

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: STREETWORKS

Report Number: P316099

Luminaire Tested: **GAN-SA5D-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34160 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

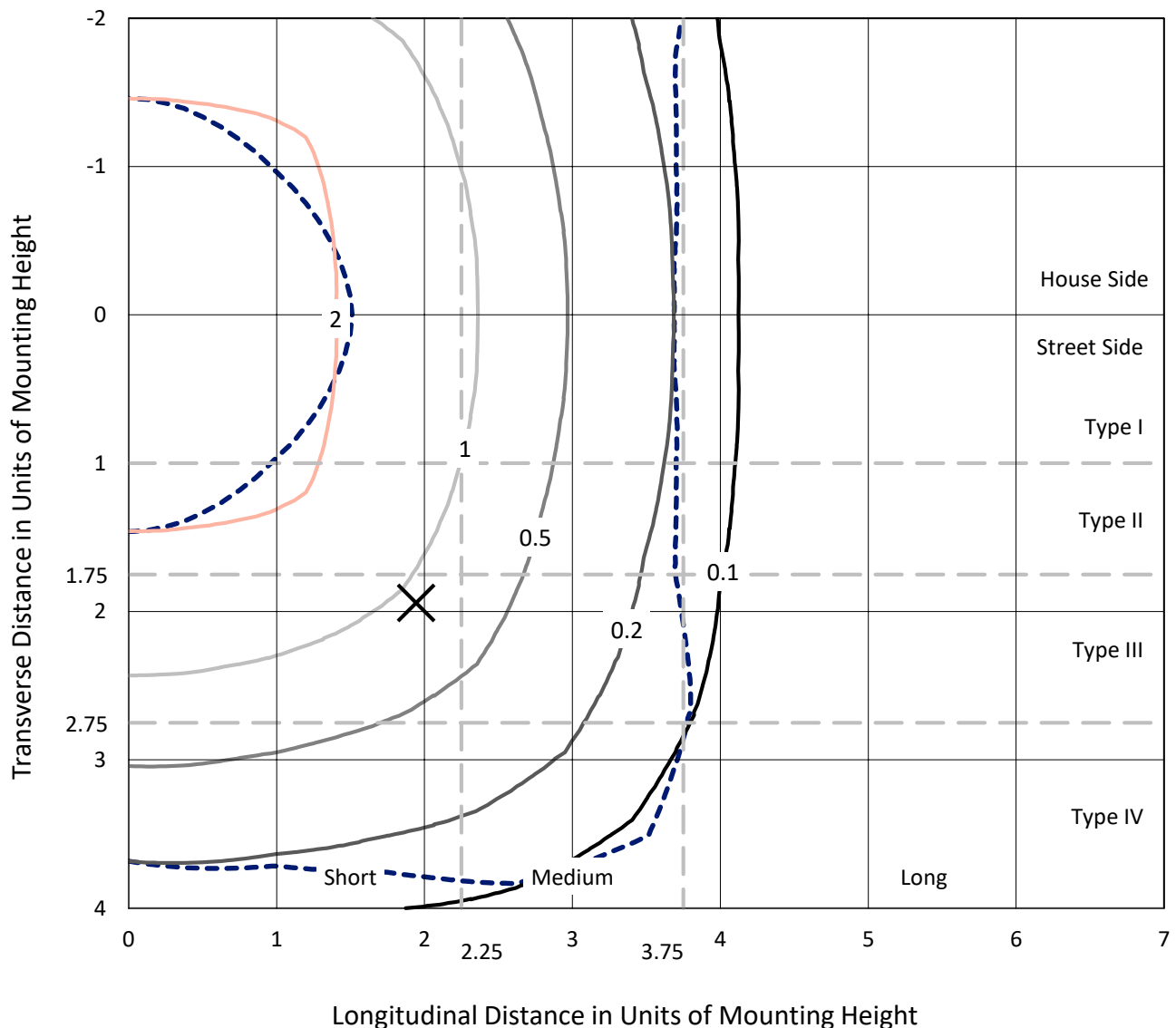
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

