

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: P317189

Luminaire Tested: **GAN-SA5A-760-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-760-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23808 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 162
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

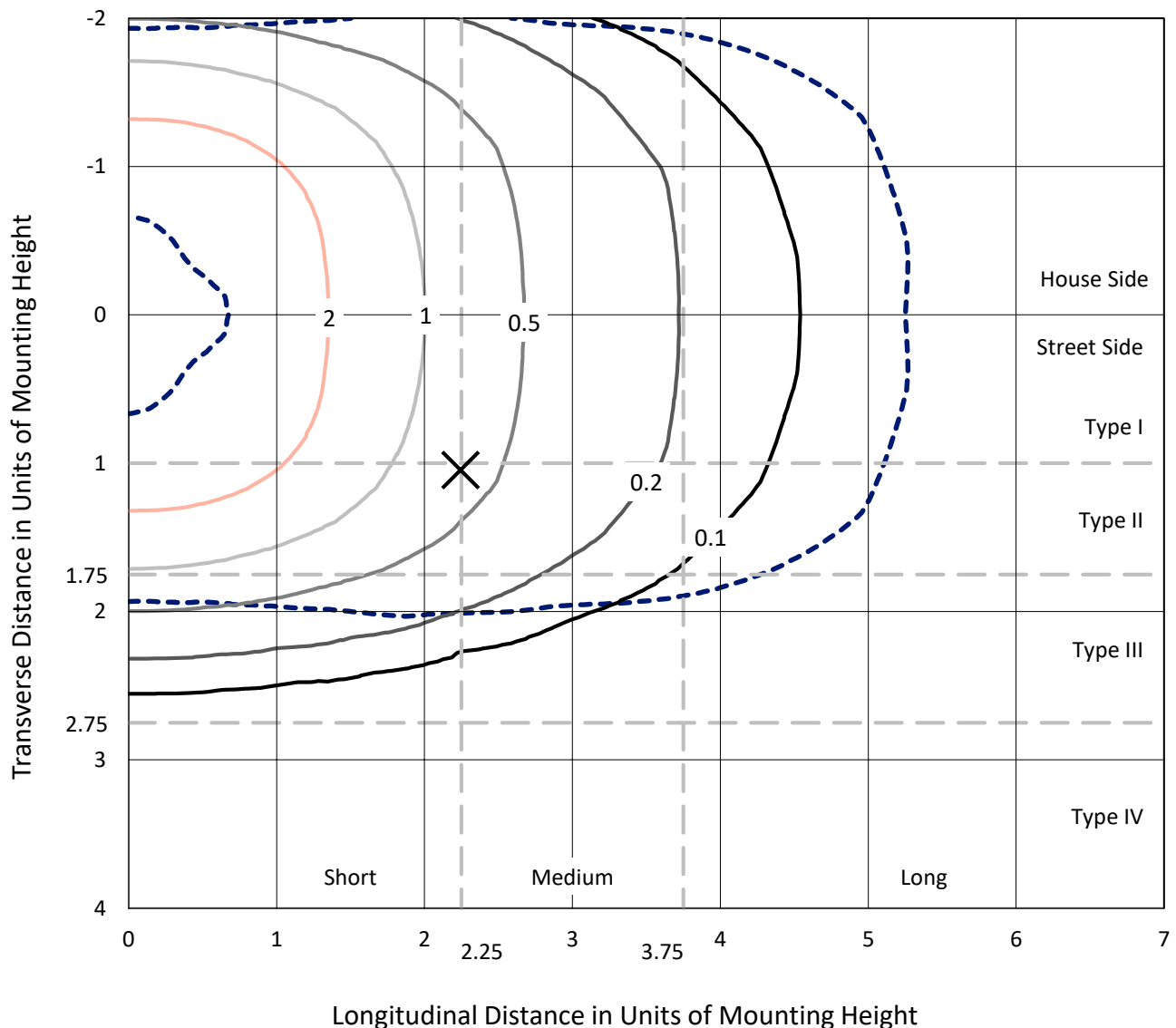


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Iso-Footcandle Lines of Horizontal Illumination

