

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: P316178

Luminaire Tested: **GAN-SA4D-740-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316178  
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-SA4D-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32968 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

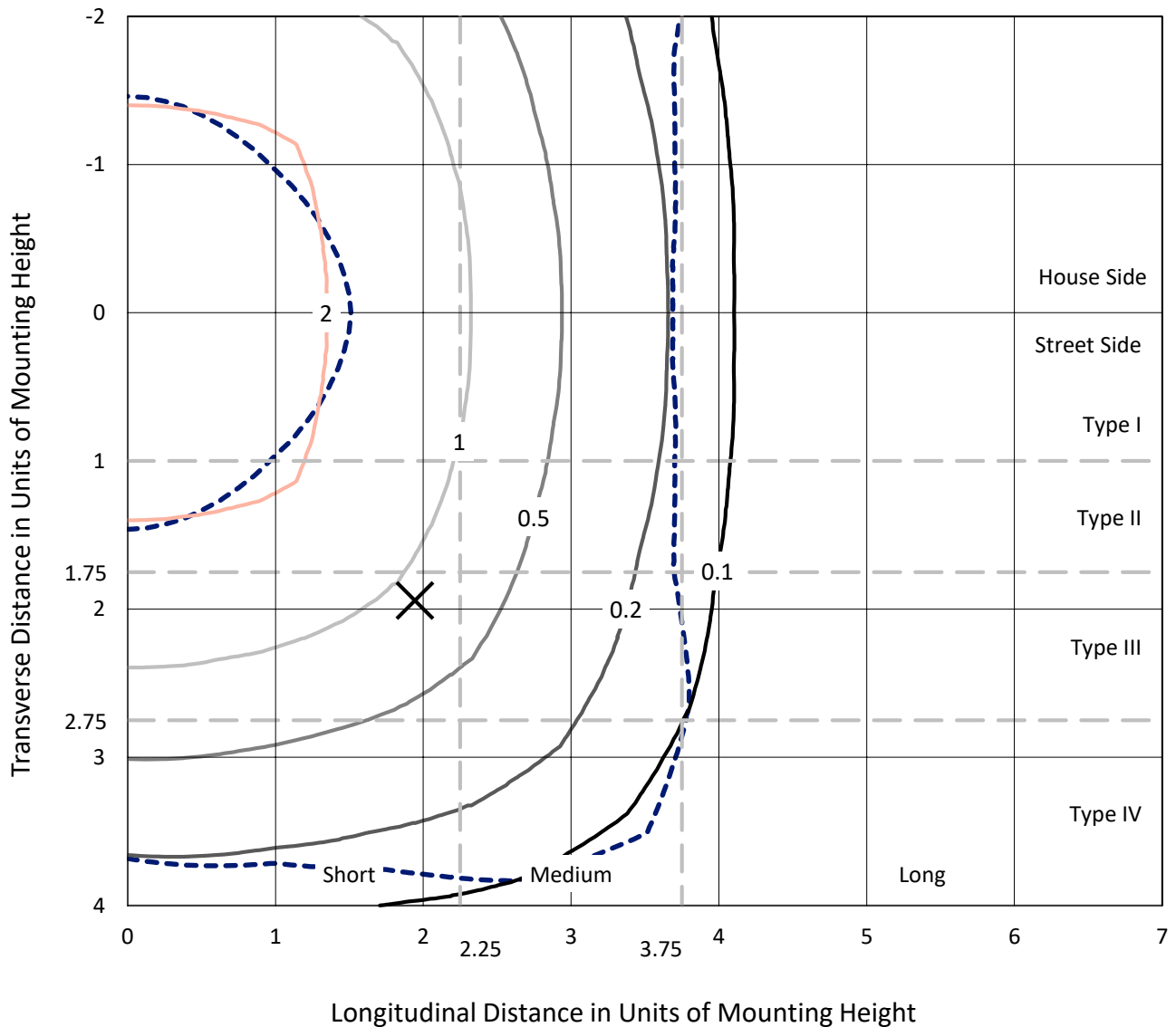
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

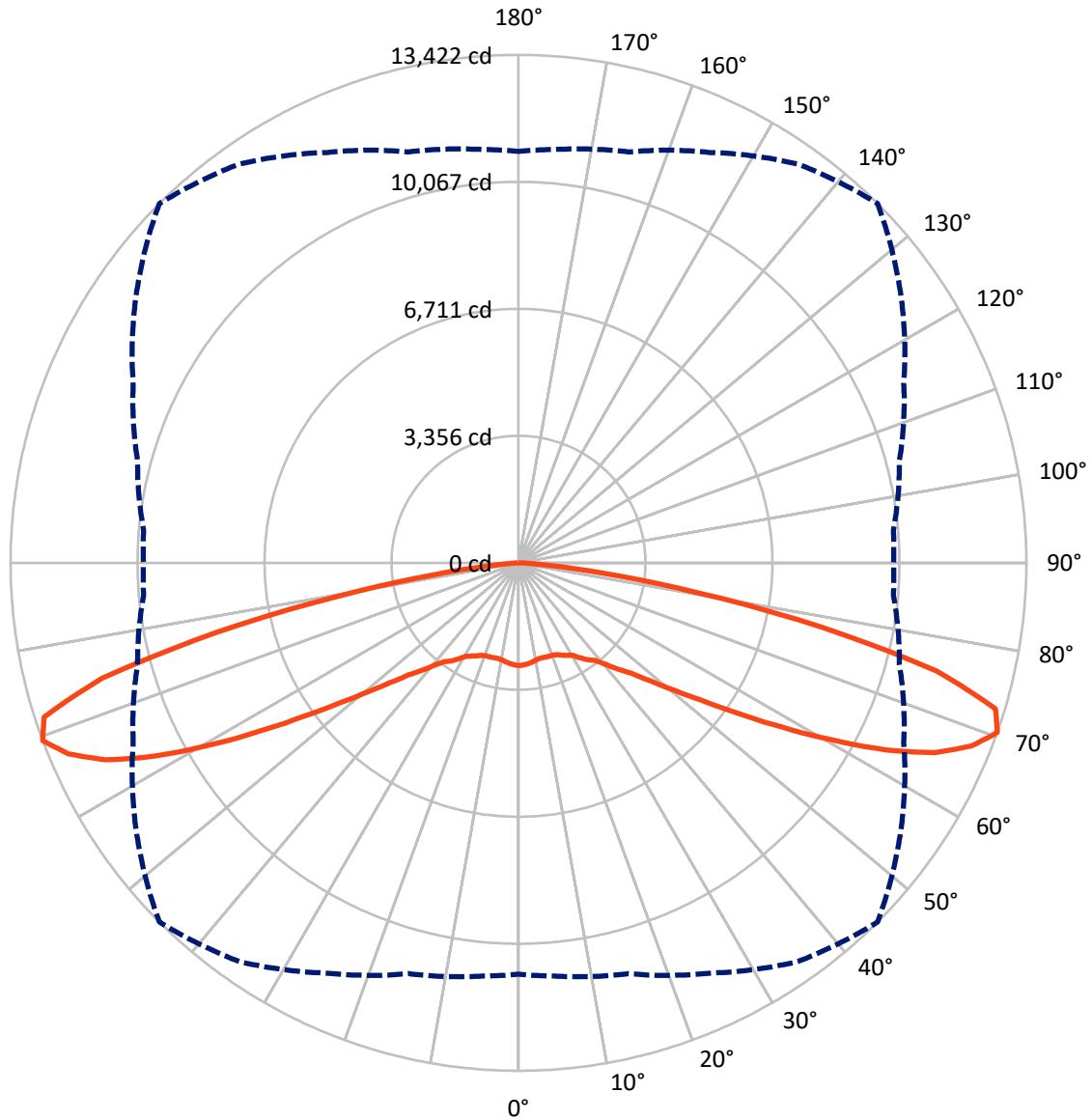
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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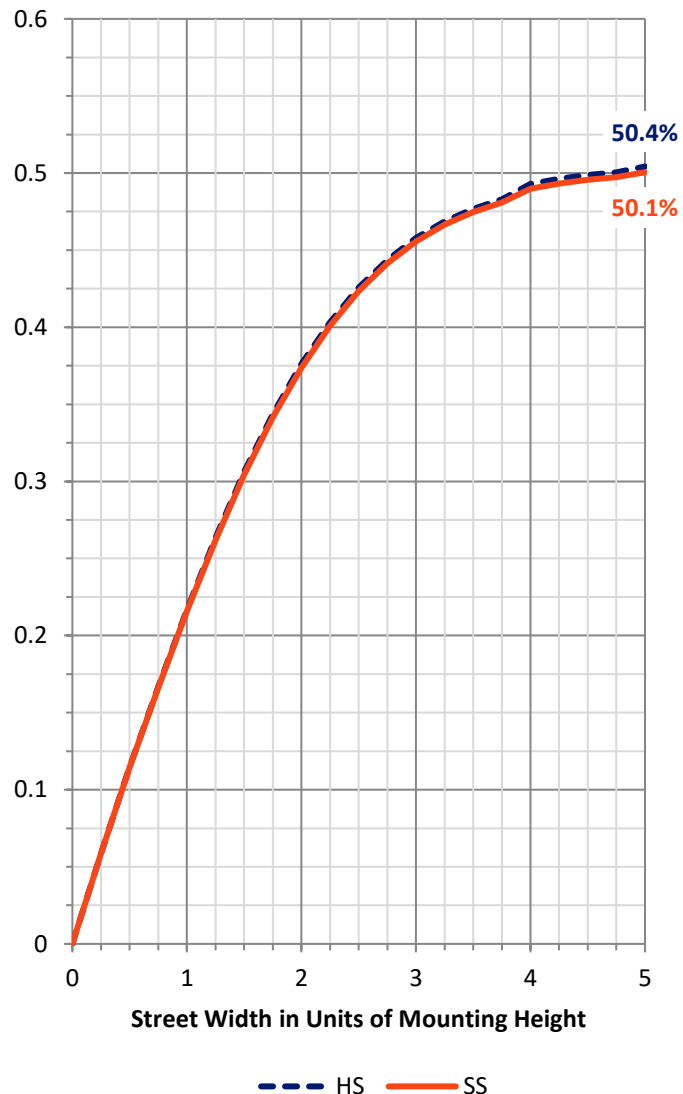
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16484.0	0.0	16484.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16484.0	0.0	16484.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32968.0	0.0	32968.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.2	0.8
10°-20°	739.7	2.2
