

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: P383074

Luminaire Tested: **GAN-SA4B-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383074
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-SA4B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 22559.3 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

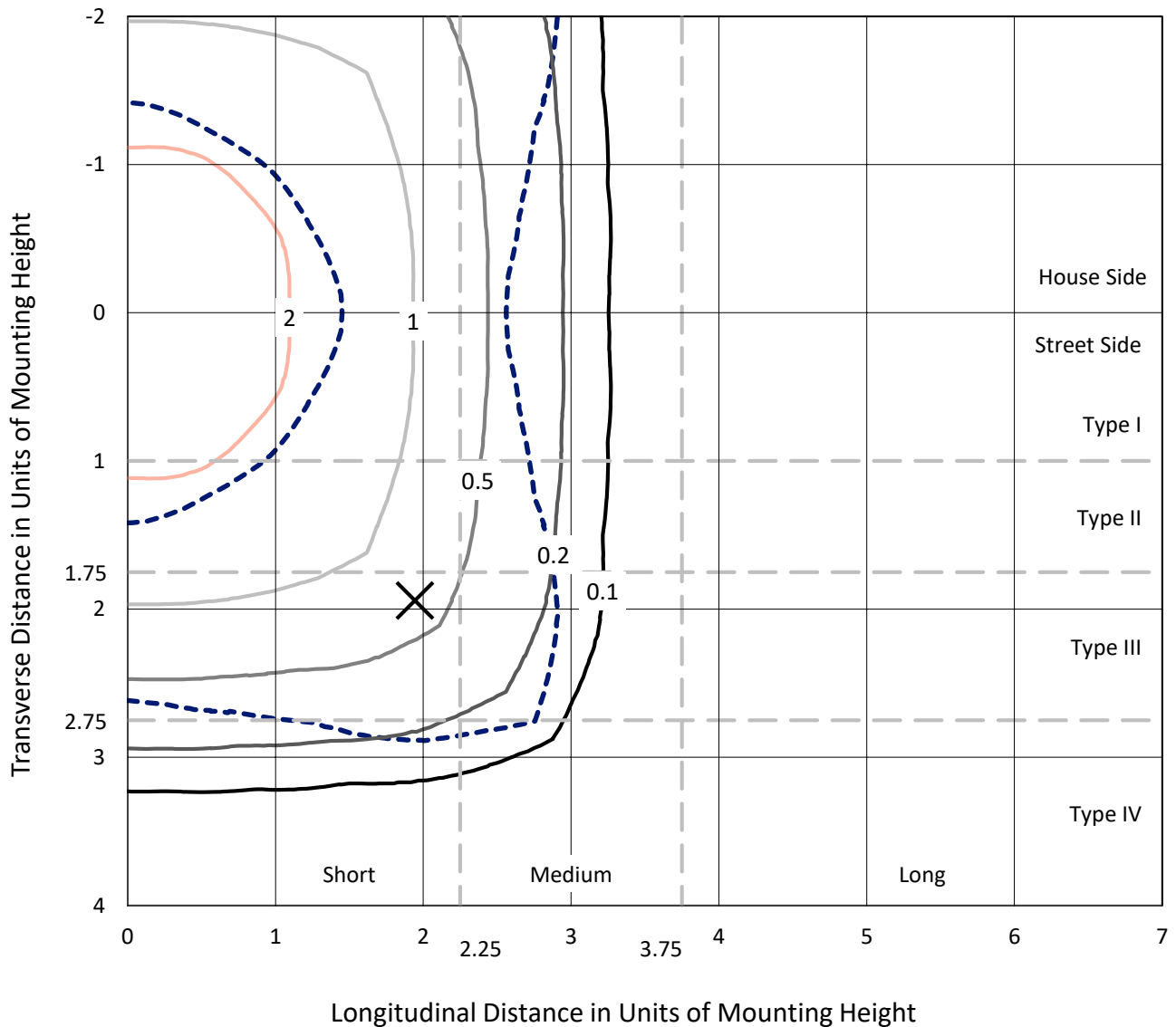
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

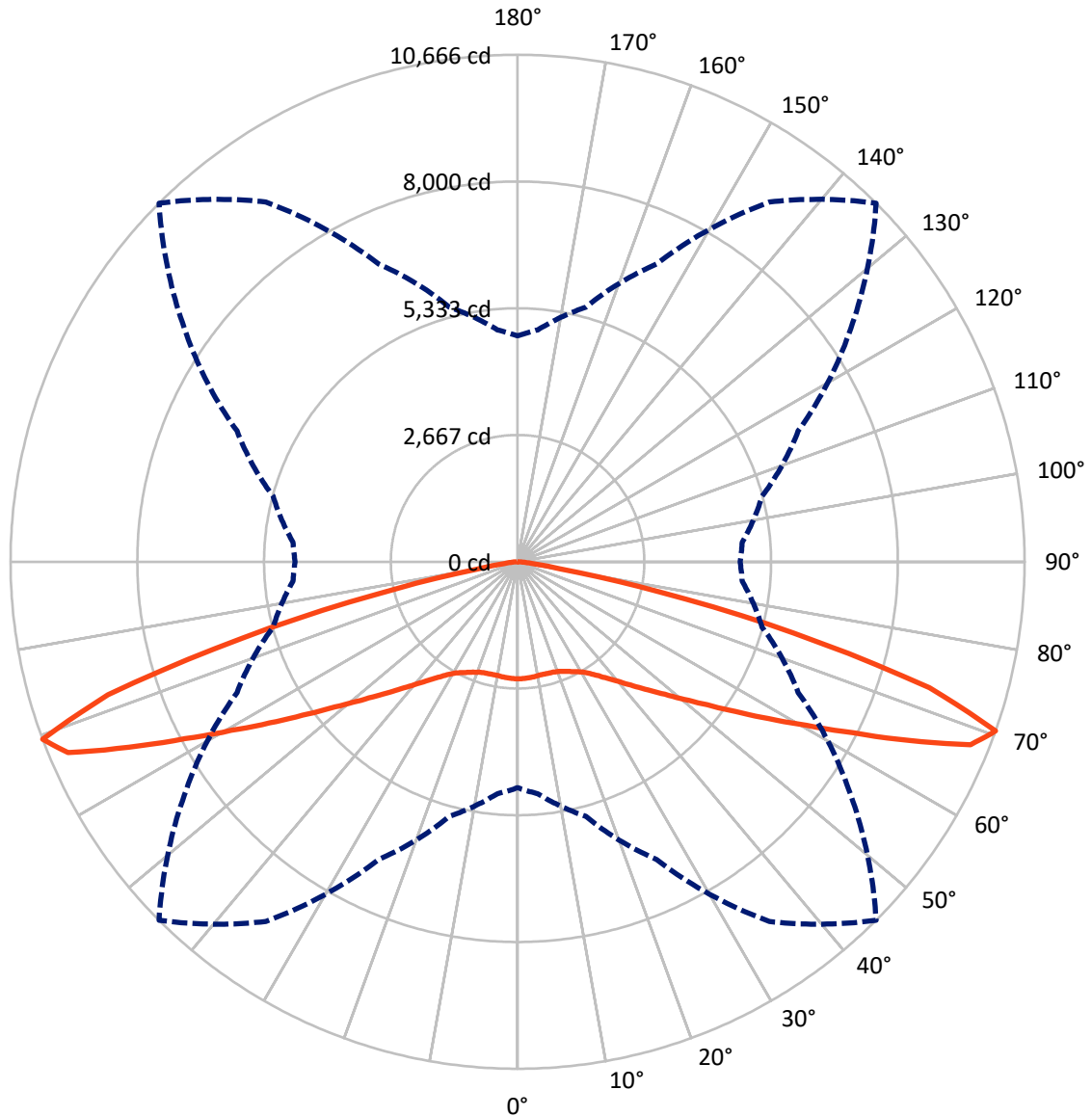
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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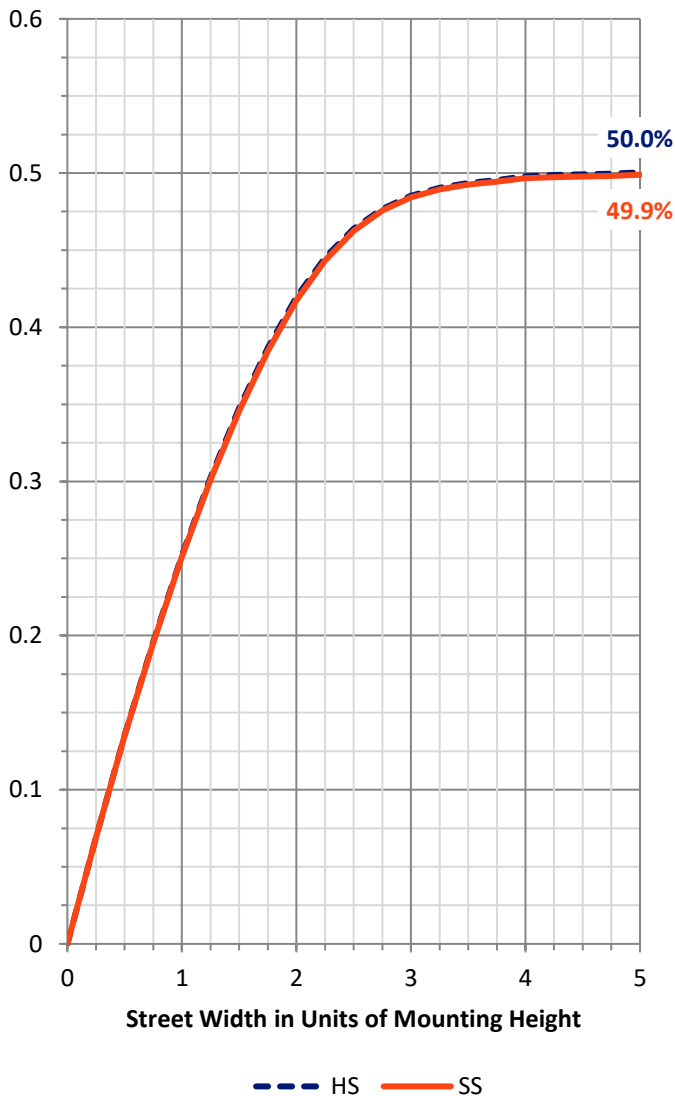
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11279.6	0.0	11279.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11279.6	0.0	11279.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	22559.3	0.0	22559.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.0
