

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: P453443

Luminaire Tested: **GALN-SA4C-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453443
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-SA4C-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23997 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

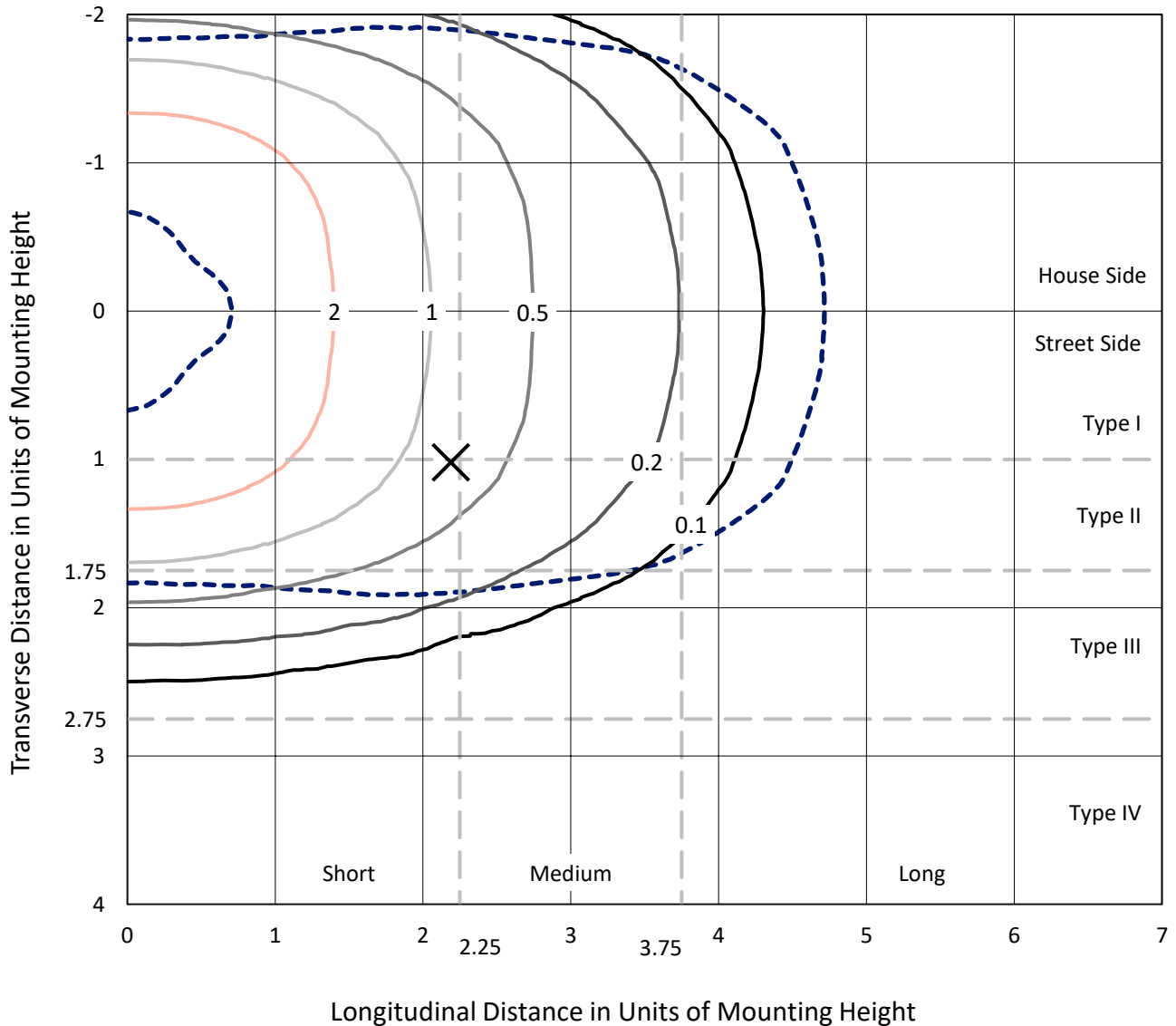
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453443
 CATALOG NUMBER: GALN-SA4C-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

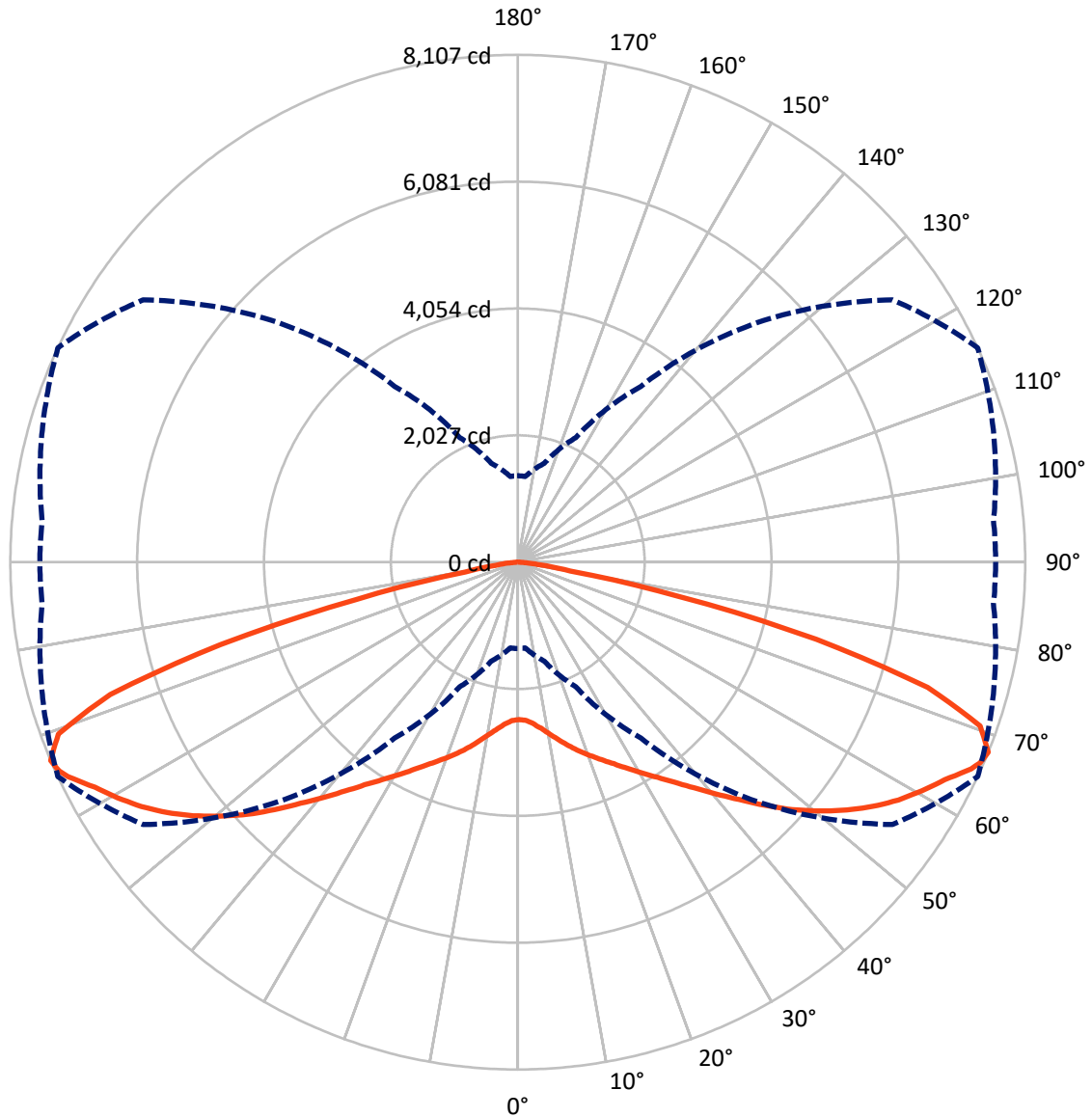
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P453443
CATALOG NUMBER: GALN-SA4C-727-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453443

CATALOG NUMBER: GALN-SA4C-727-U-RW

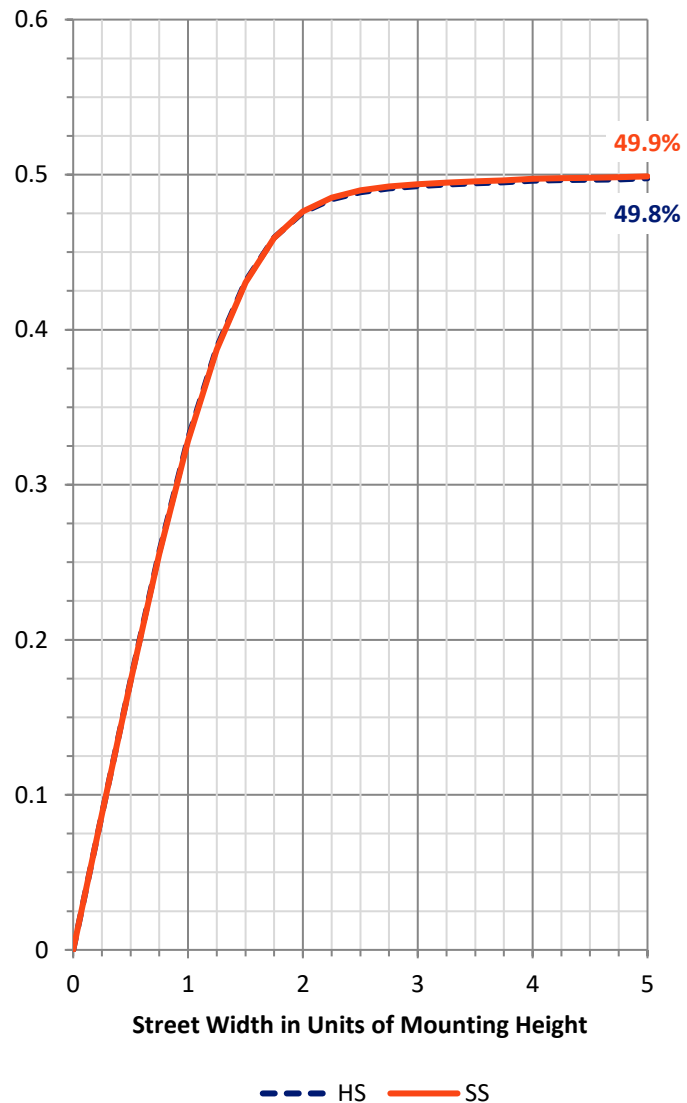
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11998.5	0.0	11998.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11998.5	0.0	11998.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23997.0	0.0	23997.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.0
