

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: P316282

Luminaire Tested: **GAN-SA8B-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316282
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-SA8B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35463 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

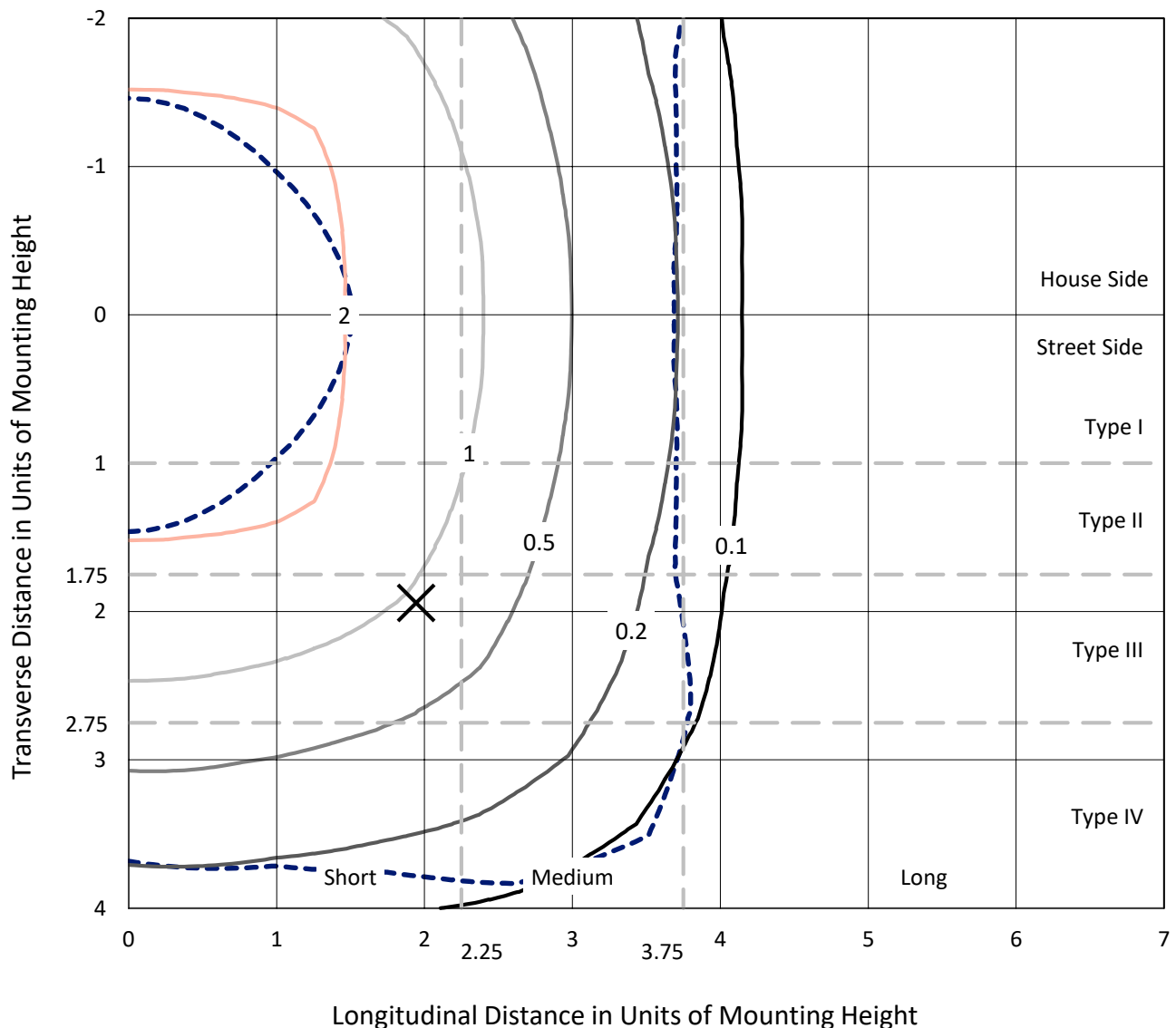
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

