

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: P317039

Luminaire Tested: **GAN-SA5B-727-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317039
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-SA5B-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24415 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

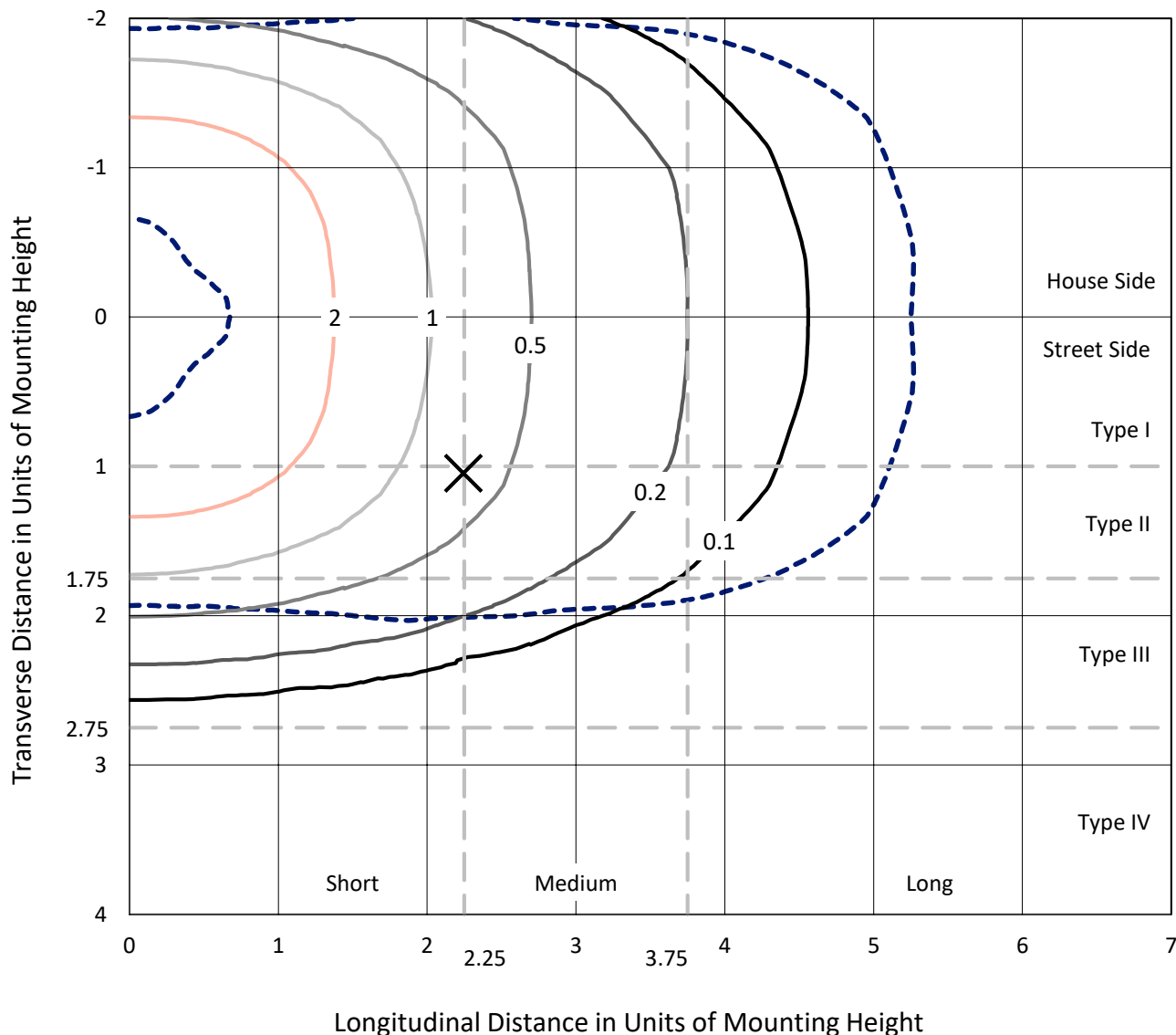
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

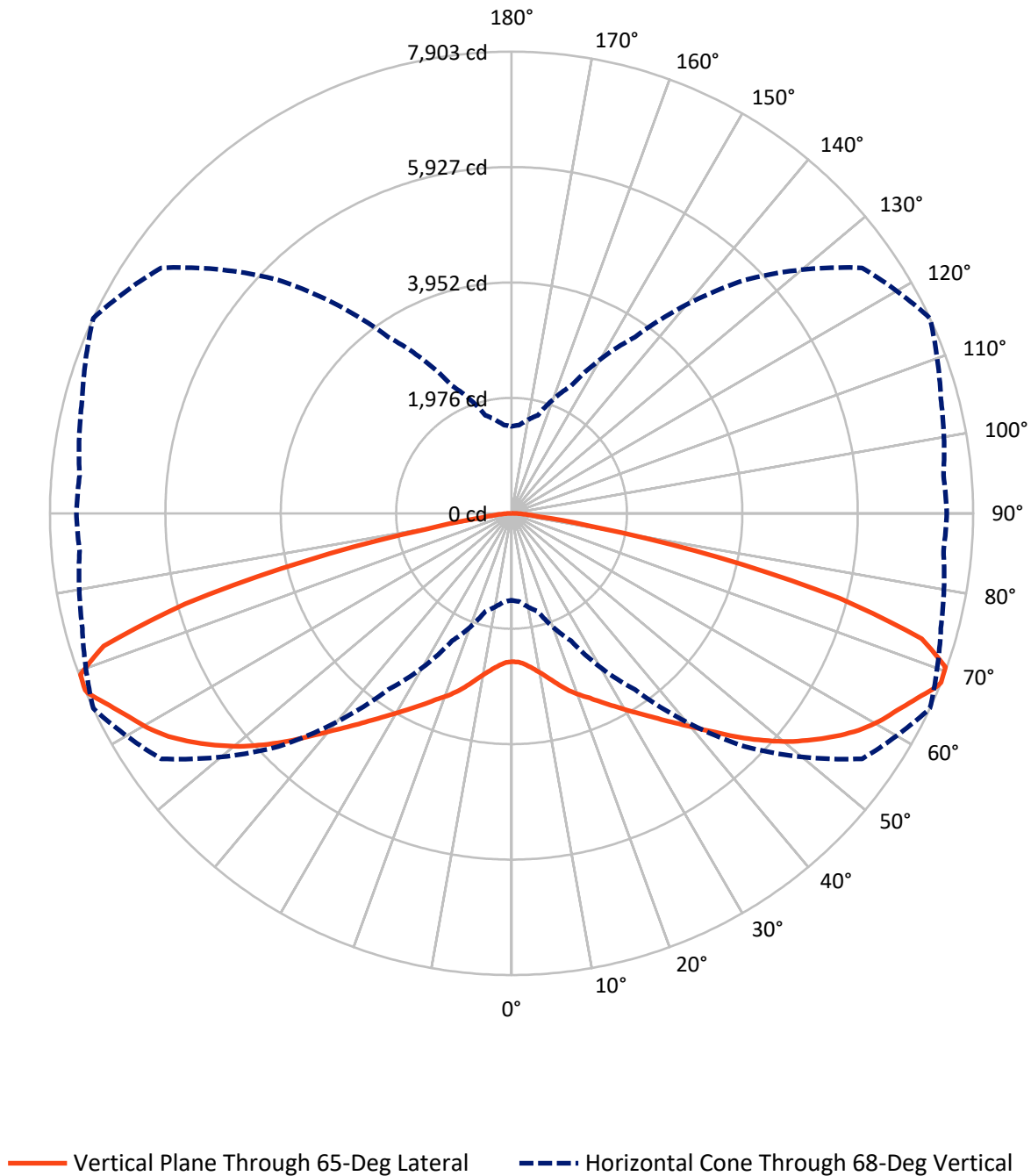
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	12207.5	0.0	12207.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12207.5	0.0	12207.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24415.0	0.0	24415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	1.0
10°-20°	832.2	3.4
20°-30°	1622.6	6.6
30°-40°	2725.9	11.2
40°-50°	4295.1	17.6
50°-60°	5743.9	23.5
60°-70°	5583.8	22.9
70°-80°	3052.4	12.5
80°-90°	310.4	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°	24415.0	100.0
0°-180°	24415.0	100.0

Coefficient of Utilization



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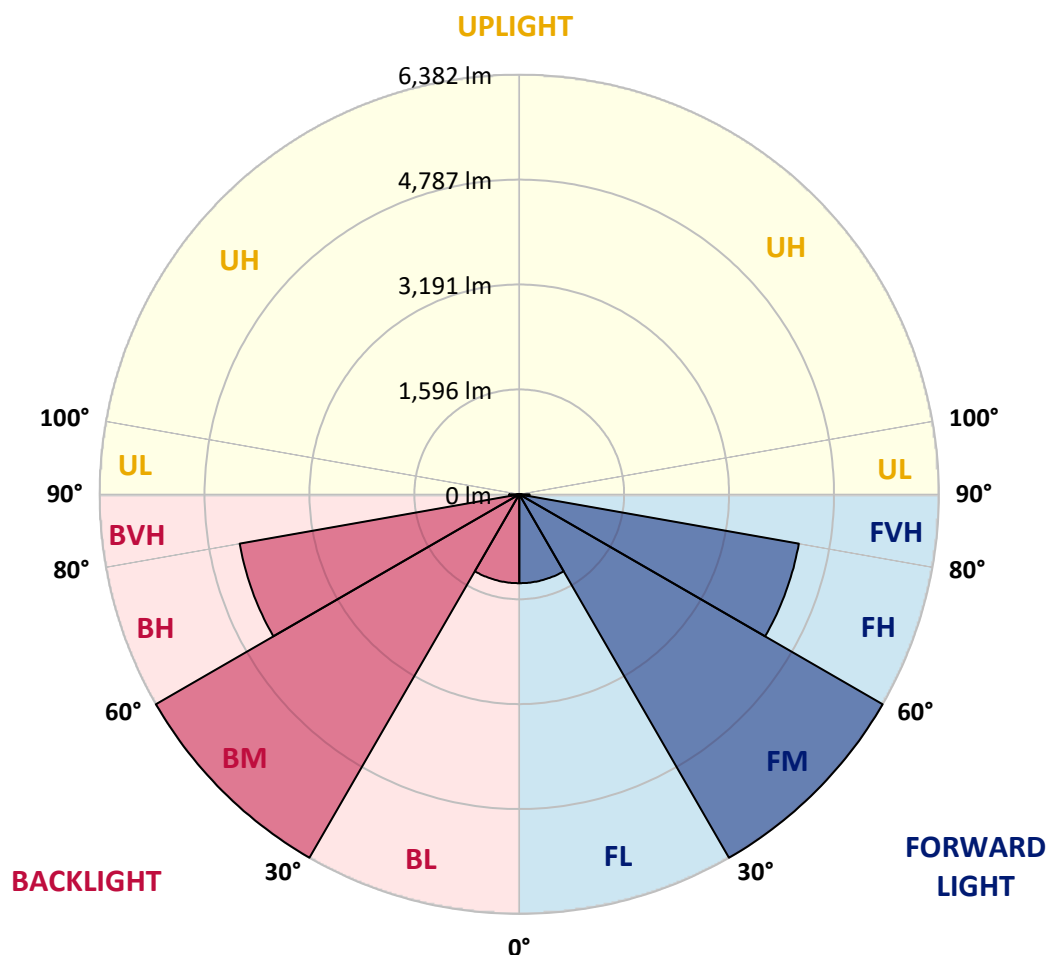
