

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: P316321

Luminaire Tested: **GAN-SA7B-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316321
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-SA7B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 33832 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

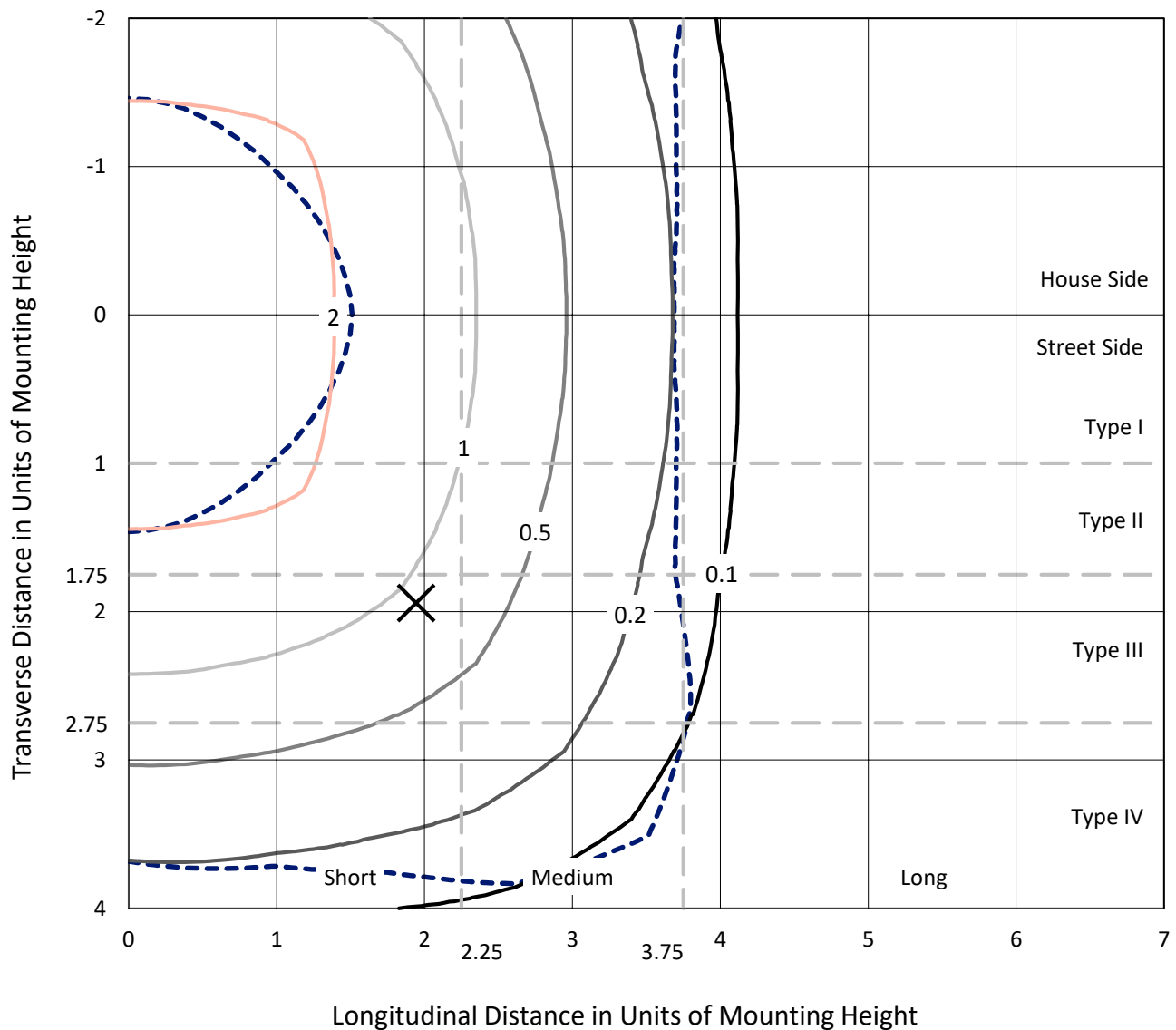
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

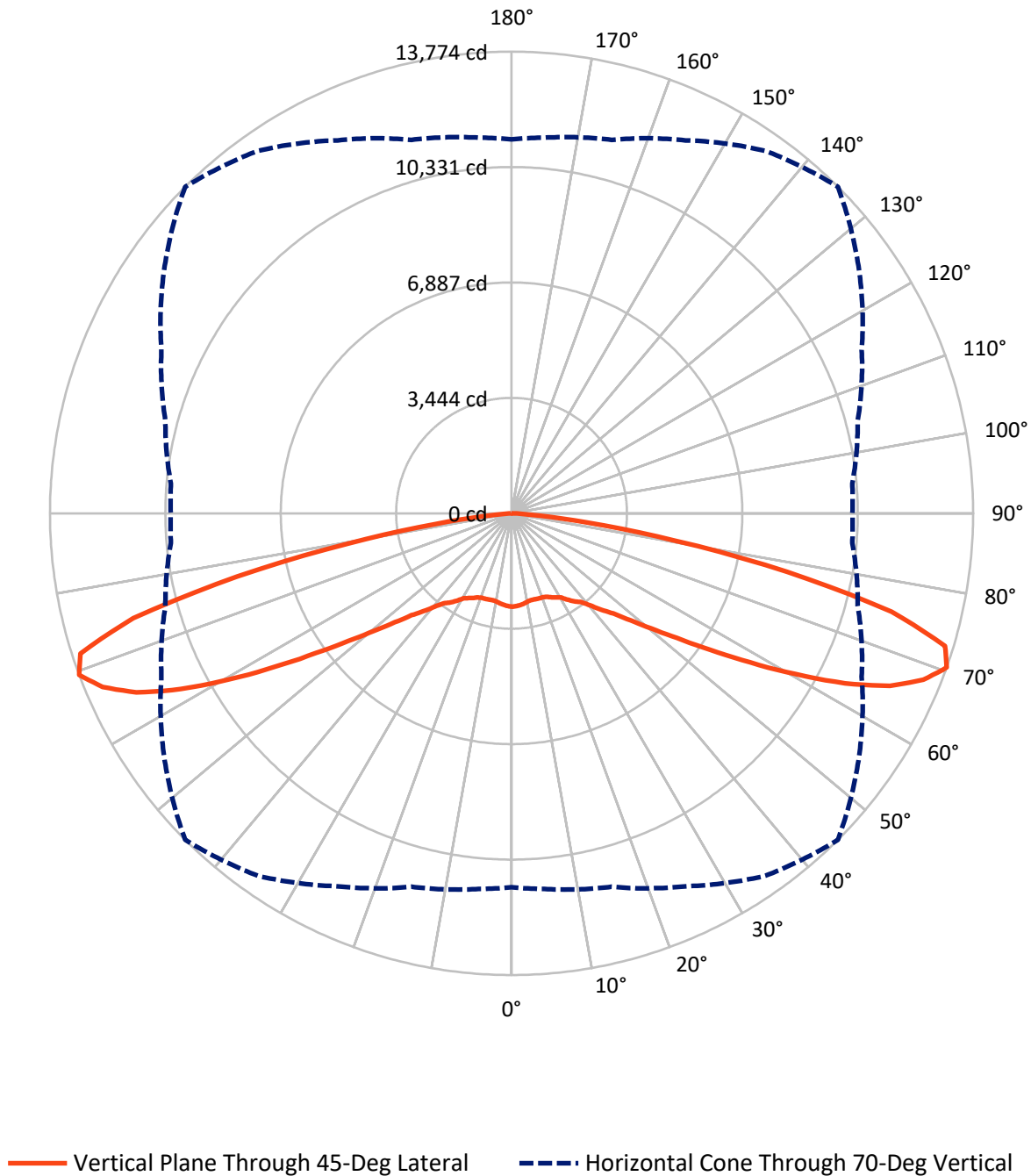
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16916.0	0.0	16916.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16916.0	0.0	16916.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33832.0	0.0	33832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	0.8
10°-20°	759.1	2.2
20°-30°	1294.2	3.8
30°-40°	2022.3	6.0
40°-50°	3427.3	10.1
50°-60°	6250.0	18.5
60°-70°	10759.8	31.8
70°-80°	8433.9	24.9
80°-90°	625.4	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°	33832.0	100.0
0°-180°	33832.0	100.0

Coefficient of Utilization



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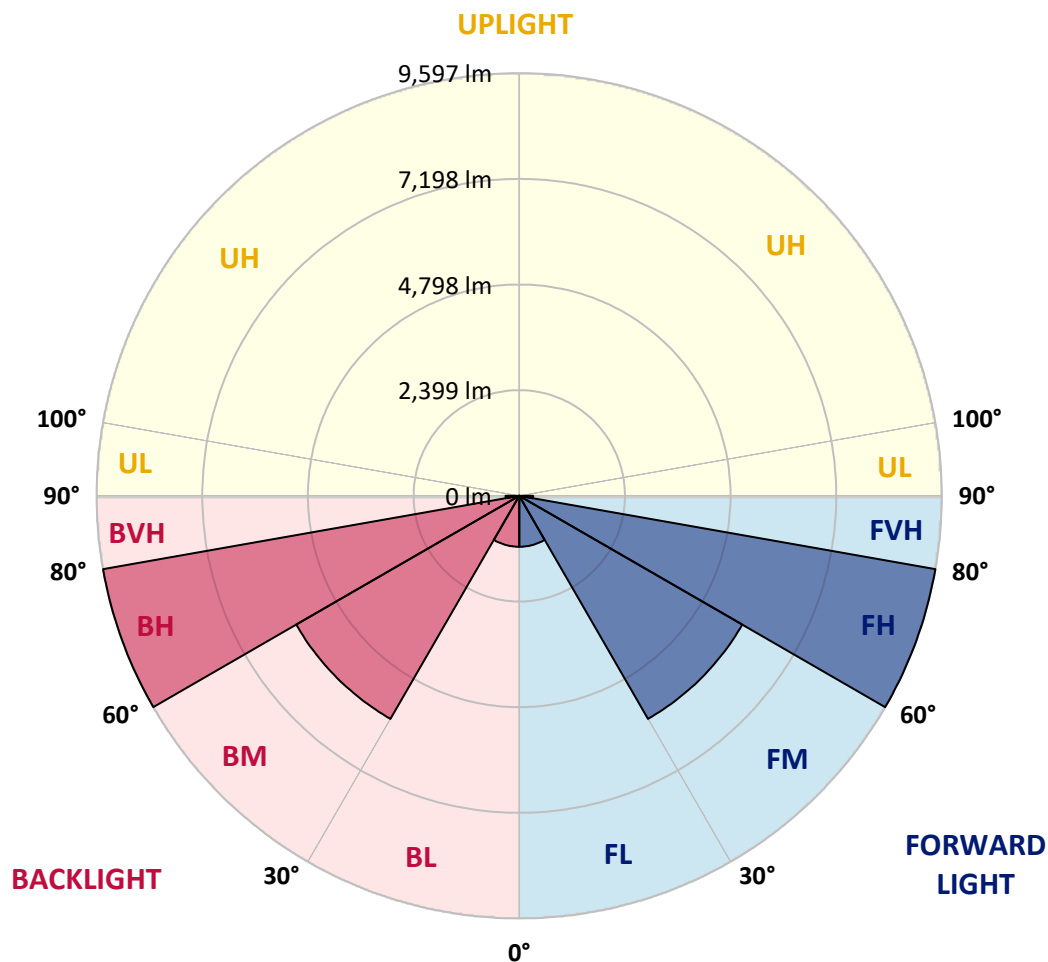
