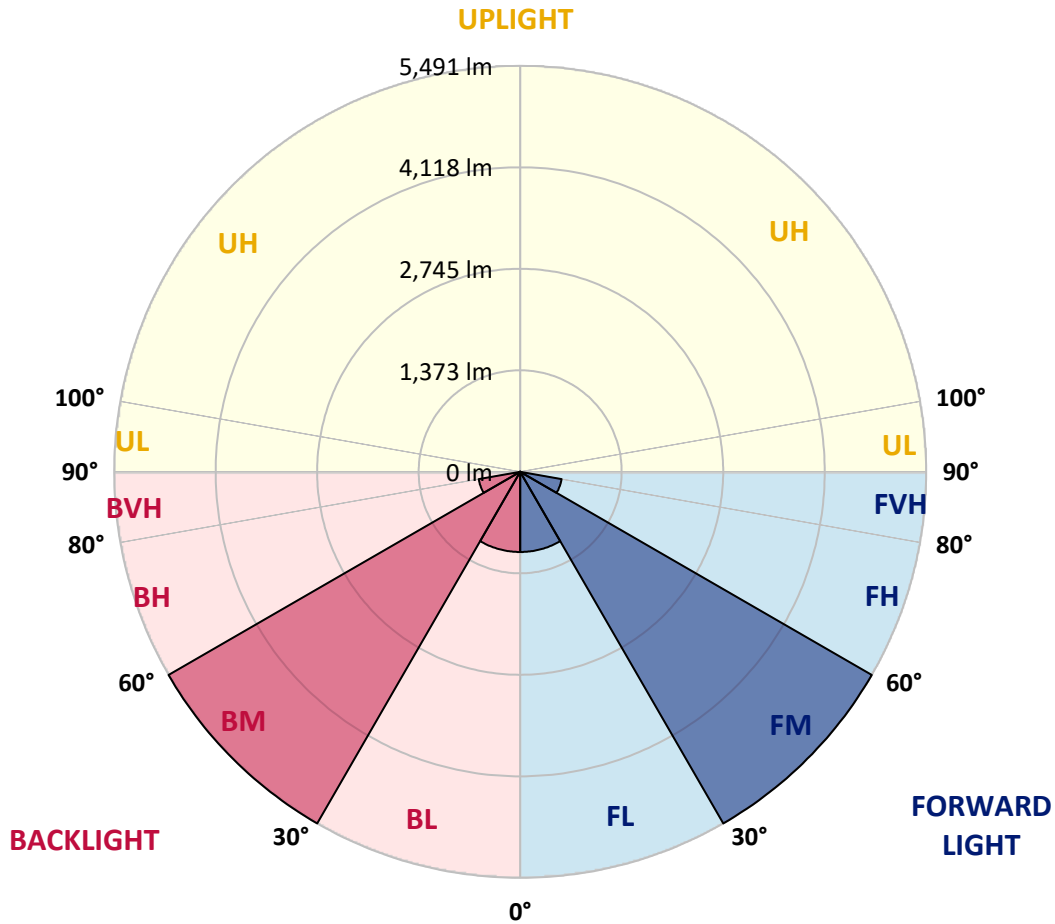
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1084.2	7.6			
FM (30°-60°)	5491.0	38.4			
FH (60°-80°)	569.3	4.0			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	1084.2	7.6	B3/2500		
BM (30°-60°)	5491.0	38.4	B4/8500		
BH (60°-80°)	569.3	4.0	B2/1000		G0/660
BVH (80°-90°)	6.6	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0
2.5°	2511.2	2511.2	2513.8	2516.4	2498.2	2490.5	2493.1	2487.9	2485.3	2493.1	2493.1
5°	2503.4	2503.4	2495.7	2498.2	2498.2	2474.9	2474.9	2480.1	2480.1	2464.6	2459.4
7.5°	2482.7	2477.5	2467.1	2480.1	2472.3	2472.3	2454.2	2441.2	2436.0	2446.4	2436.0
10°	2438.6	2441.2	2451.6	2456.8	2451.6	2467.1	2436.0	2417.9	2399.8	2392.0	2392.0
12.5°	2417.9	2433.5	2417.9	2430.9	2449.0	2436.0	2417.9	2404.9	2379.0	2368.7	2368.7
15°	2415.3	2425.7	2430.9	2449.0	2441.2	2446.4	2410.1	2394.6	2355.7	2337.6	2329.8
17.5°	2412.7	2425.7	2433.5	2467.1	2472.3	2474.9	2446.4	2399.8	2366.1	2347.9	2329.8
20°	2441.2	2446.4	2462.0	2495.7	2516.4	2552.7	2500.8	2451.6	2379.0	2358.3	2350.5
22.5°	2477.5	2503.4	2519.0	2555.3	2609.7	2640.8	2573.4	2511.2	2436.0	2410.1	2379.0
25°	2594.1	2588.9	2614.9	2690.0	2734.1	2757.4	2703.0	2612.3	2513.8	2482.7	2487.9
27.5°	2739.3	2744.4	2767.8	2850.7	2915.5	2951.8	2887.0	2767.8	2671.9	2620.0	2614.9
30°	2928.4	2923.3	2949.2	3060.6	3177.2	3231.6	3117.6	2977.7	2884.4	2817.0	2832.6
32.5°	3128.0	3130.6	3203.1	3304.2	3493.4	3599.6	3415.6	3244.6	3104.7	3058.0	3034.7
35°	3423.4	3436.4	3493.4	3648.9	3858.8	3996.2	3794.0	3589.3	3428.6	3343.1	3353.5
37.5°	3788.8	3775.9	3871.8	4040.2	4260.5	4361.6	4190.5	3957.3	3794.0	3737.0	3773.3