20°-30°	1261.2	3.8
30°-40°	1970.7	6.0
40°-50°	3339.8	10.1
50°-60°	6090.4	18.5
60°-70°	10485.0	31.8
70°-80°	8218.6	24.9
80°-90°	609.4	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°	32968.0	100.0
0°-180°	32968.0	100.0

**Coefficient of Utilization**



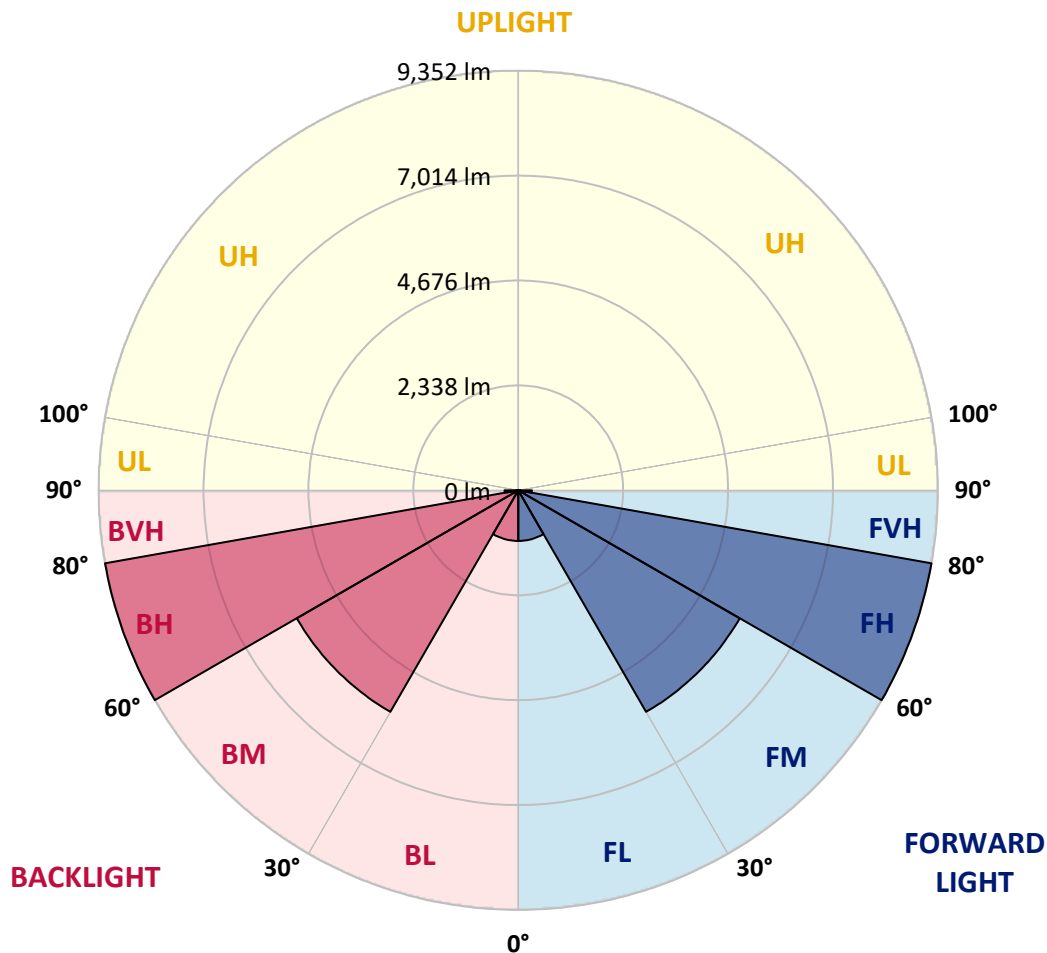
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.1	3.4			
FM (30°-60°)	5700.4	17.3			
FH (60°-80°)	9351.8	28.4			G4/12000
FVH (80°-90°)	304.7	0.9			G3/500
BL (0°-30°)	1127.1	3.4	B3/2500		
BM (30°-60°)	5700.4	17.3	B4/8500		
BH (60°-80°)	9351.8	28.4	B5		G4/12000
BVH (80°-90°)	304.7	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°	2713.3	2713.3	2713.3	2713.3	2713.3	2713.3	2713.3	2713.3	2713.3	2713.3	2713.3
2.5°	2701.3	2704.5	2701.3	2703.5	2698.0	2700.2	2700.2	2700.2	2699.1	2700.2	2698.0
5°	2677.3	2679.5	2675.1	2677.3	2674.0	2677.3	2678.4	2677.3	2675.1	2676.2	2671.8