10°-20°	685.1	3.0
20°-30°	1166.2	5.2
30°-40°	1849.6	8.2
40°-50°	3009.8	13.3
50°-60°	4962.6	22.0
60°-70°	7285.3	32.3
70°-80°	3221.5	14.3
80°-90°	145.9	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°	22559.3	100.0
0°-180°	22559.3	100.0

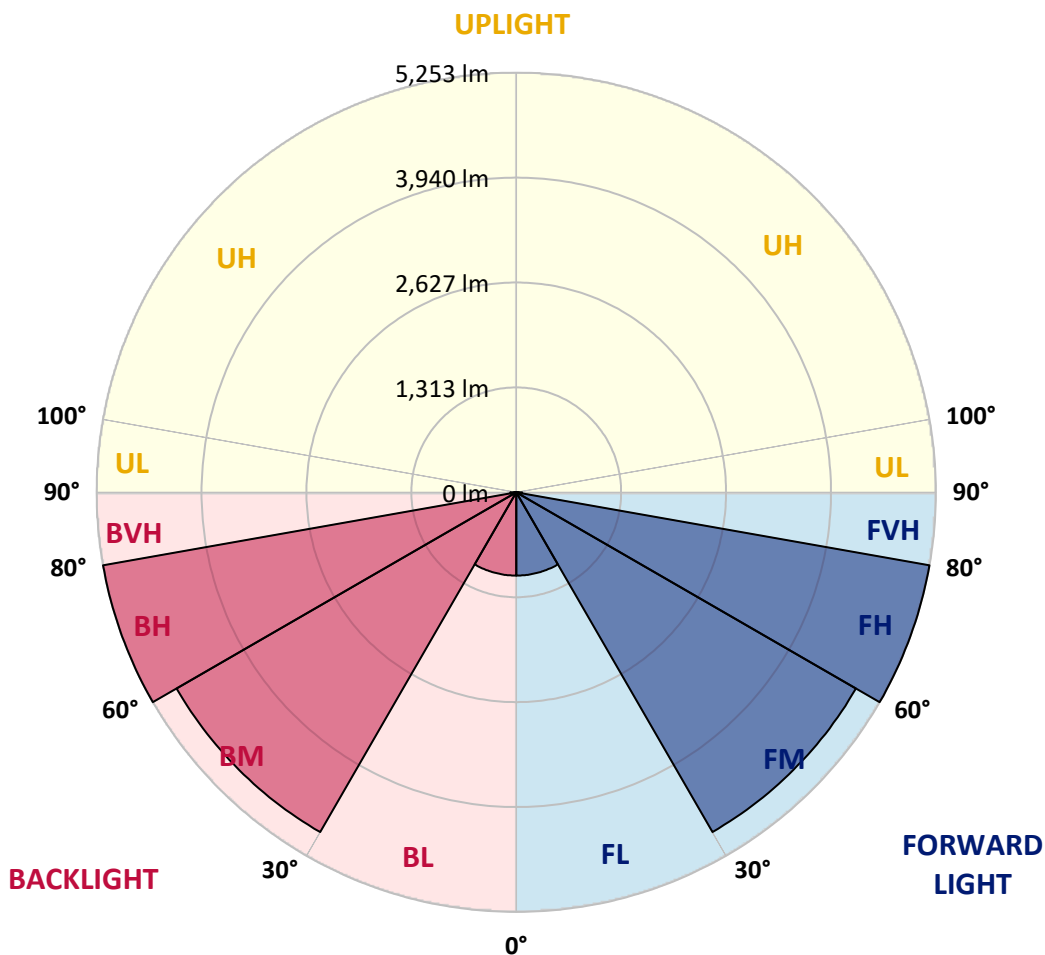


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.3	4.6			
FM (30°-60°)	4911.0	21.8			
FH (60°-80°)	5253.4	23.3			G3/7500
FVH (80°-90°)	72.9	0.3			G1/100
BL (0°-30°)	1042.3	4.6	B3/2500		
BM (30°-60°)	4911.0	21.8	B3/5000		
BH (60°-80°)	5253.4	23.3	B5		G3/7500
BVH (80°-90°)	72.9	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°	2463.9	2463.9	2463.9	2463.9	2463.9	2463.9	2463.9	2463.9	2463.9	2463.9	2463.9
2.5°	2460.1	2457.9	2463.1	2462.4	2457.9	2458.6	2458.6	2460.9	2460.9	2459.4	2459.4
5°	2451.1	2449.6	2455.7	2455.7	2451.1	2452.7	2454.2	2456.4	2455.7	2454.2	2453.4