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1351.7	5.5			
FM	(30°-60°)	6382.5	26.1			
FH	(60°-80°)	4318.1	17.7			G2/5000
FVH	(80°-90°)	155.2	0.6			G2/225
BL	(0°-30°)	1351.7	5.5	B3/2500		
BM	(30°-60°)	6382.5	26.1	B4/8500		
BH	(60°-80°)	4318.1	17.7	B4/5000		G4/5000
BVH	(80°-90°)	155.2	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°	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6
2.5°	2520.6	2521.4	2525.5	2530.4	2534.5	2545.1	2547.6	2551.7	2553.3	2557.4	2557.4
5°	2498.5	2500.1	2509.9	2523.0	2537.8	2564.0	2582.8	2604.1	2614.7	2626.2	2625.4
7.5°	2496.0	2500.1	2514.0	2535.3	2559.9	2603.3	2642.6	2685.1	2713.8	2740.0	2738.3
10°	2521.4	2527.9	2547.6	2579.5	2616.4	2670.4	2728.5	2785.8	2835.7	2875.9	2877.5
12.5°	2559.9	2568.1	2599.2	2647.5	2703.1	2772.7	2841.5	2906.2	2974.9	3034.7	3039.6
15°	2610.6	2621.3	2667.9	2740.0	2825.1	2907.8	2981.5	3047.8	3127.2	3209.9	3218.1
17.5°	2685.9	2700.7	2762.1	2859.5	2971.6	3062.5	3139.5	3189.4	3255.7	3340.8	3356.4
20°	2800.5	2819.4	2897.1	3013.4	3150.1	3245.1	3304.0	3314.7	3347.4	3423.5	3441.5
22.5°	2949.5	2965.9	3052.7	3191.0	3344.1	3447.3	3478.4	3435.8	3432.5	3493.9	3511.1