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1156.6	3.4			
FM	(30°-60°)	5849.8	17.3			
FH	(60°-80°)	9596.9	28.4			G4/12000
FVH	(80°-90°)	312.7	0.9			G3/500
BL	(0°-30°)	1156.6	3.4	B3/2500		
BM	(30°-60°)	5849.8	17.3	B4/8500		
BH	(60°-80°)	9596.9	28.4	B5		G4/12000
BVH	(80°-90°)	312.7	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°	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4
2.5°	2772.1	2775.4	2772.1	2774.3	2768.7	2770.9	2770.9	2770.9	2769.8	2770.9	2768.7
5°	2747.4	2749.7	2745.2	2747.4	2744.1	2747.4	2748.6	2747.4	2745.2	2746.3	2741.9
7.5°	2710.5	2712.8	2709.4	2712.8	2708.3	2713.9	2712.8	2709.4	2706.0	2706.0	2701.6
10°	2690.4	2691.5	2682.5	2679.2	2669.1	2671.3	2674.7	2678.1	2681.4	2688.1	2687.0
12.5°	2691.5	2691.5	2678.1	2663.5	2649.0	2652.3	2657.9	2670.2	2683.7	2696.0	2697.1
15°	2702.7	2701.6	2681.4	2657.9	2647.8	2657.9	2661.3	2669.1	2690.4	2711.6	2712.8
17.5°	2710.5	2710.5	2679.2	2652.3	2651.2	2666.9	2665.8	2669.1	2692.6	2723.9	2725.1
20°	2725.1	2725.1	2684.8	2655.7	2655.7	2672.5	2673.6	2679.2	2702.7	2737.4	2743.0
22.5°	2757.5	2758.6	2716.1	2692.6	2694.8	2704.9	2708.3	2717.2	2738.5	2776.5	2783.3