7.5°	2439.9	2439.2	2445.1	2445.1	2442.1	2443.6	2442.1	2442.9	2441.4	2439.9	2437.7
10°	2421.3	2422.8	2428.0	2429.5	2429.5	2430.2	2428.7	2425.0	2422.8	2420.5	2418.3
12.5°	2404.1	2403.4	2410.8	2414.6	2420.5	2427.2	2422.8	2412.3	2407.9	2403.4	2401.9
15°	2392.9	2393.6	2401.1	2407.9	2418.3	2432.5	2427.2	2410.8	2401.9	2396.6	2395.1
17.5°	2390.6	2392.1	2401.9	2413.8	2425.0	2440.7	2437.7	2421.3	2406.4	2396.6	2394.4
20°	2395.8	2396.6	2411.6	2428.7	2448.1	2463.1	2456.4	2438.4	2418.3	2403.4	2399.6
22.5°	2405.6	2408.6	2427.2	2454.2	2484.0	2504.2	2495.9	2465.3	2433.9	2415.3	2410.1
25°	2436.2	2436.9	2462.4	2498.9	2534.7	2557.9	2548.2	2504.9	2464.6	2443.6	2436.9
27.5°	2499.6	2501.9	2527.3	2569.9	2600.4	2615.4	2609.5	2574.3	2540.0	2517.6	2519.8
30°	2591.5	2594.5	2622.9	2669.9	2688.5	2692.3	2690.8	2674.4	2643.0	2613.2	2615.4
32.5°	2703.4	2705.0	2743.0	2785.6	2800.5	2803.5	2800.5	2785.6	2748.3	2708.0	2710.2