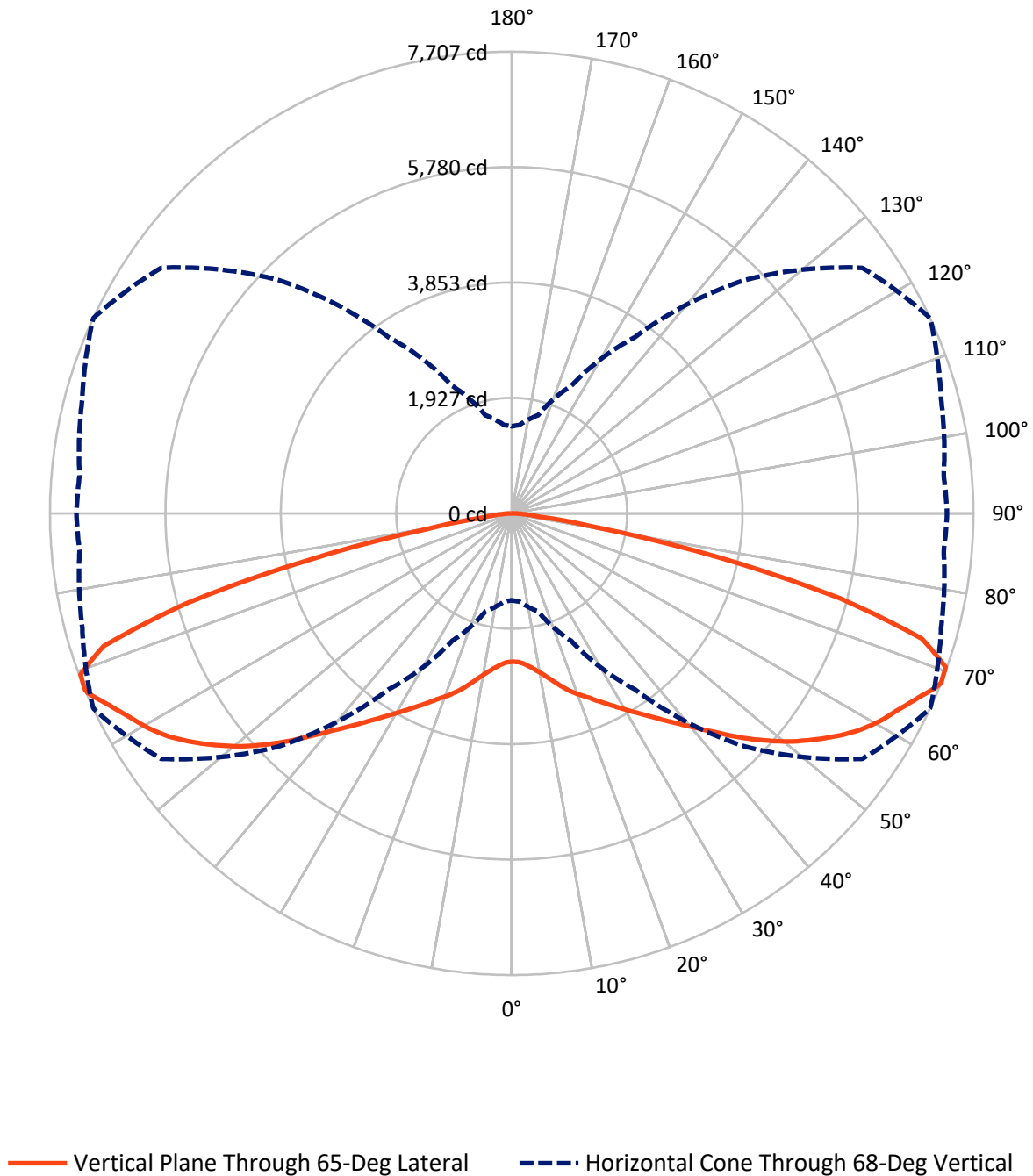
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11904.0	0.0	11904.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11904.0	0.0	11904.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23808.0	0.0	23808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	1.0
10°-20°	811.5	3.4
20°-30°	1582.3	6.6
30°-40°	2658.1	11.2
40°-50°	4188.3	17.6
50°-60°	5601.1	23.5
60°-70°	5445.0	22.9
70°-80°	2976.5	12.5
80°-90°	302.7	1.3
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°	23808.0	100.0
0°-180°	23808.0	100.0