7.5°	2641.3	2643.5	2640.2	2643.5	2639.1	2644.6	2643.5	2640.2	2636.9	2636.9	2632.6
10°	2621.7	2622.8	2614.0	2610.8	2600.9	2603.1	2606.4	2609.7	2612.9	2619.5	2618.4
12.5°	2622.8	2622.8	2609.7	2595.5	2581.3	2584.6	2590.0	2602.0	2615.1	2627.1	2628.2
15°	2633.7	2632.6	2612.9	2590.0	2580.2	2590.0	2593.3	2600.9	2621.7	2642.4	2643.5
17.5°	2641.3	2641.3	2610.8	2584.6	2583.5	2598.8	2597.7	2600.9	2623.8	2654.4	2655.5
20°	2655.5	2655.5	2616.2	2587.9	2587.9	2604.2	2605.3	2610.8	2633.7	2667.5	2672.9
22.5°	2687.1	2688.2	2646.7	2623.8	2626.0	2635.8	2639.1	2647.8	2668.6	2705.6	2712.2
25°	2731.8	2734.0	2691.5	2678.4	2686.0	2704.5	2702.4	2708.9	2731.8	2767.8	2774.3
27.5°	2794.0	2788.5	2749.3	2743.8	2751.4	2764.5	2763.4	2764.5	2783.1	2815.8	2823.4
30°	2874.7	2872.5	2844.1	2847.4	2844.1	2839.8	2840.9	2849.6	2859.4	2885.6	2893.2
32.5°	2953.2	2955.4	2937.9	2954.3	2978.3	2994.6	2969.5	2945.6	2934.7	2948.8	2955.4