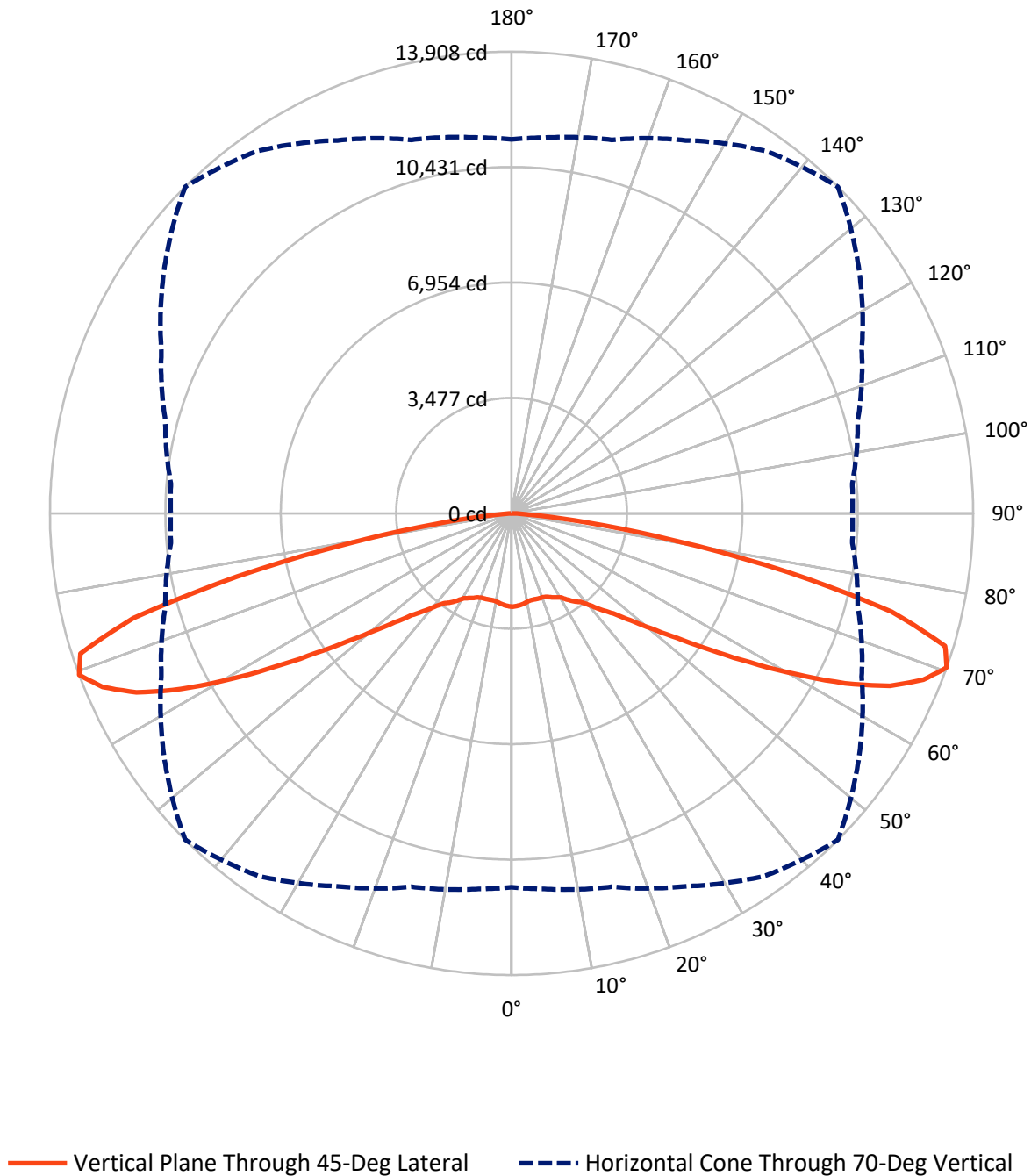
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	17080.0	0.0	17080.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17080.0	0.0	17080.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34160.0	0.0	34160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	0.8
10°-20°	766.5	2.2
20°-30°	1306.8	3.8
30°-40°	2041.9	6.0
40°-50°	3460.6	10.1
50°-60°	6310.6	18.5
60°-70°	10864.1	31.8
70°-80°	8515.7	24.9
80°-90°	631.4	1.8
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°	34160.0	100.0
0°-180°	34160.0	100.0