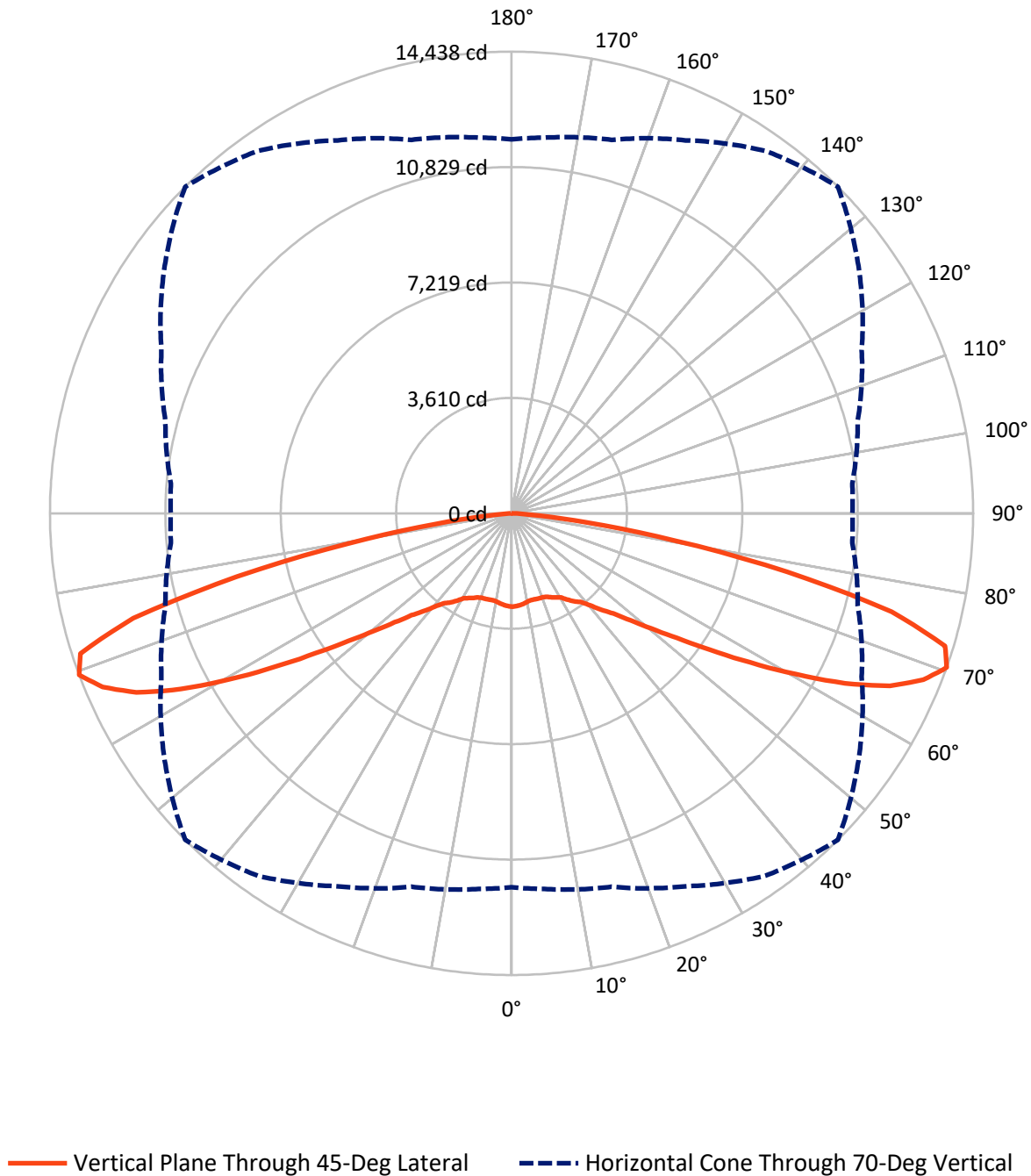
✕ Max cd
 - - - 1/2 Max cd



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	17731.5	0.0	17731.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17731.5	0.0	17731.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35463.0	0.0	35463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	0.8
10°-20°	795.7	2.2
20°-30°	1356.6	3.8
30°-40°	2119.8	6.0
40°-50°	3592.6	10.1
50°-60°	6551.3	18.5
60°-70°	11278.5	31.8
70°-80°	8840.5	24.9
80°-90°	655.5	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°	35463.0	100.0
0°-180°	35463.0	100.0

