

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: P316639

Luminaire Tested: **GAN-SA5B-830-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316639
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-SA5B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23842 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

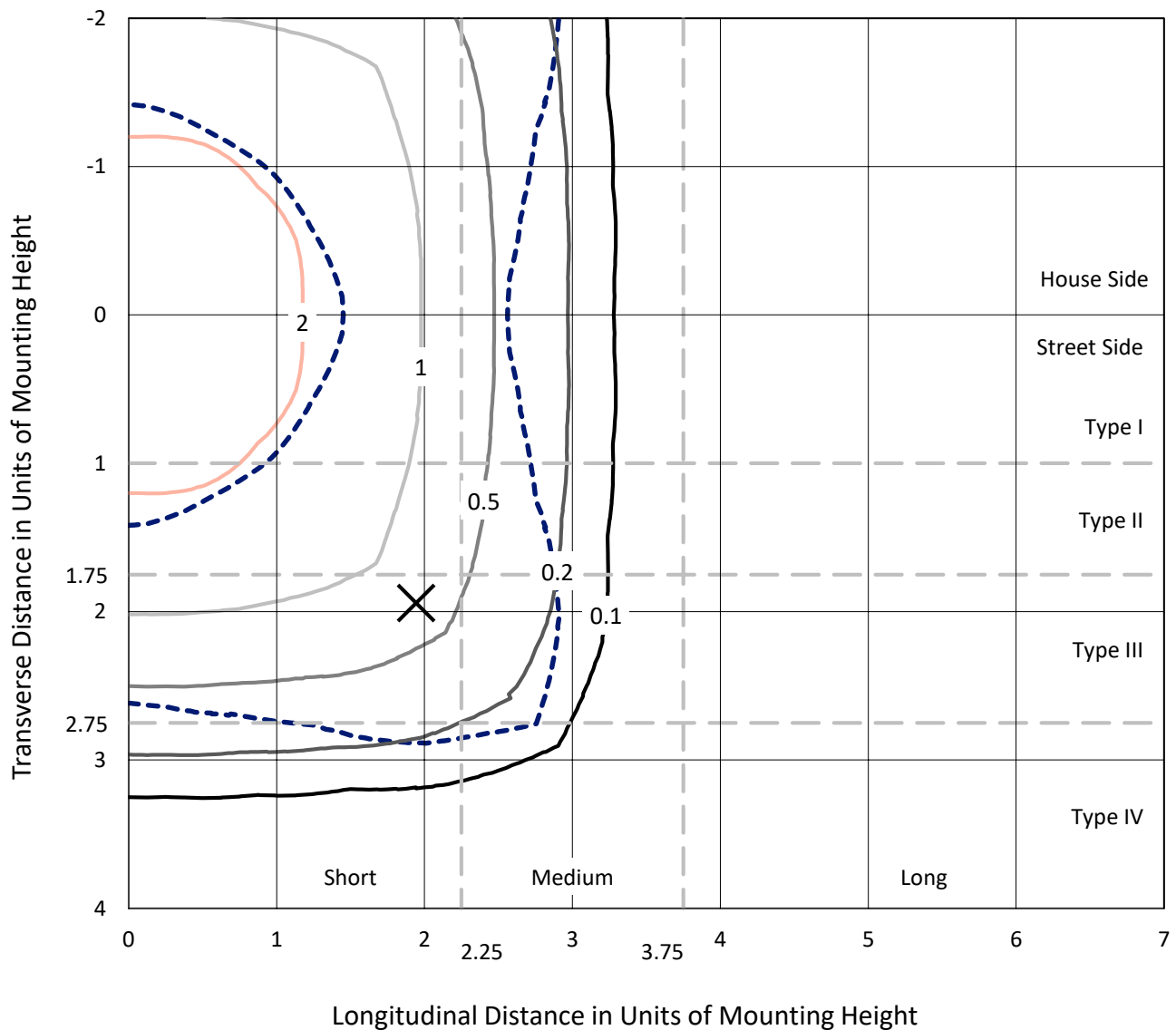
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