25°	3115.7	3130.5	3231.2	3386.7	3551.2	3665.0	3664.2	3581.5	3524.2	3571.7	3589.7
27.5°	3302.4	3325.3	3421.9	3585.6	3761.6	3873.8	3867.2	3739.5	3630.6	3642.9	3658.5
30°	3516.9	3542.2	3636.4	3802.6	3978.6	4088.3	4080.1	3911.4	3747.7	3715.0	3726.4
32.5°	3782.9	3813.2	3902.4	4066.2	4221.7	4320.8	4297.0	4098.1	3888.5	3817.3	3827.9
35°	4103.0	4121.0	4215.1	4376.4	4502.5	4570.4	4520.5	4314.2	4067.0	3981.0	3981.0
37.5°	4427.2	4441.1	4546.7	4703.1	4825.0	4861.1	4763.6	4550.8	4300.3	4178.3	4180.8
40°	4738.3	4775.9	4894.6	5055.1	5175.4	5185.2	5055.9	4820.9	4559.8	4433.7	4448.5
42.5°	5063.3	5100.1	5241.7	5423.5	5529.9	5546.2	5394.8	5123.8	4852.9	4750.5	4766.9
45°	5353.1	5382.5	5546.2	5757.5	5890.1	5932.6	5753.4	5470.9	5169.7	5069.8	5073.9
47.5°	5555.3	5593.7	5773.8	6022.7	6215.9	6281.4	6105.4	5809.0	5481.6	5360.4	5371.1
50°	5738.6	5759.1	5941.6	6213.4	6459.0	6594.1	6443.5	6143.0	5796.8	5668.2	5679.7
52.5°	5841.0	5867.2	6044.0	6327.2	6617.8	6835.6	6743.9	6443.5	6101.3	5976.0	5989.9
55°	5769.7	5789.4	6001.4	6352.6	6716.1	6984.6	6998.5	6737.4	6400.1	6290.4	6329.7