35°	3095.0	3100.4	3073.2	3062.2	3095.0	3142.9	3072.1	3032.8	3054.6	3073.2	3078.6
37.5°	3336.0	3339.2	3293.4	3249.8	3225.8	3271.6	3200.7	3204.0	3280.4	3315.3	3314.2
40°	3610.8	3611.9	3581.3	3543.2	3501.7	3512.6	3484.3	3493.0	3543.2	3574.8	3583.5
42.5°	3938.0	3934.7	3886.7	3832.2	3820.2	3831.1	3783.1	3776.6	3834.3	3891.1	3892.1
45°	4362.2	4354.5	4292.4	4232.4	4174.6	4150.6	4138.6	4170.2	4249.8	4302.2	4303.3
47.5°	4819.1	4798.4	4765.7	4717.7	4667.5	4643.5	4623.9	4639.2	4697.0	4717.7	4719.9
50°	5289.1	5293.5	5300.0	5281.5	5263.0	5255.3	5204.1	5174.6	5192.1	5153.9	5148.5
52.5°	5846.4	5855.1	5918.4	5971.8	6003.4	6019.8	5922.7	5821.3	5764.6	5690.5	5668.6
55°	6504.0	6518.2	6610.9	6759.2	6911.9	6992.6	6817.0	6627.2	6451.7	6313.2	6268.4
57.5°	7236.8	7261.9	7389.5	7674.2	7987.1	8178.0	7881.4	7536.7	7197.6	6998.0	6963.1
60°	8096.2	8120.2	8296.9	8704.7	9211.8	9498.6	9049.3	8485.5	8063.5	7872.6	7808.3
62.5°	9119.1	9121.3	9338.3	9814.9	10484.5	10883.6	10275.1	9521.5	9086.4	8856.3	8794.1