10°-20°	829.7	3.5
20°-30°	1622.9	6.8
30°-40°	2760.4	11.5
40°-50°	4368.9	18.2
50°-60°	5793.0	24.1
60°-70°	5464.6	22.8
70°-80°	2701.4	11.3
80°-90°	208.2	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°	23997.0	100.0
0°-180°	23997.0	100.0



REPORT NUMBER: P453443

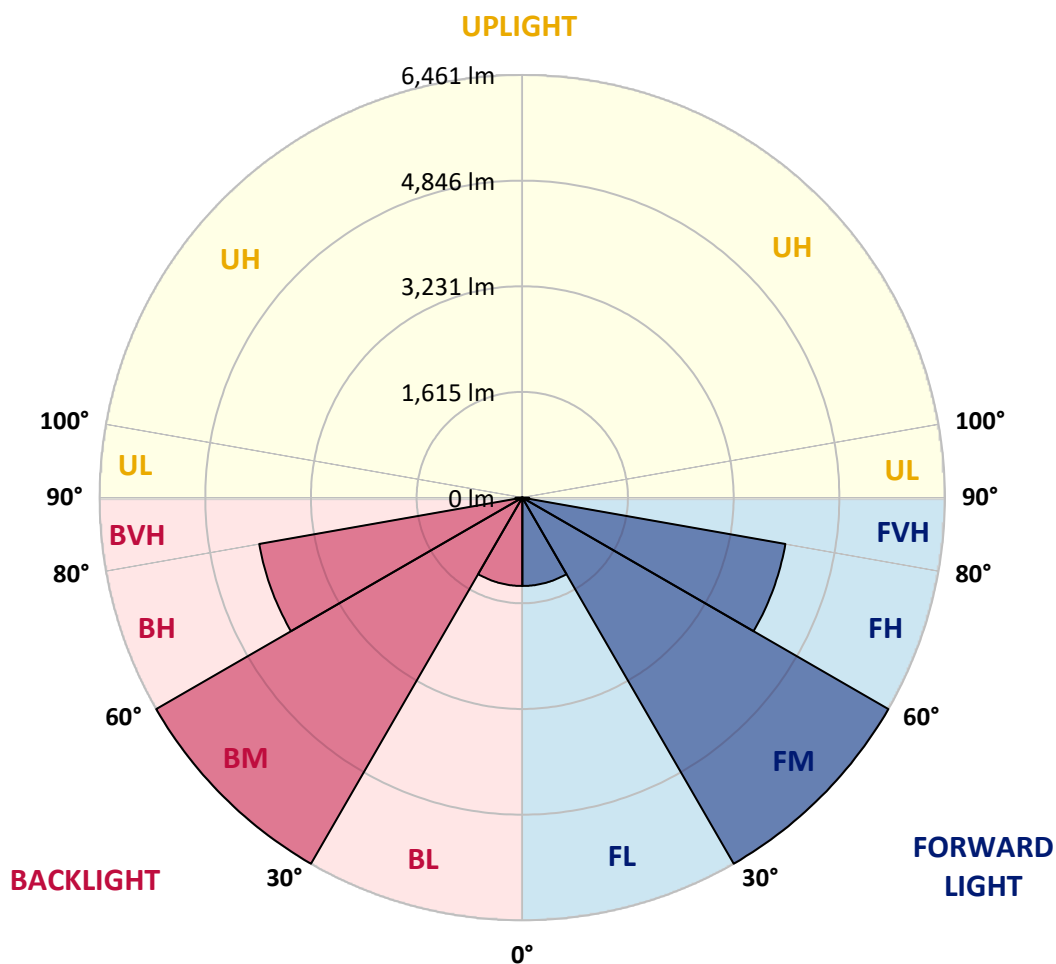
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.3	5.6			
FM	(30°-60°)	6461.1	26.9			
FH	(60°-80°)	4083.0	17.0			G2/5000
FVH	(80°-90°)	104.1	0.4			G2/225
BL	(0°-30°)	1350.3	5.6	B3/2500		
BM	(30°-60°)	6461.1	26.9	B4/8500		
BH	(60°-80°)	4083.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	104.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2500.6	2503.2	2505.8	2509.6	2514.8	2522.5	2527.6	2531.5	2541.8	2543.0	2541.8
5°	2491.6	2494.2	2500.6	2512.2	2528.9	2552.0	2570.0	2591.9	2608.6	2620.2	2617.6