40°	4177.6	4190.5	4239.8	4392.7	4638.9	4706.2	4452.3	4325.3	4182.7	4154.2	4198.3
42.5°	4566.3	4558.5	4594.8	4732.1	4911.0	4864.3	4714.0	4638.9	4537.8	4480.8	4540.4
45°	4851.4	4838.4	4905.8	4999.1	5063.9	4975.8	4908.4	4882.5	4830.6	4768.4	4822.9
47.5°	5128.7	5118.3	5183.1	5209.0	5214.2	5097.6	5110.5	5157.2	5027.6	4898.0	4960.2
50°	5364.5	5346.3	5426.7	5483.7	5470.7	5284.1	5330.8	5284.1	5082.0	4929.1	4905.8
52.5°	5758.4	5766.2	5851.7	5955.4	5924.3	5768.8	5701.4	5488.9	5229.7	5092.4	5012.0
55°	6007.2	5968.3	6116.0	6445.2	6481.4	6320.8	6022.7	5709.2	5320.4	5152.0	5131.2
56°	5773.9	5823.2	6056.4	6424.4	6611.0	6463.3	6030.5	5654.7	5227.1	4999.1	4983.5
57.5°	5180.5	5154.6	5470.7	5973.5	6481.4	6419.2	5818.0	5266.0	4768.4	4511.9	4480.8
60°	3223.9	3299.0	3576.3	4198.3	4877.3	4908.4	4312.3	3838.1	3257.6	3029.5	3083.9
62.5°	1262.1	1197.3	1370.9	1834.8	2301.3	2404.9	2179.5	1811.5	1487.5	1262.1	1246.5
65°	292.8	285.1	321.4	443.2	619.4	717.9	681.6	489.8	360.2	342.1	316.2
67.5°	165.9	165.9	158.1	158.1	173.6	184.0	176.2	173.6	181.4	189.2	186.6
70°	116.6	114.0	108.8	111.4	106.3	106.3	114.0	127.0	137.4	137.4	139.9
72.5°	70.0	70.0	70.0	77.7	77.7	77.7	85.5	95.9	98.5	95.9	93.3
75°	31.1	31.1	36.3	44.1	49.2	51.8	59.6	64.8	70.0	64.8	59.6
77.5°	7.8	7.8	13.0	18.1	23.3	28.5	38.9	46.6	49.2	46.6	38.9
80°	2.6	2.6	5.2	13.0	23.3	28.5	38.9	41.5	44.1	38.9	31.1
82.5°	2.6	2.6	5.2	13.0	18.1	23.3	31.1	36.3	38.9	33.7	31.1
85°	0.0	2.6	5.2	10.4	15.5	20.7	20.7	15.5	13.0	7.8	10.4
87.5°	0.0	0.0	2.6	2.6	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)