

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: P529549

Luminaire Tested: **GALN-SA4D-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17582 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

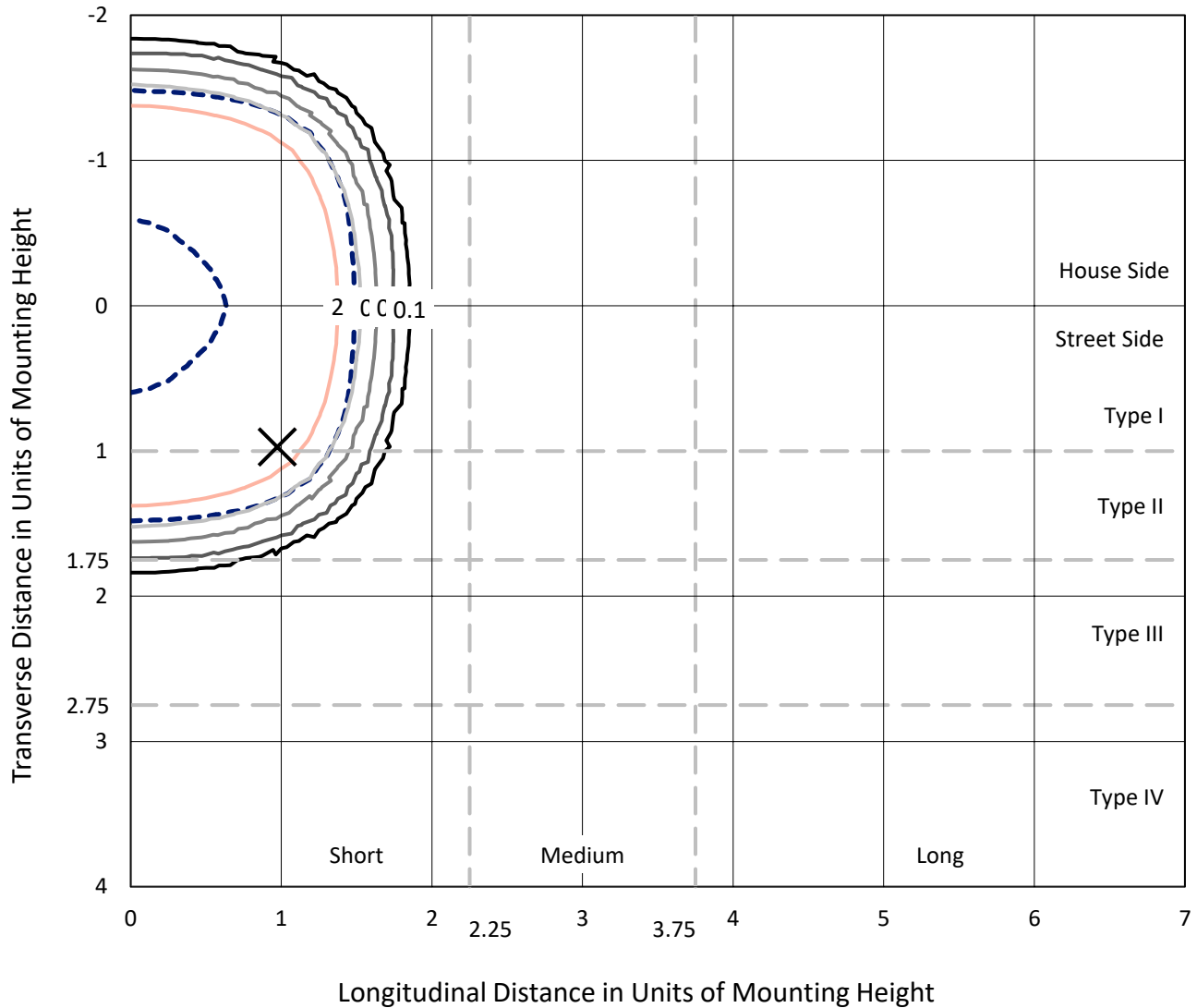
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