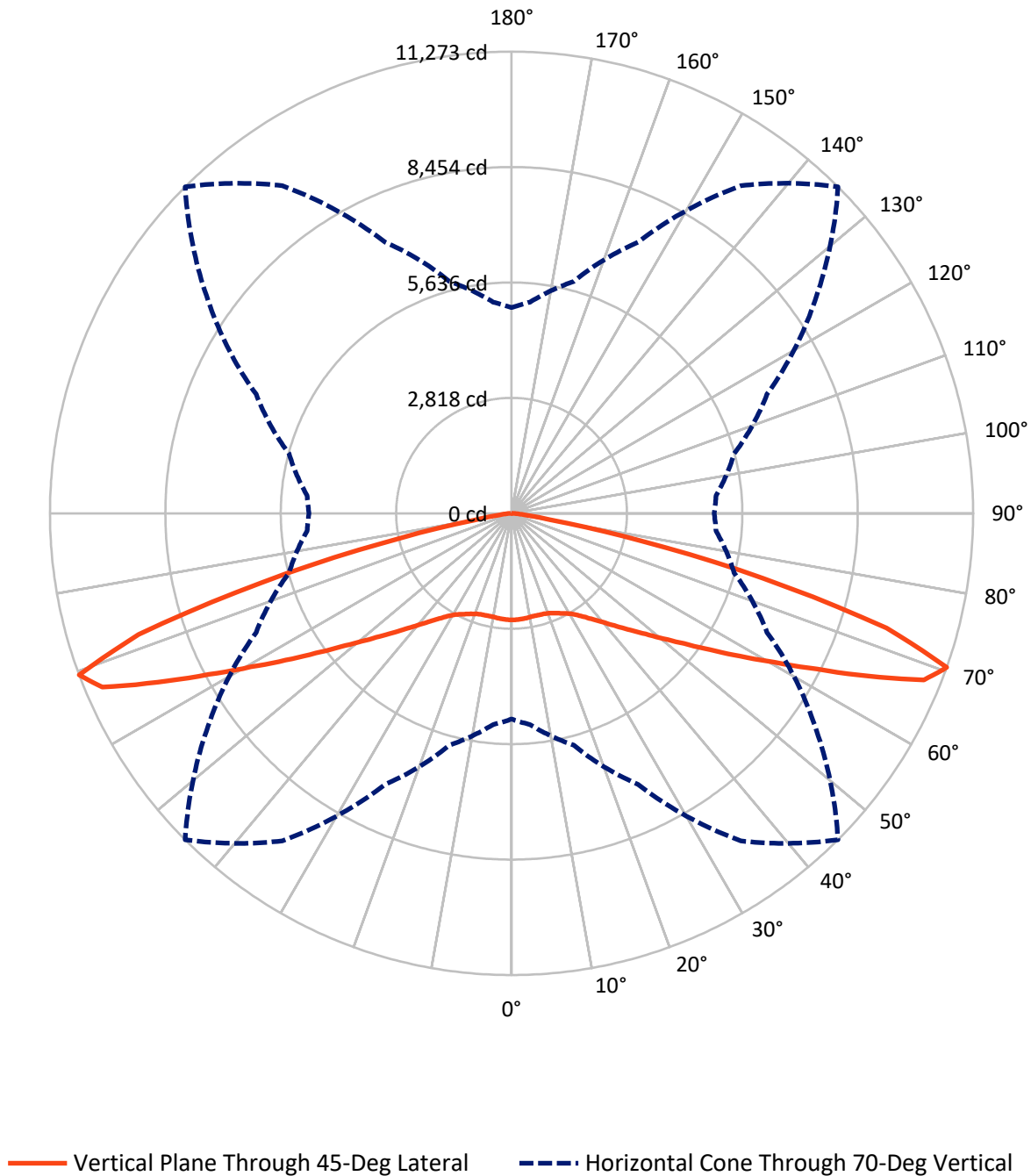
× Max cd
- - - 1/2 Max cd



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	11921.0	0.0	11921.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11921.0	0.0	11921.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23842.0	0.0	23842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	1.0
10°-20°	724.0	3.0
20°-30°	1232.5	5.2
30°-40°	1954.7	8.2
40°-50°	3180.9	13.3
50°-60°	5244.8	22.0
60°-70°	7699.5	32.3
70°-80°	3404.7	14.3
80°-90°	154.2	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°	23842.0	100.0
0°-180°	23842.0	100.0

