

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: P316648

Luminaire Tested: **GAN-SA4C-830-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23818 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

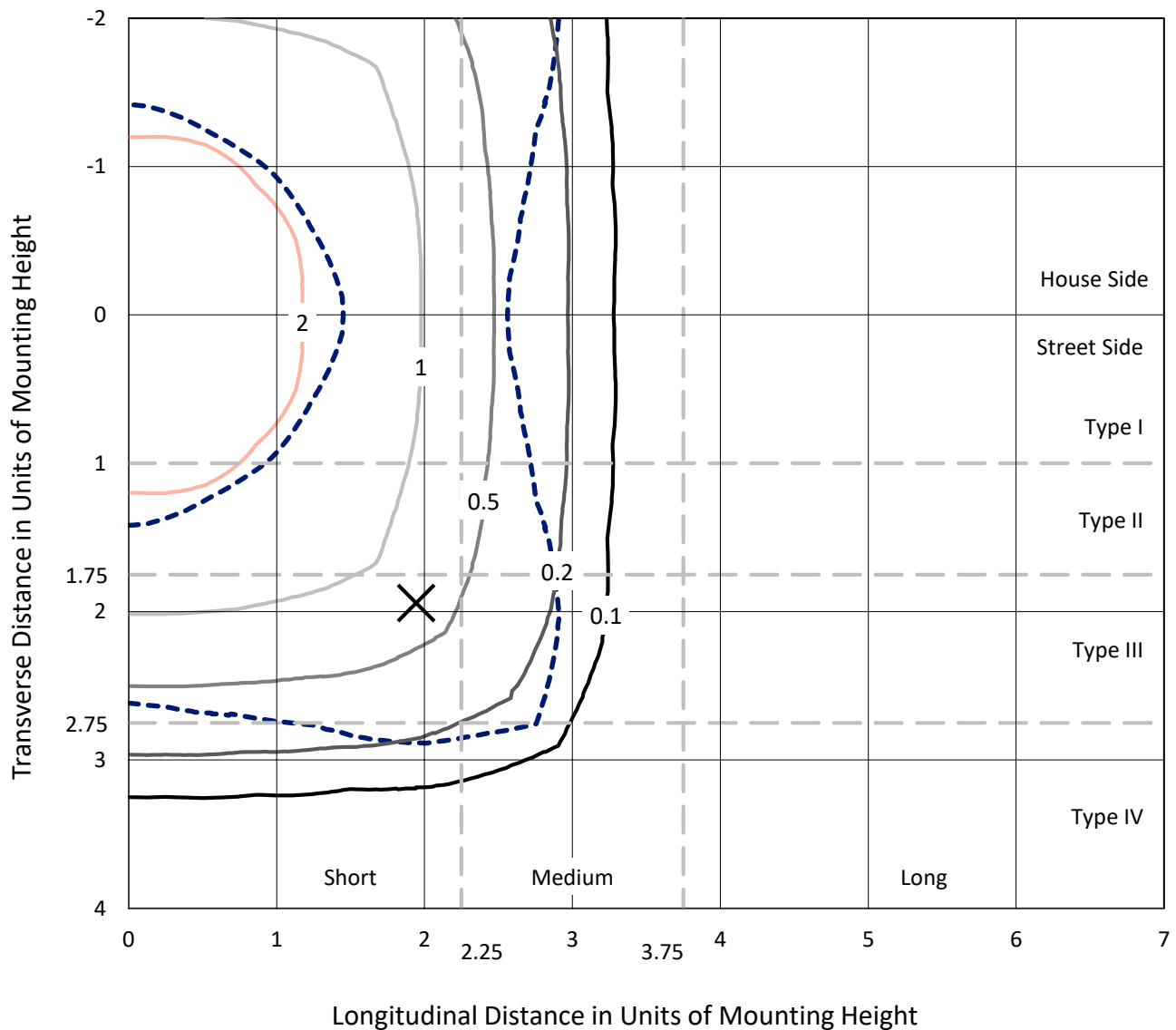
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

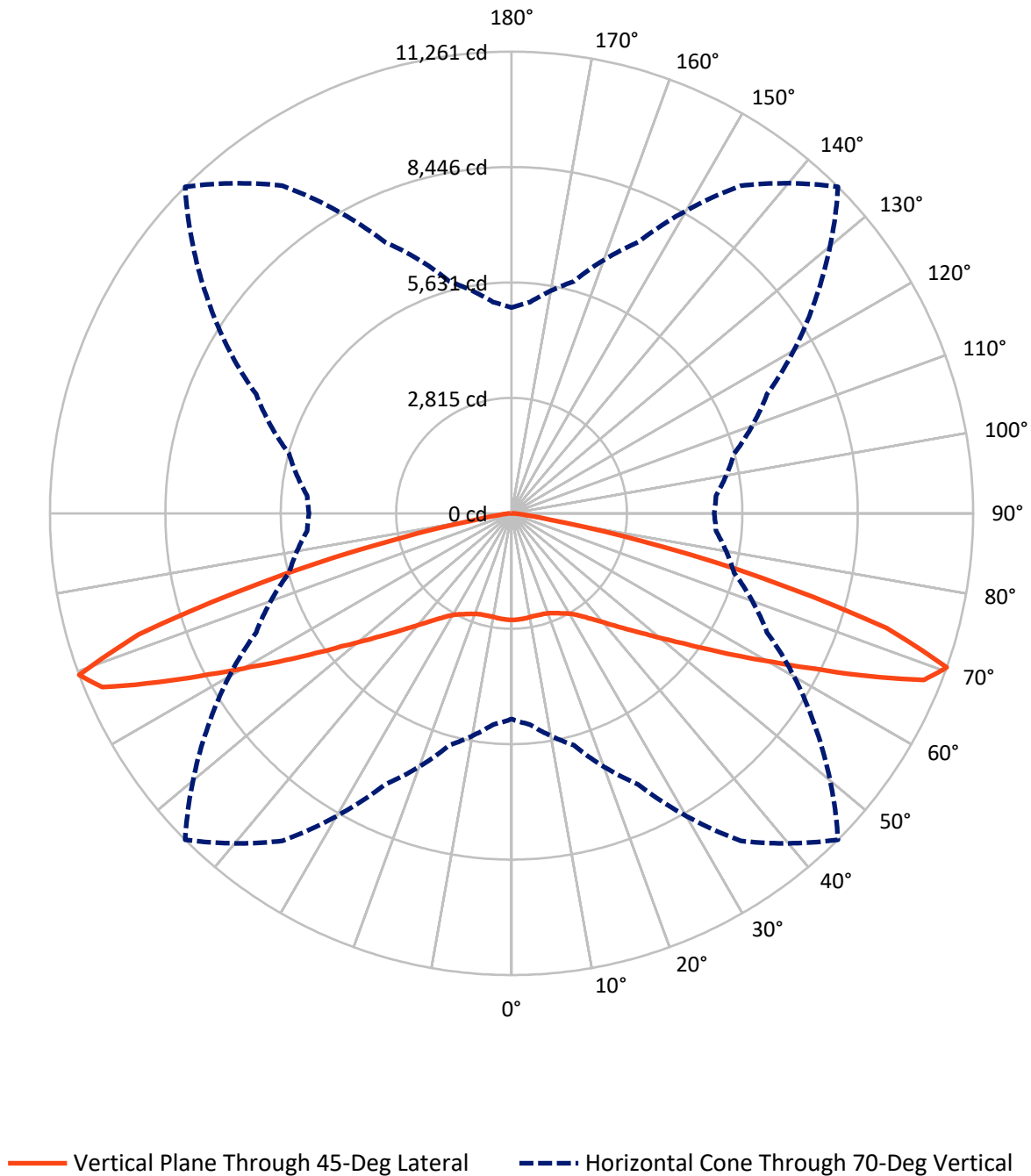
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	11909.0	0.0	11909.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11909.0	0.0	11909.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23818.0	0.0	23818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.0
10°-20°	723.3	3.0
20°-30°	1231.3	5.2
30°-40°	1952.8	8.2
40°-50°	3177.7	13.3
50°-60°	5239.5	22.0
60°-70°	7691.8	32.3
70°-80°	3401.3	14.3
80°-90°	154.0	0.6
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°	23818.0	100.0
0°-180°	23818.0	100.0

Coefficient of Utilization



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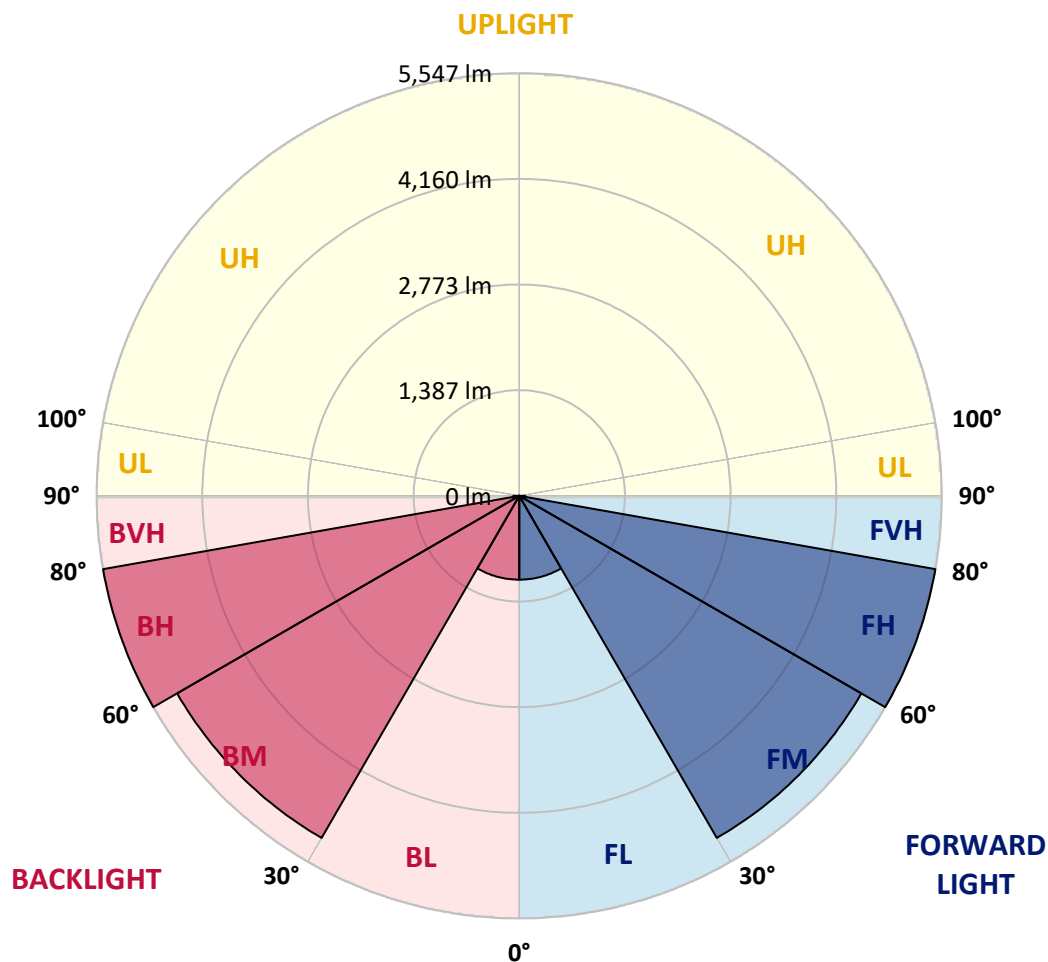
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1100.5	4.6			
