

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: P316709

Luminaire Tested: **GAN-SA5A-727-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20092 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

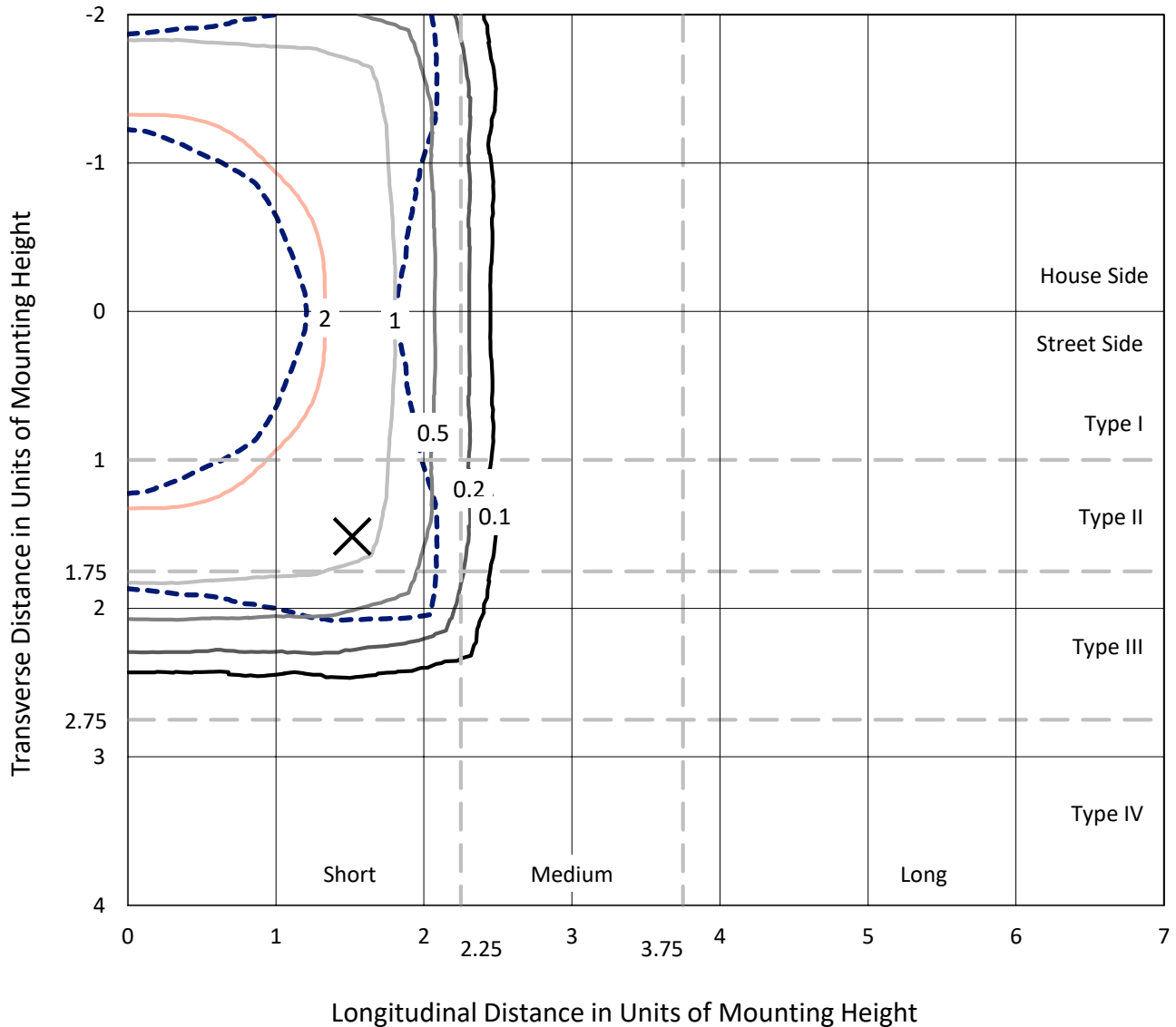
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

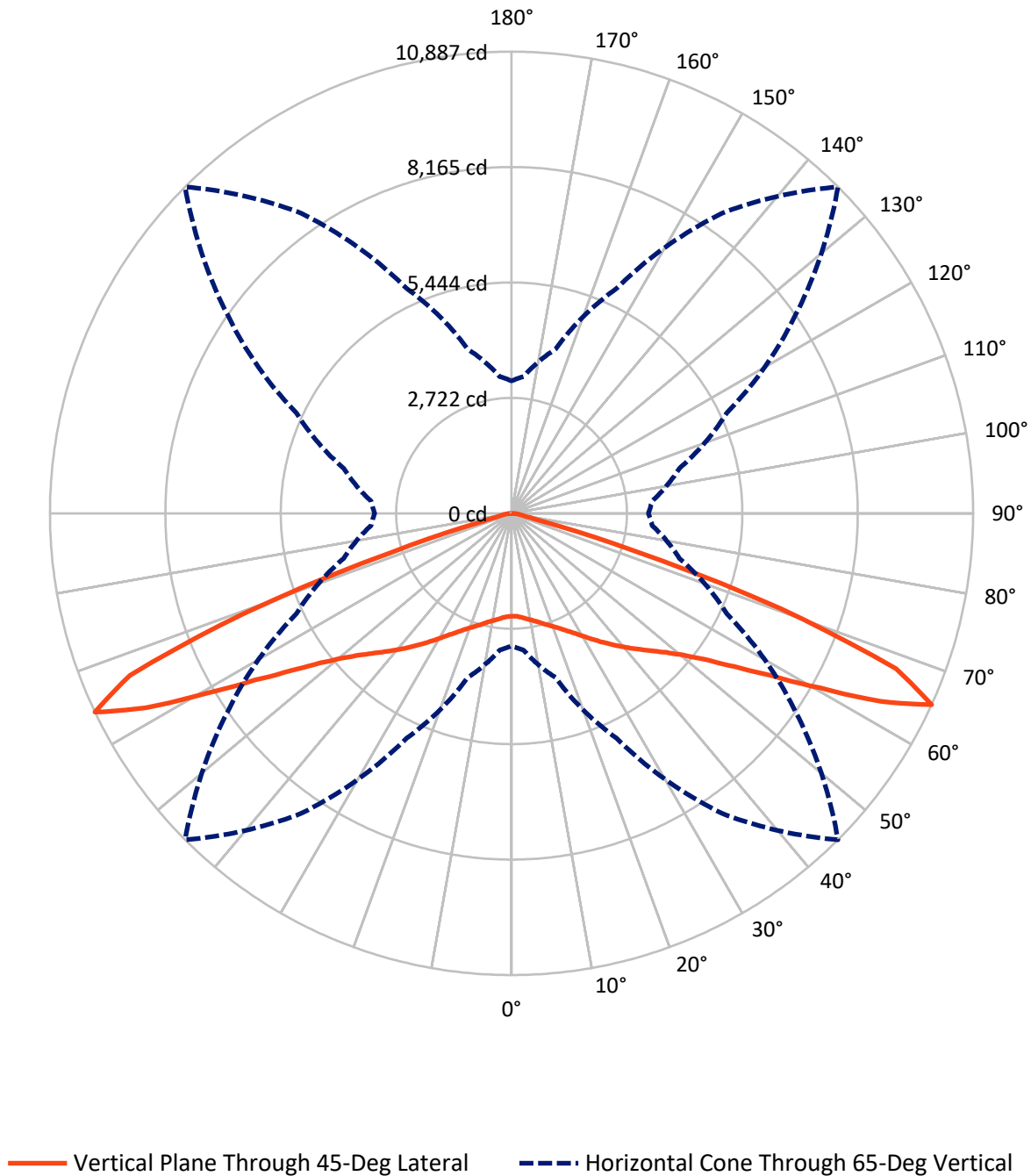
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	10046.0	0.0	10046.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10046.0	0.0	10046.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20092.0	0.0	20092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.2
10°-20°	765.2	3.8
20°-30°	1435.6	7.1
30°-40°	2374.2	11.8
40°-50°	3677.4	18.3
50°-60°	5640.1	28.1
60°-70°	5262.8	26.2
70°-80°	612.5	3.0
80°-90°	86.1	0.4
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°	20092.0	100.0
0°-180°	20092.0	100.0

Coefficient of Utilization



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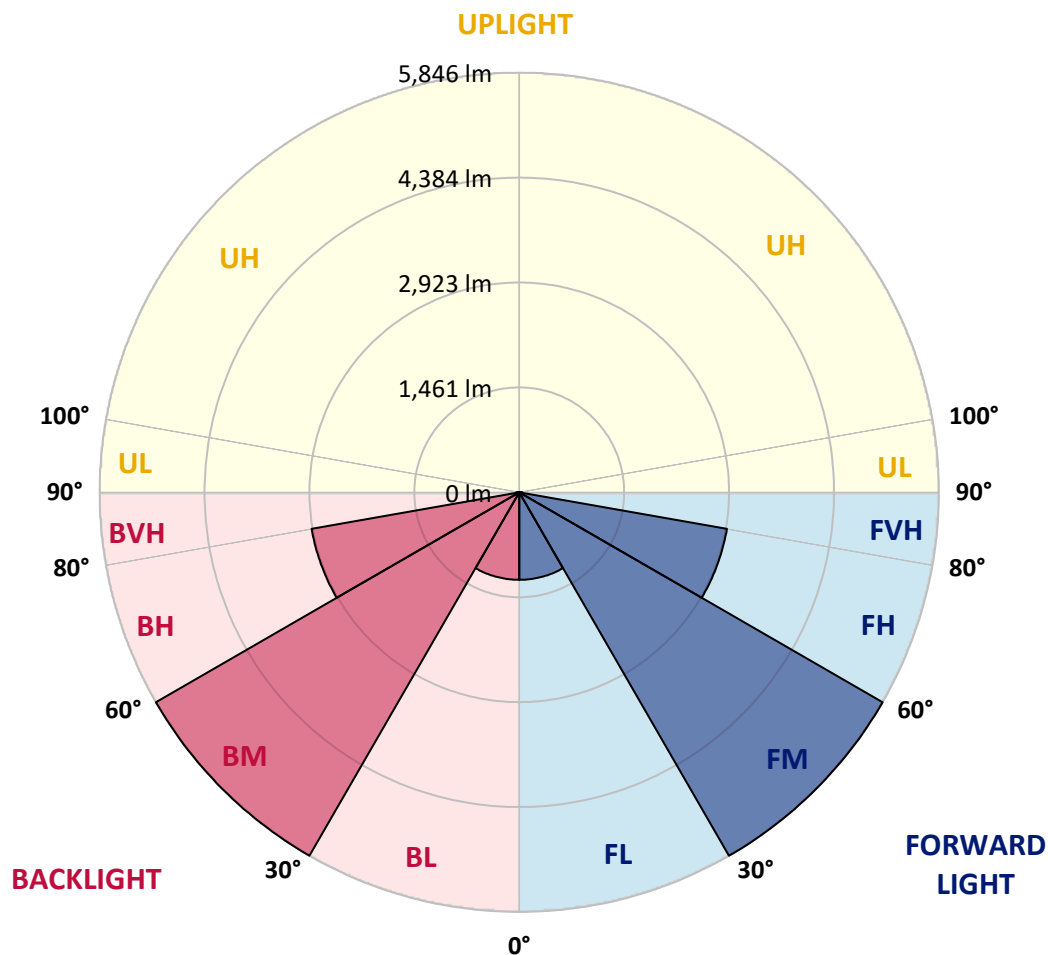
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1219.4	6.1			