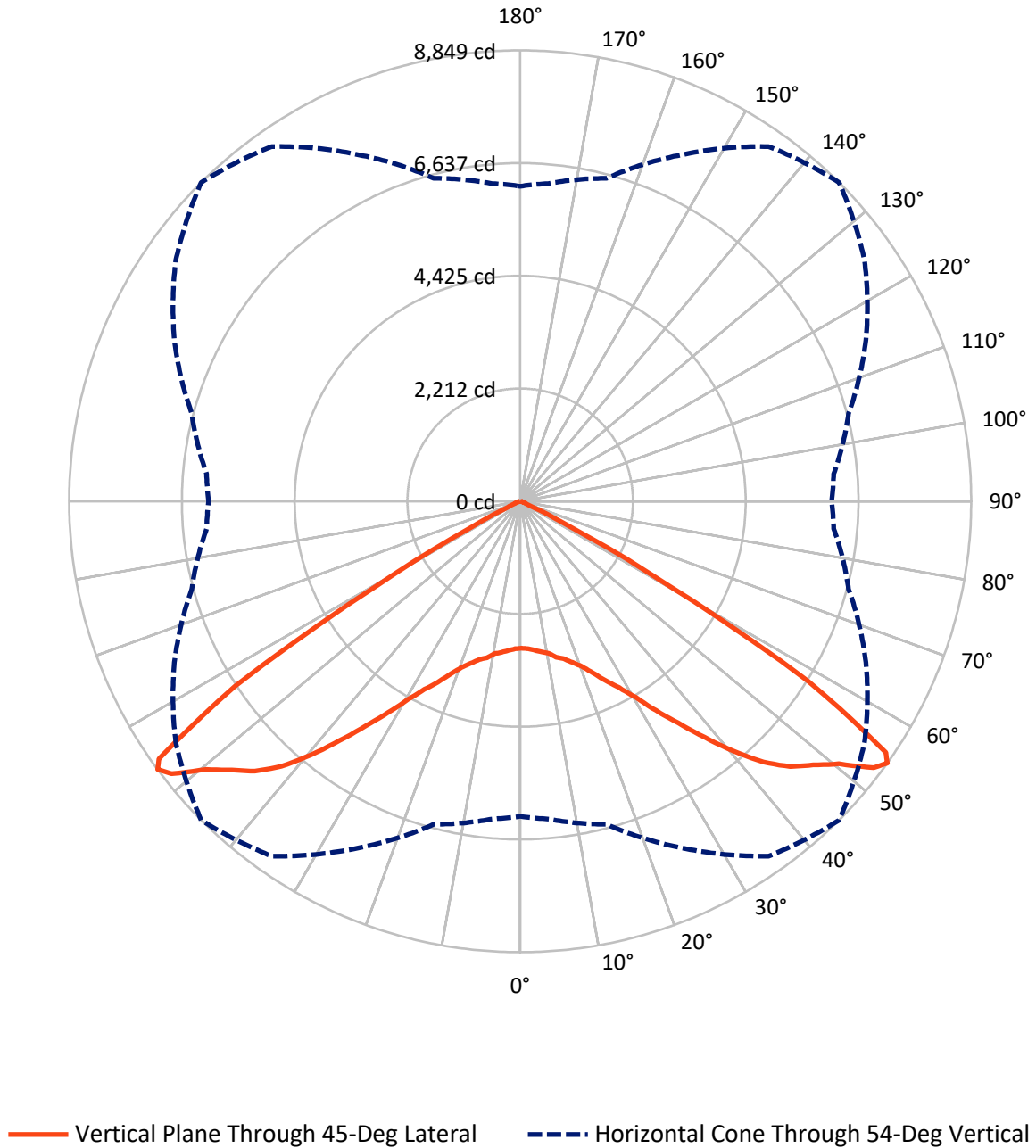
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot





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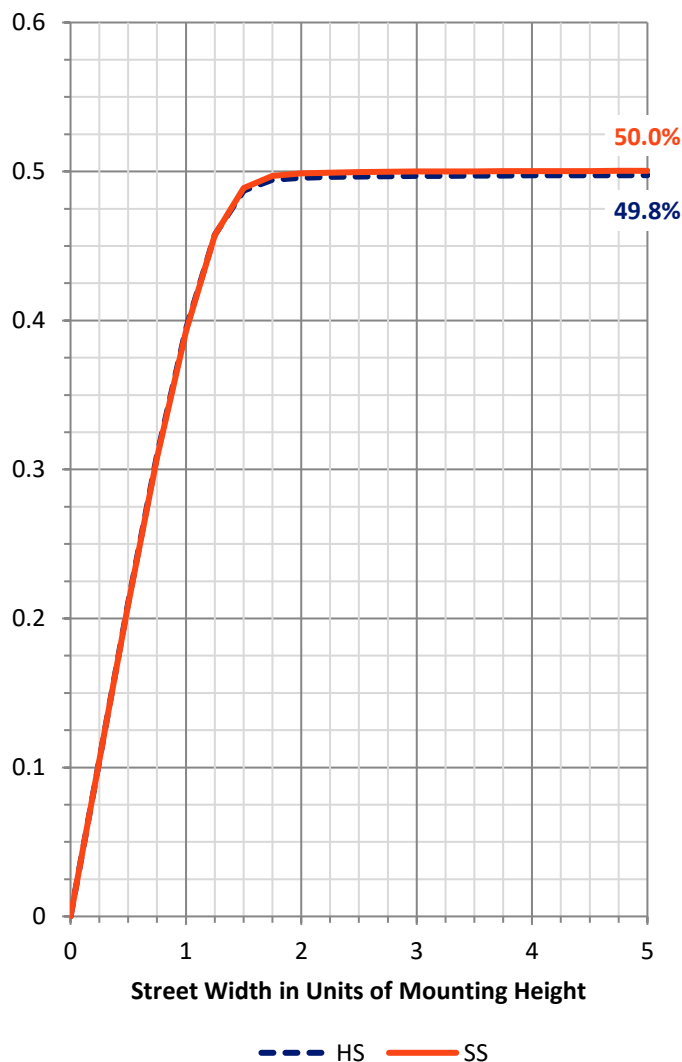
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8791.0	0.0	8791.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8791.0	0.0	8791.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17582.0	0.0	17582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.6
10°-20°	913.8	5.2
20°-30°	1790.9	10.2
30°-40°	3220.5	18.3
40°-50°	5512.8	31.4
50°-60°	5334.2	30.3
60°-70°	456.6	2.6
70°-80°	54.1	0.3
80°-90°	17.0	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°	17582.0	100.0
0°-180°	17582.0	100.0