FM	(30°-60°)	5185.0	21.8			
FH	(60°-80°)	5546.5	23.3			G3/7500
FVH	(80°-90°)	77.0	0.3			G1/100
BL	(0°-30°)	1100.5	4.6	B3/2500		
BM	(30°-60°)	5185.0	21.8	B4/8500		
BH	(60°-80°)	5546.5	23.3	B5		G3/7500
BVH	(80°-90°)	77.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3
2.5°	2597.4	2595.0	2600.5	2599.7	2595.0	2595.8	2595.8	2598.1	2598.1	2596.6	2596.6
5°	2587.9	2586.3	2592.6	2592.6	2587.9	2589.5	2591.0	2593.4	2592.6	2591.0	2590.3
7.5°	2576.1	2575.3	2581.6	2581.6	2578.4	2580.0	2578.4	2579.2	2577.6	2576.1	2573.7
10°	2556.4	2557.9	2563.5	2565.0	2565.0	2565.8	2564.2	2560.3	2557.9	2555.6	2553.2
12.5°	2538.2	2537.4	2545.3	2549.3	2555.6	2562.7	2557.9	2546.9	2542.2	2537.4	2535.9
15°	2526.4	2527.2	2535.1	2542.2	2553.2	2568.2	2562.7	2545.3	2535.9	2530.4	2528.8
17.5°	2524.0	2525.6	2535.9	2548.5	2560.3	2576.9	2573.7	2556.4	2540.6	2530.4	2528.0
20°	2529.6	2530.4	2546.1	2564.2	2584.7	2600.5	2593.4	2574.5	2553.2	2537.4	2533.5
22.5°	2539.8	2543.0	2562.7	2591.0	2622.6	2643.9	2635.2	2602.9	2569.8	2550.1	2544.5