25°	2803.4	2805.6	2762.0	2748.6	2756.4	2775.4	2773.2	2779.9	2803.4	2840.3	2847.0
27.5°	2867.2	2861.6	2821.3	2815.7	2823.5	2837.0	2835.9	2837.0	2856.0	2889.6	2897.4
30°	2950.0	2947.8	2918.7	2922.0	2918.7	2914.2	2915.3	2924.3	2934.3	2961.2	2969.0
32.5°	3030.6	3032.8	3014.9	3031.7	3056.3	3073.1	3047.4	3022.8	3011.6	3026.1	3032.8
35°	3176.1	3181.7	3153.7	3142.5	3176.1	3225.3	3152.6	3112.3	3134.7	3153.7	3159.3
37.5°	3423.4	3426.8	3379.8	3335.0	3310.4	3357.4	3284.6	3288.0	3366.3	3402.1	3401.0
40°	3705.4	3706.5	3675.2	3636.0	3593.5	3604.7	3575.6	3584.6	3636.0	3668.5	3677.4
42.5°	4041.2	4037.8	3988.6	3932.6	3920.3	3931.5	3882.2	3875.5	3934.8	3993.0	3994.2
45°	4476.5	4468.7	4404.9	4343.3	4284.0	4259.4	4247.1	4279.5	4361.2	4414.9	4416.1
47.5°	4945.4	4924.1	4890.6	4841.3	4789.8	4765.2	4745.1	4760.7	4820.1	4841.3	4843.6
50°	5427.7	5432.2	5438.9	5419.9	5400.9	5393.1	5340.5	5310.2	5328.1	5289.0	5283.4
52.5°	5999.6	6008.6	6073.5	6128.3	6160.8	6177.6	6078.0	5973.9	5915.7	5839.6	5817.2
55°	6674.5	6689.0	6784.1	6936.3	7093.0	7175.8	6995.6	6800.9	6620.7	6478.6	6432.7