Coefficient of Utilization



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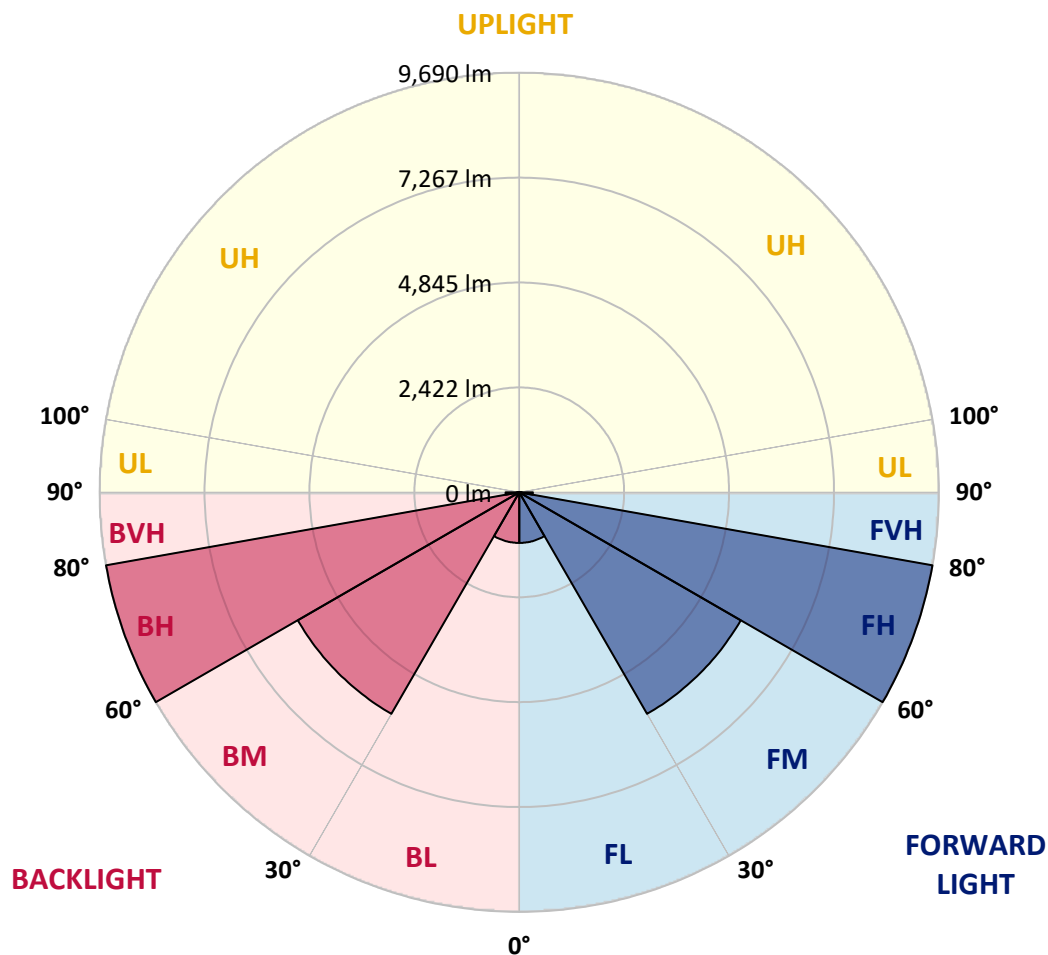
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.8	3.4			
FM	(30°-60°)	5906.5	17.3			
FH	(60°-80°)	9689.9	28.4			G4/12000
FVH	(80°-90°)	315.7	0.9			G3/500
BL	(0°-30°)	1167.8	3.4	B3/2500		
BM	(30°-60°)	5906.5	17.3	B4/8500		
BH	(60°-80°)	9689.9	28.4	B5		G4/12000
BVH	(80°-90°)	315.7	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4	2811.4
2.5°	2798.9	2802.3	2798.9	2801.2	2795.6	2797.8	2797.8	2797.8	2796.7	2797.8	2795.6
5°	2774.1	2776.3	2771.8	2774.1	2770.7	2774.1	2775.2	2774.1	2771.8	2773.0	2768.4
7.5°	2736.8	2739.1	2735.7	2739.1	2734.5	2740.2	2739.1	2735.7	2732.3	2732.3	2727.8
10°	2716.5	2717.6	2708.5	2705.2	2695.0	2697.2	2700.6	2704.0	2707.4	2714.2	2713.1
12.5°	2717.6	2717.6	2704.0	2689.3	2674.6	2678.0	2683.7	2696.1	2709.7	2722.1	2723.2
15°	2728.9	2727.8	2707.4	2683.7	2673.5	2683.7	2687.1	2695.0	2716.5	2737.9	2739.1
17.5°	2736.8	2736.8	2705.2	2678.0	2676.9	2692.7	2691.6	2695.0	2718.7	2750.4	2751.5
20°	2751.5	2751.5	2710.8	2681.4	2681.4	2698.4	2699.5	2705.2	2728.9	2763.9	2769.6
22.5°	2784.3	2785.4	2742.4	2718.7	2721.0	2731.1	2734.5	2743.6	2765.0	2803.5	2810.2
25°	2830.6	2832.8	2788.8	2775.2	2783.1	2802.3	2800.1	2806.9	2830.6	2867.9	2874.7
27.5°	2895.0	2889.3	2848.7	2843.0	2850.9	2864.5	2863.4	2864.5	2883.7	2917.6	2925.5
30°	2978.6	2976.3	2947.0	2950.4	2947.0	2942.4	2943.6	2952.6	2962.8	2989.9	2997.8
32.5°	3060.0	3062.2	3044.1	3061.1	3086.0	3102.9	3076.9	3052.1	3040.8	3055.4	3062.2
35°	3206.9	3212.5	3184.3	3173.0	3206.9	3256.6	3183.1	3142.5	3165.1	3184.3	3189.9
37.5°	3456.6	3460.0	3412.5	3367.3	3342.5	3389.9	3316.5	3319.9	3399.0	3435.1	3434.0