35°	2847.6	2852.0	2888.6	2929.7	2941.6	2947.6	2942.4	2923.0	2884.2	2844.6	2843.1
37.5°	3025.3	3026.0	3064.1	3106.6	3121.6	3123.1	3117.1	3104.4	3055.8	3020.1	3017.8
40°	3231.4	3234.3	3279.1	3324.7	3330.7	3323.9	3332.1	3324.7	3274.7	3233.6	3240.3
42.5°	3482.2	3488.9	3542.7	3587.5	3570.3	3566.6	3571.8	3574.1	3533.7	3483.7	3479.2
45°	3774.2	3780.1	3847.3	3883.2	3872.0	3847.3	3857.7	3875.7	3819.7	3757.7	3763.6
47.5°	4107.1	4122.1	4193.7	4227.4	4199.7	4166.1	4186.3	4213.1	4147.4	4070.6	4066.8
50°	4477.5	4496.1	4591.7	4638.7	4611.1	4549.1	4582.7	4600.6	4505.8	4406.5	4398.3
52.5°	4872.4	4891.1	5011.3	5108.3	5090.4	4994.1	5041.2	5022.4	4913.4	4779.9	4769.3
55°	5319.6	5327.1	5457.0	5613.8	5631.7	5560.8	5557.8	5527.2	5365.9	5211.4	5203.9
57.5°	5779.5	5784.7	5952.8	6137.9	6222.3	6222.3	6138.6	6073.7	5859.4	5680.2	5661.6