Coefficient of Utilization



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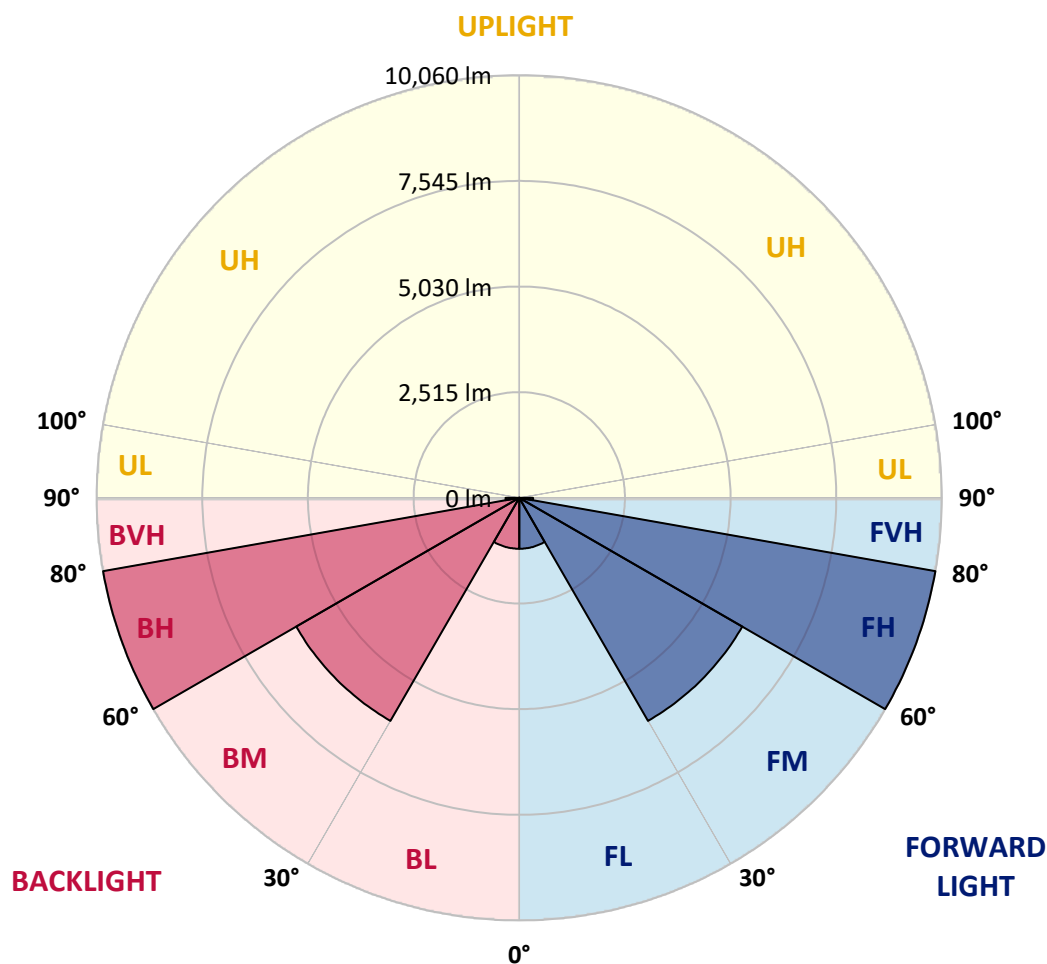
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.4	3.4			
FM	(30°-60°)	6131.8	17.3			
FH	(60°-80°)	10059.5	28.4			G4/12000
FVH	(80°-90°)	327.8	0.9			G3/500
BL	(0°-30°)	1212.4	3.4	B3/2500		
BM	(30°-60°)	6131.8	17.3	B4/8500		
BH	(60°-80°)	10059.5	28.4	B5		G4/12000
BVH	(80°-90°)	327.8	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°	2918.6	2918.6	2918.6	2918.6	2918.6	2918.6	2918.6	2918.6	2918.6	2918.6	2918.6
2.5°	2905.7	2909.2	2905.7	2908.1	2902.2	2904.5	2904.5	2904.5	2903.4	2904.5	2902.2
5°	2879.9	2882.2	2877.6	2879.9	2876.4	2879.9	2881.1	2879.9	2877.6	2878.7	2874.0
7.5°	2841.2	2843.5	2840.0	2843.5	2838.8	2844.7	2843.5	2840.0	2836.5	2836.5	2831.8
10°	2820.1	2821.2	2811.9	2808.3	2797.8	2800.1	2803.6	2807.2	2810.7	2817.7	2816.6
12.5°	2821.2	2821.2	2807.2	2791.9	2776.7	2780.2	2786.1	2799.0	2813.0	2825.9	2827.1
15°	2833.0	2831.8	2810.7	2786.1	2775.5	2786.1	2789.6	2797.8	2820.1	2842.4	2843.5
17.5°	2841.2	2841.2	2808.3	2780.2	2779.0	2795.4	2794.3	2797.8	2822.4	2855.3	2856.4
20°	2856.4	2856.4	2814.2	2783.7	2783.7	2801.3	2802.5	2808.3	2833.0	2869.3	2875.2
22.5°	2890.5	2891.6	2847.1	2822.4	2824.8	2835.3	2838.8	2848.2	2870.5	2910.4	2917.4
25°	2938.6	2940.9	2895.1	2881.1	2889.3	2909.2	2906.9	2913.9	2938.6	2977.3	2984.3
27.5°	3005.4	2999.6	2957.3	2951.5	2959.7	2973.7	2972.6	2973.7	2993.7	3028.9	3037.1
30°	3092.2	3089.9	3059.4	3062.9	3059.4	3054.7	3055.9	3065.2	3075.8	3104.0	3112.2
32.5°	3176.7	3179.0	3160.3	3177.9	3203.7	3221.3	3194.3	3168.5	3156.7	3172.0	3179.0
35°	3329.2	3335.1	3305.7	3294.0	3329.2	3380.8	3304.6	3262.3	3285.8	3305.7	3311.6
37.5°	3588.4	3592.0	3542.7	3495.8	3470.0	3519.2	3443.0	3446.5	3528.6	3566.1	3565.0