Coefficient of Utilization



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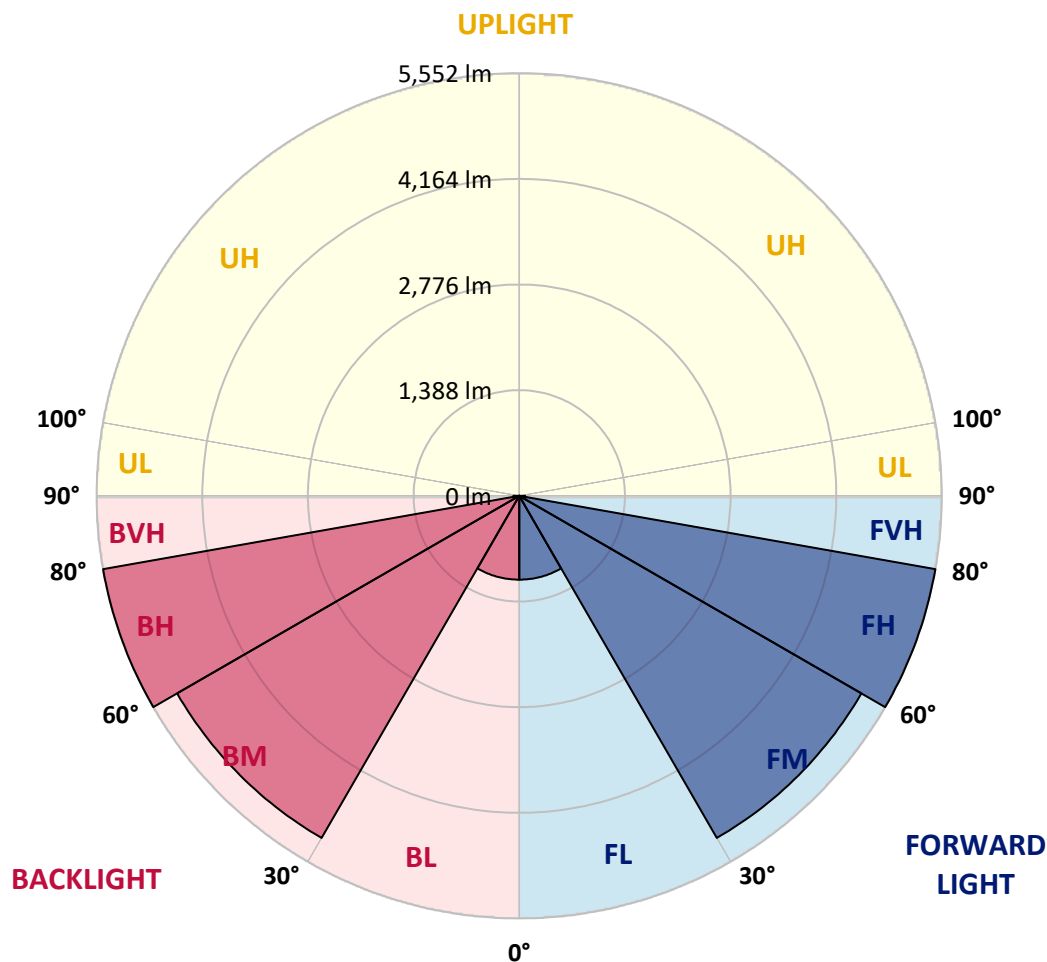
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.6	4.6			
FM	(30°-60°)	5190.2	21.8			
FH	(60°-80°)	5552.1	23.3			G3/7500
FVH	(80°-90°)	77.1	0.3			G1/100
BL	(0°-30°)	1101.6	4.6	B3/2500		
BM	(30°-60°)	5190.2	21.8	B4/8500		
BH	(60°-80°)	5552.1	23.3	B5		G3/7500
BVH	(80°-90°)	77.1	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°	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9
2.5°	2600.0	2597.6	2603.1	2602.3	2597.6	2598.4	2598.4	2600.8	2600.8	2599.2	2599.2
5°	2590.5	2588.9	2595.2	2595.2	2590.5	2592.1	2593.7	2596.0	2595.2	2593.7	2592.9
7.5°	2578.7	2577.9	2584.2	2584.2	2581.0	2582.6	2581.0	2581.8	2580.2	2578.7	2576.3
10°	2558.9	2560.5	2566.0	2567.6	2567.6	2568.4	2566.8	2562.9	2560.5	2558.2	2555.8
12.5°	2540.8	2540.0	2547.9	2551.8	2558.2	2565.3	2560.5	2549.5	2544.7	2540.0	2538.4
15°	2529.0	2529.7	2537.6	2544.7	2555.8	2570.8	2565.3	2547.9	2538.4	2532.9	2531.3
17.5°	2526.6	2528.2	2538.4	2551.1	2562.9	2579.5	2576.3	2558.9	2543.2	2532.9	2530.5
20°	2532.1	2532.9	2548.7	2566.8	2587.3	2603.1	2596.0	2577.1	2555.8	2540.0	2536.1
22.5°	2542.4	2545.5	2565.3	2593.7	2625.2	2646.5	2637.8	2605.5	2572.4	2552.6	2547.1
25°	2574.7	2575.5	2602.3	2641.0	2678.9	2703.3	2693.1	2647.3	2604.7	2582.6	2575.5
27.5°	2641.8	2644.2	2671.0	2716.0	2748.3	2764.1	2757.8	2720.7	2684.4	2660.7	2663.1
30°	2738.8	2742.0	2772.0	2821.7	2841.4	2845.4	2843.8	2826.4	2793.3	2761.7	2764.1
32.5°	2857.2	2858.8	2899.0	2944.0	2959.8	2962.9	2959.8	2944.0	2904.6	2861.9	2864.3
35°	3009.5	3014.2	3052.9	3096.3	3108.9	3115.2	3109.7	3089.2	3048.2	3006.3	3004.8