7.5°	2490.3	2495.5	2505.8	2530.2	2562.3	2602.2	2643.3	2680.6	2712.8	2738.5	2734.6
10°	2510.9	2517.3	2534.0	2570.0	2620.2	2678.0	2735.9	2791.2	2837.5	2870.9	2882.5
12.5°	2545.6	2550.8	2581.6	2635.6	2707.6	2779.6	2845.2	2913.3	2977.6	3034.2	3034.2
15°	2606.0	2615.0	2653.6	2732.0	2820.7	2904.3	2971.2	3043.2	3112.6	3176.9	3196.2
17.5°	2689.6	2702.5	2760.3	2860.6	2973.7	3050.9	3113.9	3173.0	3233.4	3295.2	3304.2
20°	2804.0	2816.9	2894.0	3014.9	3148.6	3241.2	3283.6	3297.7	3327.3	3386.4	3394.2
22.5°	2959.6	2972.5	3058.6	3194.9	3344.0	3444.3	3462.3	3428.9	3421.2	3467.4	3472.6
25°	3135.7	3147.3	3246.3	3392.9	3547.1	3656.4	3651.3	3569.0	3522.7	3551.0	3558.7
27.5°	3333.7	3350.4	3450.7	3602.4	3769.6	3866.0	3850.6	3731.0	3632.0	3626.9	3629.4
30°	3587.0	3605.0	3700.1	3845.4	4010.0	4098.7	4066.6	3905.8	3752.9	3701.4	3701.4
32.5°	3854.4	3899.4	3995.8	4147.6	4276.1	4340.4	4291.5	4098.7	3895.6	3823.6	3819.7