65°	10219.5	10224.9	10449.6	10964.3	11656.8	12090.8	11403.8	10618.6	10086.4	9747.3	9699.3
67.5°	10997.0	11019.9	11256.6	11876.0	12523.8	12915.3	12204.3	11316.6	10701.5	10296.9	10256.6
70°	10872.7	10962.1	11240.2	11963.3	12864.0	13422.4	12334.0	11233.7	10422.3	9944.7	9910.9
72.5°	9482.3	9653.5	10024.3	10973.0	12413.7	13182.5	11626.3	10061.3	9143.1	8736.3	8675.3
75°	6457.1	6735.2	7294.6	8663.3	10605.5	11413.6	9787.6	8022.0	7158.3	6595.6	6554.2
77.5°	2879.0	2942.3	3651.1	5227.0	7318.6	8196.5	7111.4	5247.7	3939.0	3141.9	2973.9
80°	802.6	812.5	1084.0	1946.6	3663.1	4815.8	3932.5	2044.8	1149.4	810.3	763.4
82.5°	255.2	277.0	338.1	504.9	1231.2	2197.4	1263.9	545.3	388.2	309.7	279.2
85°	124.3	123.2	171.2	205.0	314.1	486.4	334.8	253.0	221.4	147.2	133.0
87.5°	52.3	53.4	79.6	72.0	91.6	78.5	108.0	113.4	118.9	65.4	56.7
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)