Coefficient of Utilization

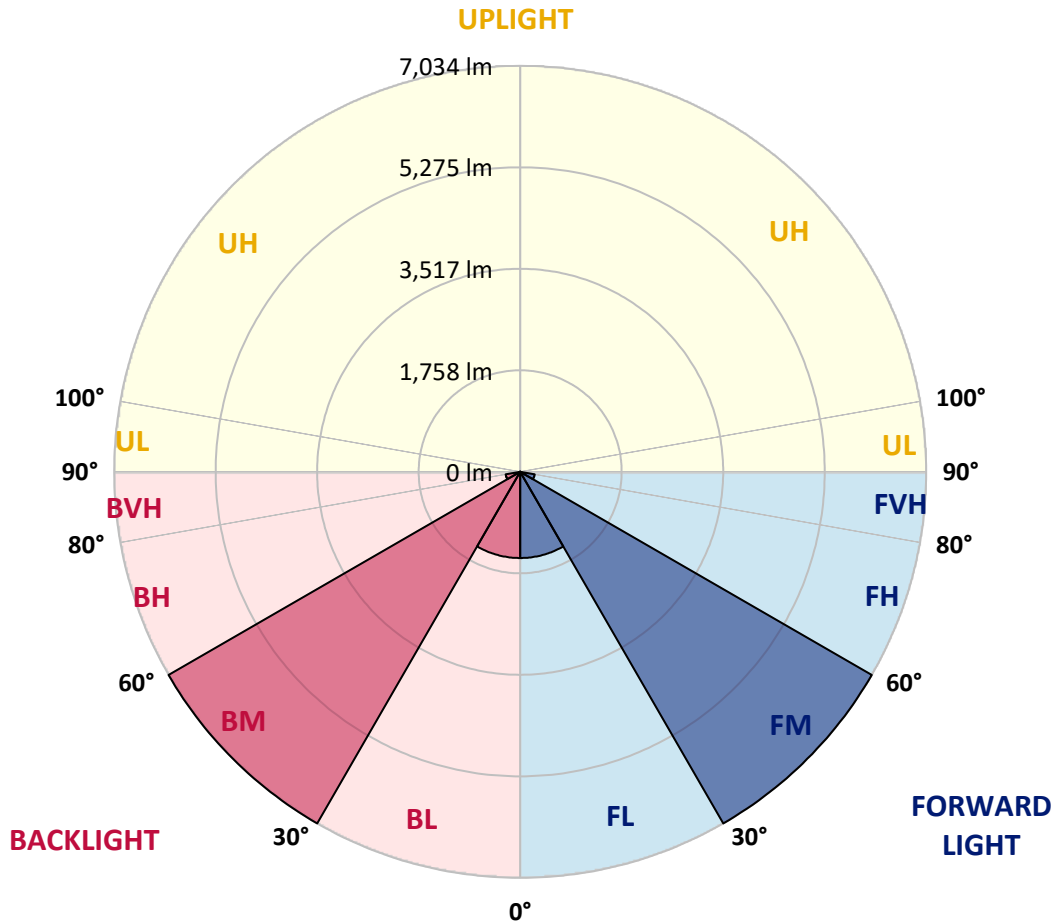


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.4	8.5			
FM (30°-60°)	7033.7	40.0			
FH (60°-80°)	255.4	1.5			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	1493.4	8.5	B3/2500		
BM (30°-60°)	7033.7	40.0	B4/8500		
BH (60°-80°)	255.4	1.5	B1/500		G0/660
BVH (80°-90°)	8.5	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°	2882.9	2882.9	2882.9	2882.9	2882.9	2882.9	2882.9	2882.9	2882.9	2882.9	2882.9
2.5°	2896.8	2913.5	2902.4	2910.8	2910.8	2896.8	2905.2	2871.8	2894.0	2877.3	2880.1
5°	2941.4	2938.6	2938.6	2941.4	2930.3	2935.8	2924.7	2913.5	2905.2	2894.0	2927.5
7.5°	2997.1	2997.1	2977.6	2983.2	2977.6	2986.0	2963.7	2941.4	2933.0	2924.7	2919.1
10°	3050.0	3044.5	3036.1	3061.2	3041.7	3030.5	3019.4	3005.5	2974.8	2963.7	2952.5
12.5°	3128.0	3125.2	3114.1	3139.2	3128.0	3139.2	3097.4	3061.2	3055.6	3019.4	3038.9
15°	3219.9	3245.0	3225.5	3225.5	3219.9	3206.0	3189.3	3172.6	3122.4	3108.5	3111.3
17.5°	3339.7	3331.4	3334.1	3334.1	3362.0	3325.8	3292.4	3250.6	3225.5	3217.1	3189.3
20°	3453.9	3465.1	3462.3	3481.8	3498.5	3459.5	3423.3	3417.7	3348.1	3359.2	3320.2
22.5°	3654.5	3646.1	3660.0	3674.0	3662.8	3657.2	3623.8	3582.0	3520.8	3492.9	3487.3
25°	3866.2	3852.2	3827.2	3860.6	3877.3	3902.4	3838.3	3816.0	3721.3	3679.5	3682.3
27.5°	4047.2	4066.7	4094.6	4108.5	4150.3	4141.9	4097.3	4024.9	3952.5	3905.1	3874.5
30°	4295.1	4306.2	4353.6	4373.1	4445.5	4465.0	4395.4	4311.8	4183.7	4122.4	4086.2
32.5°	4523.5	4601.5	4598.7	4696.2	4813.2	4894.0	4768.6	4640.5	4512.4	4439.9	4375.9
35°	4894.0	4880.0	4960.8	5063.9	5253.3	5345.2	5208.7	5061.1	4866.1	4749.1	4699.0