25°	2572.1	2572.9	2599.7	2638.3	2676.2	2700.6	2690.4	2644.7	2602.1	2580.0	2572.9
27.5°	2639.1	2641.5	2668.3	2713.2	2745.5	2761.3	2755.0	2718.0	2681.7	2658.1	2660.4
30°	2736.1	2739.2	2769.2	2818.9	2838.6	2842.5	2840.9	2823.6	2790.5	2759.0	2761.3
32.5°	2854.3	2855.9	2896.1	2941.0	2956.8	2960.0	2956.8	2941.0	2901.6	2859.1	2861.4
35°	3006.5	3011.2	3049.8	3093.2	3105.8	3112.1	3106.6	3086.1	3045.1	3003.3	3001.7
37.5°	3194.1	3194.9	3235.1	3280.0	3295.8	3297.3	3291.0	3277.6	3226.4	3188.6	3186.2
40°	3411.6	3414.8	3462.1	3510.2	3516.5	3509.4	3518.1	3510.2	3457.4	3414.0	3421.1
42.5°	3676.5	3683.6	3740.3	3787.6	3769.5	3765.6	3771.1	3773.5	3730.9	3678.1	3673.3
45°	3984.7	3991.0	4062.0	4099.8	4088.0	4062.0	4073.0	4091.9	4032.8	3967.4	3973.7
47.5°	4336.3	4352.0	4427.7	4463.2	4434.0	4398.6	4419.8	4448.2	4378.8	4297.7	4293.7
50°	4727.3	4747.0	4847.9	4897.5	4868.4	4802.9	4838.4	4857.3	4757.2	4652.4	4643.7
52.5°	5144.3	5164.0	5290.9	5393.4	5374.4	5272.7	5322.4	5302.7	5187.6	5046.5	5035.5
55°	5616.4	5624.3	5761.5	5927.0	5945.9	5871.0	5867.9	5835.6	5665.3	5502.1	5494.3