FM	(30°-60°)	5845.9	29.1			
FH	(60°-80°)	2937.7	14.6			G2/5000
FVH	(80°-90°)	43.0	0.2			G1/100
BL	(0°-30°)	1219.4	6.1	B3/2500		
BM	(30°-60°)	5845.9	29.1	B4/8500		
BH	(60°-80°)	2937.7	14.6	B4/5000		G2/5000
BVH	(80°-90°)	43.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2426.4	2426.4	2426.4	2426.4	2426.4	2426.4	2426.4	2426.4	2426.4	2426.4	2426.4
2.5°	2434.4	2433.0	2434.4	2435.0	2431.0	2433.0	2432.4	2435.7	2437.0	2435.7	2435.7
5°	2462.4	2460.4	2463.0	2466.4	2461.0	2462.4	2460.4	2464.4	2465.7	2463.0	2465.0
7.5°	2501.1	2501.7	2504.4	2510.4	2507.1	2509.7	2505.7	2506.4	2505.7	2501.7	2502.4
10°	2543.1	2543.7	2548.4	2556.4	2557.8	2557.8	2555.1	2553.1	2550.4	2547.7	2548.4
12.5°	2593.8	2597.1	2600.4	2610.4	2610.4	2615.8	2614.4	2609.1	2604.4	2600.4	2600.4
15°	2662.5	2661.8	2665.8	2675.8	2680.5	2689.1	2689.1	2681.8	2675.8	2671.8	2670.5
17.5°	2734.5	2736.5	2739.2	2751.2	2758.5	2768.5	2769.8	2763.8	2759.8	2754.5	2751.2
20°	2818.5	2821.9	2832.5	2837.2	2843.9	2853.2	2856.5	2855.2	2851.2	2848.5	2849.2
22.5°	2916.6	2925.2	2931.9	2938.6	2946.6	2953.3	2956.6	2961.3	2957.3	2955.3	2953.9