57.5°	7426.5	7452.2	7583.2	7875.3	8196.5	8392.3	8087.9	7734.3	7386.2	7181.4	7145.6
60°	8308.4	8333.0	8514.3	8932.8	9453.2	9747.6	9286.5	8707.9	8274.8	8078.9	8012.9
62.5°	9358.1	9360.3	9583.1	10072.1	10759.2	11168.8	10544.4	9771.1	9324.5	9088.4	9024.6
65°	10487.3	10492.9	10723.4	11251.7	11962.3	12407.7	11702.7	10896.9	10350.8	10002.7	9953.5
67.5°	11285.2	11308.7	11551.6	12187.3	12852.0	13253.8	12524.1	11613.1	10982.0	10566.8	10525.4
70°	11157.7	11249.4	11534.8	12276.8	13201.2	13774.2	12657.3	11528.1	10695.5	10205.3	10170.6
72.5°	9730.8	9906.5	10287.0	11260.6	12739.0	13528.0	11931.0	10325.0	9382.7	8965.3	8902.6
75°	6626.3	6911.7	7485.8	8890.3	10883.5	11712.7	10044.1	8232.3	7345.9	6768.5	6725.9
77.5°	2954.5	3019.4	3746.8	5364.0	7510.4	8411.3	7297.8	5385.2	4042.3	3224.2	3051.8
80°	823.7	833.7	1112.4	1997.6	3759.1	4942.0	4035.6	2098.4	1179.6	831.5	783.4
82.5°	261.9	284.3	346.9	518.2	1263.5	2255.0	1297.1	559.6	398.4	317.8	286.5
85°	127.6	126.5	175.7	210.4	322.3	499.1	343.6	259.6	227.2	151.1	136.5
87.5°	53.7	54.8	81.7	73.9	94.0	80.6	110.8	116.4	122.0	67.1	58.2
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)