57.5°	6102.0	6107.5	6284.9	6480.4	6569.5	6569.5	6481.2	6412.6	6186.4	5997.2	5977.5
60°	6626.2	6645.9	6842.2	7107.8	7315.9	7377.4	7221.4	7034.5	6788.6	6557.6	6534.8
62.5°	7092.9	7115.7	7416.1	7811.8	8146.0	8369.9	7988.3	7684.1	7236.3	6865.8	6822.5
65°	7152.0	7213.5	7651.0	8367.5	9115.6	9562.5	8831.0	8081.4	7265.5	6750.8	6706.6
67.5°	6531.6	6635.7	7226.9	8342.3	9888.1	10847.4	9369.4	7854.3	6742.1	6173.0	6124.1
70°	5018.9	5170.3	5852.1	7297.0	9754.9	11261.2	9032.0	6876.1	5621.2	5008.7	4940.1
72.5°	2753.4	2815.7	3429.0	4996.9	7820.4	9569.6	7533.5	5084.4	3727.7	3033.3	2918.2
75°	873.4	895.5	1207.6	2044.8	4423.8	6338.5	4785.6	2495.7	1374.0	1012.9	1001.1
77.5°	387.8	390.2	436.7	596.7	1523.7	3211.4	1830.4	679.5	468.2	409.1	422.5
80°	245.2	245.2	270.4	295.6	414.6	932.5	495.0	323.2	275.9	256.2	261.7
82.5°	117.5	130.1	175.8	189.2	227.8	313.7	253.8	211.3	184.5	137.2	127.7
85°	77.3	64.6	111.1	125.3	132.4	150.6	147.4	139.5	120.6	68.6	76.5
87.5°	34.7	33.1	57.5	52.8	49.7	37.8	56.8	70.2	67.8	33.9	33.9
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)