Coefficient of Utilization



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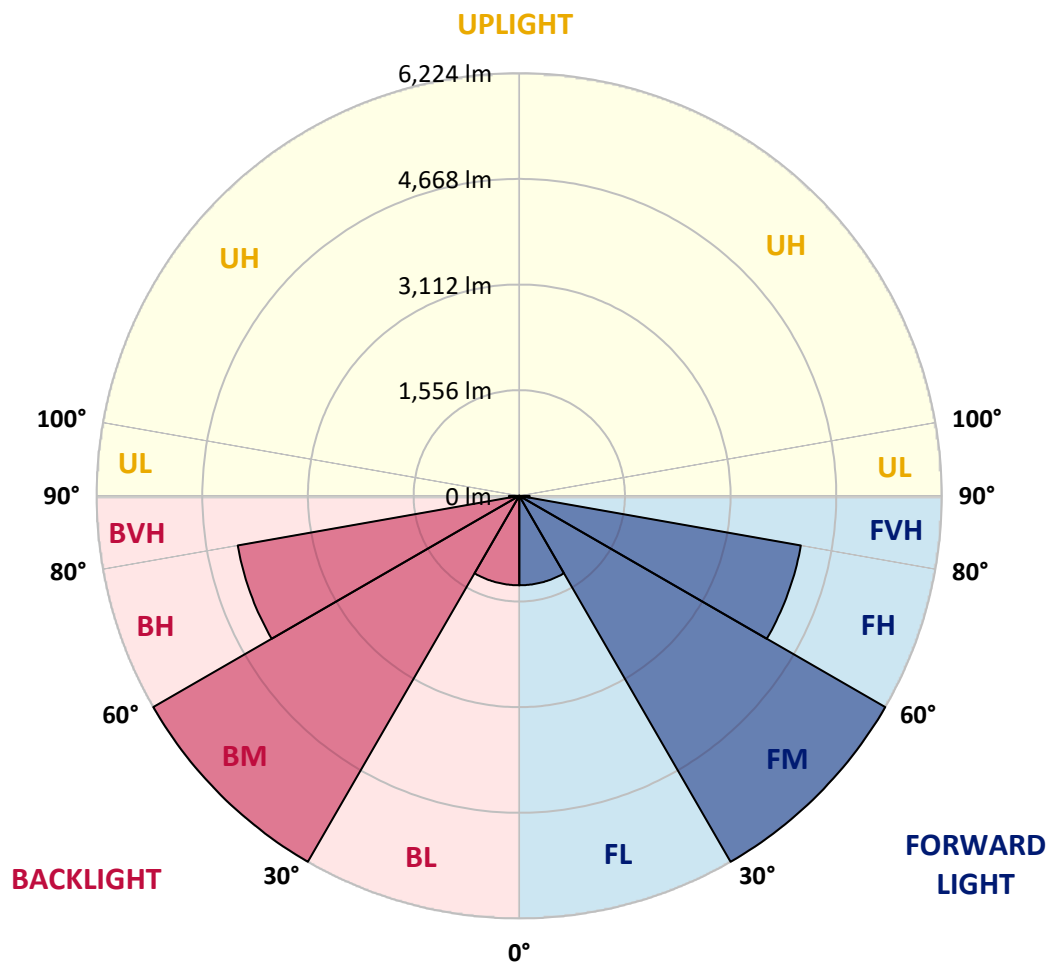
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1318.1	5.5			
FM	(30°-60°)	6223.8	26.1			
FH	(60°-80°)	4210.8	17.7			G2/5000
FVH	(80°-90°)	151.4	0.6			G2/225
BL	(0°-30°)	1318.1	5.5	B3/2500		
BM	(30°-60°)	6223.8	26.1	B4/8500		
BH	(60°-80°)	4210.8	17.7	B4/5000		G4/5000
BVH	(80°-90°)	151.4	0.6			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°	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5
2.5°	2457.9	2458.7	2462.7	2467.5	2471.5	2481.9	2484.3	2488.2	2489.8	2493.8	2493.8
5°	2436.4	2438.0	2447.5	2460.3	2474.7	2500.2	2518.6	2539.3	2549.7	2560.9	2560.1
7.5°	2434.0	2438.0	2451.5	2472.3	2496.2	2538.5	2576.9	2618.4	2646.3	2671.8	2670.3
10°	2458.7	2465.1	2484.3	2515.4	2551.3	2604.0	2660.7	2716.6	2765.2	2804.4	2806.0
12.5°	2496.2	2504.2	2534.5	2581.6	2635.9	2703.8	2770.8	2833.9	2901.0	2959.2	2964.0
15°	2545.7	2556.1	2601.6	2671.8	2754.9	2835.5	2907.3	2972.0	3049.4	3130.1	3138.0
17.5°	2619.2	2633.5	2693.4	2788.4	2897.8	2986.4	3061.4	3110.1	3174.8	3257.8	3273.0
20°	2730.9	2749.3	2825.1	2938.5	3071.8	3164.4	3221.9	3232.2	3264.2	3338.4	3356.0
22.5°	2876.2	2892.2	2976.8	3111.7	3261.0	3361.6	3391.9	3350.4	3347.2	3407.1	3423.8
25°	3038.3	3052.6	3150.8	3302.5	3462.9	3573.9	3573.1	3492.5	3436.6	3482.9	3500.5
27.5°	3220.3	3242.6	3336.8	3496.5	3668.1	3777.5	3771.1	3646.6	3540.4	3552.4	3567.5
30°	3429.4	3454.2	3546.0	3708.0	3879.6	3986.6	3978.6	3814.2	3654.5	3622.6	3633.8
32.5°	3688.9	3718.4	3805.4	3965.1	4116.7	4213.3	4190.2	3996.2	3791.8	3722.4	3732.8
35°	4001.0	4018.6	4110.4	4267.6	4390.5	4456.8	4408.1	4206.9	3965.9	3882.0	3882.0
37.5°	4317.1	4330.7	4433.7	4586.1	4705.1	4740.2	4645.2	4437.6	4193.4	4074.4	4076.8