40°	3741.3	3742.5	3710.8	3671.3	3628.3	3639.6	3610.3	3619.3	3671.3	3704.1	3713.1
42.5°	4080.3	4076.9	4027.2	3970.7	3958.3	3969.6	3919.9	3913.1	3973.0	4031.7	4032.9
45°	4519.9	4512.0	4447.6	4385.4	4325.5	4300.7	4288.2	4321.0	4403.5	4457.7	4458.9
47.5°	4993.4	4971.9	4938.0	4888.3	4836.3	4811.4	4791.1	4806.9	4866.8	4888.3	4890.5
50°	5480.4	5484.9	5491.7	5472.5	5453.2	5445.3	5392.2	5361.7	5379.8	5340.3	5334.6
52.5°	6057.8	6066.8	6132.4	6187.7	6220.5	6237.5	6136.9	6031.8	5973.0	5896.2	5873.6
55°	6739.2	6753.8	6849.9	7003.6	7161.8	7245.4	7063.5	6866.8	6684.9	6541.4	6495.1
57.5°	7498.5	7524.5	7656.7	7951.6	8275.9	8473.7	8166.3	7809.2	7457.8	7251.0	7214.9
60°	8388.9	8413.8	8596.8	9019.4	9544.9	9842.1	9376.5	8792.3	8355.0	8157.3	8090.6
62.5°	9448.8	9451.1	9676.0	10169.8	10863.6	11277.1	10646.6	9865.8	9414.9	9176.5	9112.1
65°	10589.0	10594.6	10827.4	11360.7	12078.3	12528.0	11816.1	11002.5	10451.1	10099.7	10050.0
67.5°	11394.6	11418.4	11663.6	12305.4	12976.6	13382.3	12645.5	11725.7	11088.4	10669.2	10627.4
70°	11265.8	11358.5	11646.6	12395.8	13329.2	13907.7	12780.0	11639.9	10799.2	10304.2	10269.2
72.5°	9825.1	10002.5	10386.7	11369.8	12862.5	13659.1	12046.6	10425.1	9473.7	9052.2	8988.9
75°	6690.6	6978.7	7558.4	8976.5	10989.0	11826.3	10141.5	8312.1	7417.1	6834.1	6791.1
77.5°	2983.1	3048.7	3783.1	5416.0	7583.2	8492.9	7368.6	5437.4	4081.5	3255.5	3081.4
80°	831.7	841.8	1123.2	2017.0	3795.6	4990.0	4074.7	2118.7	1191.0	839.6	791.0
82.5°	264.4	287.0	350.3	523.2	1275.7	2276.9	1309.6	565.0	402.3	320.9	289.3
85°	128.8	127.7	177.4	212.4	325.4	504.0	346.9	262.2	229.4	152.5	137.9
87.5°	54.2	55.4	82.5	74.6	94.9	81.4	111.9	117.5	123.2	67.8	58.8
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)