35°	4202.8	4227.3	4322.4	4470.3	4566.7	4616.8	4523.0	4316.0	4082.0	3997.1	3985.6
37.5°	4543.5	4564.1	4674.7	4816.1	4933.1	4930.5	4803.2	4574.4	4313.4	4218.3	4210.6
40°	4892.0	4913.8	5039.8	5169.7	5286.7	5276.4	5122.1	4866.2	4588.5	4481.8	4502.4
42.5°	5194.1	5218.5	5361.2	5546.4	5651.8	5649.2	5470.5	5182.5	4893.2	4798.1	4816.1
45°	5469.2	5491.1	5656.9	5869.1	6023.3	6042.6	5847.2	5542.5	5245.5	5123.4	5128.5
47.5°	5663.4	5704.5	5878.1	6121.0	6330.6	6398.8	6207.2	5908.9	5566.9	5439.6	5447.4
50°	5811.2	5836.9	6025.9	6302.3	6567.2	6708.6	6554.3	6248.3	5888.3	5753.3	5771.3
52.5°	5829.2	5860.1	6065.8	6384.6	6724.0	6938.7	6862.9	6580.0	6216.2	6077.3	6115.9
55°	5682.6	5700.6	5946.2	6333.2	6785.7	7109.7	7129.0	6888.6	6528.6	6423.2	6448.9
57.5°	5264.8	5311.1	5622.2	6092.8	6700.9	7201.0	7328.3	7168.9	6844.9	6740.7	6781.9
60°	4579.5	4625.8	4938.2	5534.8	6380.8	7158.6	7492.9	7417.0	7131.6	7048.0	7069.9