40°	4620.5	4657.2	4772.9	4929.4	5046.7	5056.3	4930.2	4701.1	4446.4	4323.5	4337.9
42.5°	4937.4	4973.3	5111.4	5288.6	5392.4	5408.4	5260.7	4996.4	4732.2	4632.4	4648.4
45°	5220.0	5248.7	5408.4	5614.3	5743.6	5785.1	5610.3	5334.9	5041.1	4943.8	4947.8
47.5°	5417.1	5454.7	5630.3	5873.0	6061.4	6125.2	5953.6	5664.6	5345.3	5227.1	5237.5
50°	5596.0	5615.9	5793.9	6059.0	6298.4	6430.2	6283.3	5990.3	5652.6	5527.3	5538.5
52.5°	5695.7	5721.3	5893.7	6169.9	6453.3	6665.7	6576.2	6283.3	5949.6	5827.5	5841.0
55°	5626.3	5645.4	5852.2	6194.7	6549.1	6810.9	6824.5	6569.9	6241.0	6134.0	6172.3
57.5°	5310.2	5334.1	5586.4	6035.0	6561.1	6909.1	7011.3	6835.7	6513.2	6426.2	6448.5
60°	4816.0	4831.2	5100.2	5604.7	6328.0	6949.8	7130.3	7052.8	6779.8	6692.8	6723.1
62.5°	3935.5	3957.9	4279.6	4955.7	5835.4	6829.3	7245.2	7232.4	7028.1	6948.2	6975.4
65°	2690.2	2729.3	3085.4	3940.3	5076.3	6460.5	7349.8	7441.6	7247.6	7147.0	7182.9
67.5°	1624.5	1653.2	1911.1	2601.6	3884.4	5716.5	7242.0	7679.5	7402.5	7240.4	7270.0
68°	1452.1	1478.4	1694.0	2347.7	3593.1	5506.5	7143.8	7706.6	7419.2	7238.8	7265.2
70°	877.3	894.9	1039.4	1451.3	2395.6	4368.2	6474.1	7684.3	7526.2	7261.2	7276.3
72.5°	571.6	577.2	601.1	744.8	1223.8	2442.7	4859.1	7160.6	7686.7	7391.3	7388.9
75°	475.0	471.8	474.2	490.9	603.5	1071.3	2839.5	5656.6	7327.4	7186.1	7135.8
77.5°	401.5	399.1	398.3	399.1	403.9	517.3	1232.5	3523.6	5607.1	6356.7	6401.4
80°	324.9	321.7	332.1	327.3	312.9	321.7	516.5	1465.6	2643.1	2843.5	2664.7
82.5°	236.3	224.3	269.0	256.2	244.3	226.7	285.0	473.4	630.6	432.7	304.1
85°	182.0	169.2	204.4	196.4	167.6	115.8	169.2	231.5	255.5	146.1	115.0
87.5°	74.2	78.2	147.7	116.5	98.2	55.9	69.5	92.6	124.5	62.3	47.9
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)