25°	3035.3	3041.3	3054.6	3066.6	3072.0	3074.0	3078.0	3084.6	3084.0	3079.3	3079.3
27.5°	3170.0	3181.4	3198.0	3215.4	3215.4	3208.7	3222.0	3233.4	3229.4	3223.4	3215.4
30°	3333.4	3344.1	3363.4	3387.4	3375.4	3370.8	3388.8	3409.4	3403.4	3393.4	3392.1
32.5°	3509.5	3519.5	3544.8	3570.8	3555.5	3548.8	3568.2	3598.2	3587.5	3567.5	3555.5
35°	3700.2	3710.2	3746.3	3777.6	3751.6	3740.3	3756.3	3788.9	3770.3	3732.9	3723.6
37.5°	3907.7	3913.0	3959.7	3991.7	3973.7	3943.7	3963.7	3987.7	3971.7	3926.3	3908.3
40°	4123.1	4142.4	4196.4	4233.8	4202.5	4155.1	4188.4	4221.8	4197.8	4139.8	4109.1
42.5°	4374.5	4389.2	4461.2	4494.6	4443.9	4377.2	4422.5	4467.9	4443.9	4387.9	4361.2
45°	4636.0	4658.6	4744.7	4778.0	4704.7	4620.0	4675.3	4754.7	4752.7	4672.0	4644.0
47.5°	4920.8	4943.4	5046.1	5090.2	5010.8	4897.4	4975.4	5087.5	5079.5	4990.8	4968.1
50°	5249.6	5273.6	5401.6	5457.0	5383.0	5250.9	5368.3	5467.0	5452.3	5342.9	5344.9
52.5°	5662.4	5661.1	5820.5	5916.5	5840.5	5723.8	5831.8	5927.8	5867.2	5715.8	5711.1