57.5°	5445.6	5470.1	5728.8	6188.9	6728.4	7085.3	7190.1	7010.0	6679.2	6590.0	6612.9
60°	4938.8	4954.4	5230.3	5747.6	6489.3	7127.0	7312.0	7232.6	6952.7	6863.4	6894.5
62.5°	4035.9	4058.8	4388.7	5082.1	5984.2	7003.4	7429.9	7416.8	7207.3	7125.4	7153.2
65°	2758.8	2798.9	3164.0	4040.8	5205.7	6625.2	7537.2	7631.3	7432.4	7329.2	7366.1
67.5°	1665.9	1695.4	1959.8	2667.9	3983.5	5862.2	7426.7	7875.3	7591.2	7425.0	7455.3
68°	1489.1	1516.1	1737.1	2407.6	3684.7	5646.9	7326.0	7903.1	7608.4	7423.4	7450.4
70°	899.7	917.7	1065.9	1488.3	2456.7	4479.6	6639.1	7880.2	7718.1	7446.3	7461.9
72.5°	586.1	591.9	616.4	763.8	1255.0	2505.0	4983.0	7343.2	7882.6	7579.7	7577.3
75°	487.1	483.8	486.3	503.5	618.9	1098.6	2911.9	5800.8	7514.2	7369.3	7317.8
77.5°	411.8	409.3	408.5	409.3	414.2	530.5	1264.0	3613.5	5750.1	6518.8	6564.6
80°	333.2	329.9	340.6	335.6	320.9	329.9	529.7	1503.0	2710.5	2916.0	2732.6
82.5°	242.3	230.0	275.9	262.8	250.5	232.5	292.3	485.5	646.7	443.7	311.9
85°	186.6	173.6	209.6	201.4	171.9	118.7	173.6	237.4	262.0	149.8	117.9
87.5°	76.1	80.2	151.4	119.5	100.7	57.3	71.2	95.0	127.7	63.9	49.1
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)