37.5°	5239.4	5244.9	5353.6	5517.9	5735.2	5877.2	5757.4	5515.1	5314.6	5164.2	5094.5
40°	5740.7	5751.9	5863.3	6049.9	6295.0	6448.2	6309.0	6063.8	5796.4	5679.5	5679.5
42.5°	6328.5	6375.8	6448.2	6609.8	6829.8	6999.7	6874.4	6682.2	6412.0	6261.6	6283.9
45°	6932.9	6955.2	7002.5	7242.1	7345.1	7428.7	7311.7	7222.6	7041.5	6857.7	6827.0
47.5°	7498.3	7506.7	7646.0	7721.2	7801.9	7732.3	7807.5	7690.5	7487.2	7308.9	7272.7
50°	7749.0	7735.1	7932.9	8161.3	8222.5	8100.0	8035.9	7957.9	7648.7	7434.3	7339.6
52.5°	7019.2	7100.0	7467.7	8102.8	8581.9	8684.9	8311.7	7952.3	7375.8	6958.0	6893.9
54°	6183.6	6258.8	6562.4	7503.9	8501.1	8849.3	8247.6	7484.4	6671.1	6175.3	6111.2
55°	5356.3	5272.8	5824.3	6785.3	8122.3	8704.4	7994.1	6880.0	5949.6	5495.6	5406.5
57.5°	2899.6	2913.5	3378.7	4286.7	5707.3	6673.8	5893.9	4654.4	3515.2	3005.5	2960.9
60°	919.2	941.5	1144.8	1732.5	2726.9	3256.1	2791.0	1869.0	1292.4	1036.2	994.4
62.5°	286.9	298.0	325.9	484.7	746.5	1066.8	835.6	501.4	373.2	342.6	348.2
65°	175.5	175.5	178.3	189.4	222.8	259.0	250.7	220.0	211.7	206.1	203.3
67.5°	114.2	111.4	117.0	125.3	130.9	133.7	142.1	150.4	147.6	142.1	142.1
70°	69.6	66.8	72.4	83.6	86.3	91.9	100.3	111.4	108.6	103.1	105.8
72.5°	39.0	39.0	41.8	50.1	58.5	64.1	72.4	80.8	83.6	80.8	80.8
75°	13.9	16.7	22.3	30.6	36.2	44.6	52.9	61.3	69.6	64.1	61.3
77.5°	5.6	5.6	11.1	19.5	27.9	36.2	50.1	58.5	64.1	58.5	52.9
80°	2.8	2.8	8.4	16.7	25.1	33.4	41.8	50.1	52.9	47.4	41.8
82.5°	2.8	2.8	8.4	16.7	25.1	30.6	44.6	50.1	55.7	50.1	41.8
85°	0.0	2.8	8.4	16.7	22.3	25.1	25.1	16.7	13.9	8.4	8.4
87.5°	0.0	0.0	2.8	0.0	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)