40°	3884.1	3885.2	3852.4	3811.3	3766.7	3778.5	3748.0	3757.4	3811.3	3845.3	3854.7
42.5°	4236.0	4232.5	4180.8	4122.2	4109.3	4121.0	4069.4	4062.4	4124.5	4185.5	4186.7
45°	4692.3	4684.1	4617.2	4552.7	4490.5	4464.7	4451.8	4485.8	4571.5	4627.8	4629.0
47.5°	5183.8	5161.5	5126.3	5074.7	5020.8	4995.0	4973.8	4990.3	5052.4	5074.7	5077.1
50°	5689.4	5694.1	5701.1	5681.2	5661.3	5653.0	5597.9	5566.2	5585.0	5544.0	5538.1
52.5°	6288.9	6298.2	6366.3	6423.8	6457.8	6475.4	6371.0	6261.9	6200.9	6121.1	6097.6
55°	6996.2	7011.5	7111.2	7270.7	7434.9	7521.8	7332.9	7128.8	6939.9	6790.9	6742.8
57.5°	7784.5	7811.5	7948.8	8254.9	8591.6	8796.9	8477.8	8107.1	7742.3	7527.6	7490.1
60°	8708.9	8734.7	8924.8	9363.5	9909.0	10217.5	9734.2	9127.7	8673.7	8468.4	8399.2
62.5°	9809.3	9811.6	10045.0	10557.7	11277.9	11707.3	11052.7	10242.1	9774.1	9526.5	9459.7
65°	10992.9	10998.7	11240.4	11794.1	12539.0	13005.9	12266.8	11422.2	10849.8	10484.9	10433.3
67.5°	11829.3	11853.9	12108.5	12774.8	13471.6	13892.7	13127.9	12173.0	11511.4	11076.2	11032.8
70°	11695.6	11791.7	12090.9	12868.6	13837.6	14438.2	13267.5	12083.8	11211.1	10697.3	10660.9
72.5°	10199.9	10384.1	10782.9	11803.5	13353.1	14180.1	12506.1	10822.8	9835.1	9397.5	9331.8
75°	6945.8	7244.9	7846.7	9318.9	11408.2	12277.4	10528.3	8629.1	7700.1	7094.8	7050.2
77.5°	3096.9	3165.0	3927.5	5622.5	7872.5	8816.8	7649.6	5644.8	4237.1	3379.6	3199.0
80°	863.4	873.9	1166.0	2093.9	3940.4	5180.3	4230.1	2199.5	1236.4	871.6	821.2
82.5°	274.5	298.0	363.7	543.1	1324.4	2363.7	1359.6	586.5	417.6	333.2	300.3
85°	133.7	132.6	184.2	220.5	337.8	523.2	360.1	272.2	238.1	158.4	143.1
87.5°	56.3	57.5	85.6	77.4	98.5	84.5	116.1	122.0	127.9	70.4	61.0
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)