55°	6023.9	6045.9	6243.3	6425.4	6420.7	6376.0	6419.4	6423.4	6250.0	6048.6	6023.9
57.5°	6261.3	6303.3	6581.5	6910.9	7157.7	7217.1	7133.0	6878.3	6472.1	6149.9	6110.6
60°	6115.3	6179.3	6616.1	7287.8	8014.7	8363.6	7889.3	7099.0	6299.3	5850.5	5797.1
62.5°	5129.5	5237.6	5877.2	7105.7	8752.4	9772.1	8437.6	6744.9	5612.4	4994.1	4902.7
65°	3124.0	3238.0	4009.0	5848.5	8633.0	10887.3	8187.5	5598.4	4096.4	3327.4	3228.7
67.5°	1041.1	1074.5	1528.6	3232.7	6784.9	9782.2	6796.2	3351.4	1782.8	1181.8	1147.2
70°	407.5	410.8	484.9	937.1	3204.0	6718.9	3535.5	953.7	506.9	400.8	409.5
72.5°	299.5	300.8	321.5	391.5	835.0	2959.9	865.0	393.5	312.8	280.8	280.8
75°	240.8	240.8	255.4	285.5	374.2	679.0	379.5	282.1	244.8	224.1	221.4
77.5°	190.1	194.1	205.4	224.8	253.4	326.8	262.8	223.4	197.4	178.1	174.1
80°	141.4	145.4	164.1	173.4	182.1	226.8	194.1	174.7	156.1	133.4	129.4
82.5°	92.7	96.7	120.1	125.4	123.4	148.1	130.7	128.7	114.7	86.0	82.0
85°	60.7	62.0	80.0	83.4	76.7	67.4	83.4	88.0	80.0	56.0	54.0
87.5°	28.7	28.7	40.7	38.0	34.7	28.0	38.0	44.7	45.4	27.3	26.7
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)