62.5°	3588.3	3584.4	3971.4	4703.0	5744.3	6950.3	7615.0	7656.1	7414.4	7309.0	7342.4
65°	2325.8	2337.3	2711.5	3499.6	4784.0	6420.6	7642.0	7960.8	7692.1	7532.7	7557.1
66°	1870.6	1905.4	2222.9	2949.3	4294.1	6073.5	7561.0	8050.8	7777.0	7584.1	7595.7
67.5°	1380.8	1374.4	1635.4	2195.9	3428.9	5413.9	7307.7	8107.4	7873.4	7630.4	7635.6
70°	788.1	786.8	879.4	1206.0	2015.9	3812.0	6159.6	7836.1	8068.8	7797.6	7783.4
72.5°	576.0	572.1	585.0	666.0	983.5	1924.6	4249.1	6848.7	7968.5	7770.6	7730.7
75°	483.4	480.8	478.3	488.6	551.6	871.7	2255.1	4926.7	6914.3	7293.6	7252.4
77.5°	394.7	394.7	396.0	393.4	396.0	459.0	934.7	2640.8	4210.6	4700.4	4814.8
80°	308.6	307.3	329.1	320.1	299.6	294.4	414.0	849.8	1397.5	1389.8	1146.8
82.5°	227.6	212.1	250.7	244.3	221.1	187.7	241.7	362.6	466.7	303.4	225.0
85°	144.0	142.7	177.4	162.0	135.0	88.7	115.7	155.6	192.8	117.0	95.1
87.5°	25.7	24.4	56.6	41.1	41.1	25.7	32.1	42.4	63.0	43.7	32.1
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)