37.5°	3197.3	3198.1	3238.3	3283.3	3299.1	3300.7	3294.4	3280.9	3229.6	3191.8	3189.4
40°	3415.1	3418.2	3465.6	3513.7	3520.0	3512.9	3521.6	3513.7	3460.8	3417.4	3424.5
42.5°	3680.2	3687.3	3744.1	3791.5	3773.3	3769.4	3774.9	3777.3	3734.6	3681.8	3677.0
45°	3988.7	3995.0	4066.1	4103.9	4092.1	4066.1	4077.1	4096.0	4036.9	3971.4	3977.7
47.5°	4340.7	4356.4	4432.2	4467.7	4438.5	4403.0	4424.3	4452.7	4383.3	4302.0	4298.0
50°	4732.0	4751.8	4852.8	4902.5	4873.3	4807.8	4843.3	4862.2	4762.0	4657.1	4648.4
52.5°	5149.4	5169.2	5296.2	5398.8	5379.9	5278.1	5327.8	5308.0	5192.8	5051.6	5040.6
55°	5622.1	5630.0	5767.3	5933.0	5951.9	5877.0	5873.8	5841.5	5671.0	5507.7	5499.8
57.5°	6108.2	6113.7	6291.2	6486.9	6576.1	6576.1	6487.7	6419.1	6192.6	6003.2	5983.5
60°	6632.9	6652.6	6849.1	7115.0	7323.3	7384.9	7228.6	7041.6	6795.4	6564.2	6541.4
62.5°	7100.0	7122.9	7423.5	7819.6	8154.2	8378.3	7996.4	7691.8	7243.6	6872.8	6829.4
65°	7159.2	7220.7	7658.7	8375.9	9124.8	9572.2	8839.9	8089.5	7272.8	6757.6	6713.4
67.5°	6538.2	6642.4	7234.2	8350.7	9898.0	10858.3	9378.8	7862.3	6748.9	6179.2	6130.3
70°	5024.0	5175.5	5858.0	7304.4	9764.7	11272.6	9041.1	6883.0	5626.8	5013.7	4945.1
72.5°	2756.2	2818.5	3432.4	5001.9	7828.3	9579.3	7541.1	5089.5	3731.5	3036.3	2921.1
75°	874.3	896.4	1208.8	2046.8	4428.2	6344.9	4790.4	2498.2	1375.3	1013.9	1002.1
77.5°	388.2	390.6	437.1	597.3	1525.3	3214.7	1832.2	680.2	468.7	409.5	422.9
80°	245.4	245.4	270.6	295.9	415.0	933.5	495.5	323.5	276.2	256.4	262.0
82.5°	117.6	130.2	176.0	189.4	228.0	314.0	254.1	211.5	184.6	137.3	127.8
85°	77.3	64.7	111.3	125.5	132.6	150.7	147.6	139.7	120.7	68.6	76.5
87.5°	34.7	33.1	57.6	52.9	49.7	37.9	56.8	70.2	67.9	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)