60°	6276.0	6294.7	6480.6	6732.2	6929.3	6987.5	6839.7	6662.8	6429.8	6211.1	6189.4
62.5°	6718.0	6739.7	7024.1	7398.9	7715.5	7927.6	7566.2	7278.0	6854.0	6503.0	6462.0
65°	6774.0	6832.2	7246.6	7925.3	8633.9	9057.2	8364.3	7654.2	6881.5	6394.0	6352.2
67.5°	6186.4	6285.0	6844.9	7901.4	9365.5	10274.1	8874.3	7439.2	6385.8	5846.8	5800.5
70°	4753.7	4897.1	5542.9	6911.4	9239.4	10666.1	8554.7	6512.7	5324.1	4744.0	4679.1
72.5°	2608.0	2666.9	3247.7	4732.8	7407.2	9063.9	7135.4	4815.6	3530.8	2873.0	2764.0
75°	827.2	848.2	1143.8	1936.7	4190.0	6003.5	4532.7	2363.8	1301.4	959.4	948.2
77.5°	367.3	369.5	413.6	565.2	1443.2	3041.7	1733.6	643.6	443.5	387.5	400.2
80°	232.2	232.2	256.1	280.0	392.7	883.2	468.8	306.1	261.3	242.7	247.9
82.5°	111.2	123.2	166.5	179.2	215.7	297.2	240.4	200.1	174.7	130.0	120.9
85°	73.1	61.2	105.3	118.7	125.4	142.6	139.6	132.2	114.2	64.9	72.4
87.5°	32.9	31.4	54.5	50.0	47.0	35.9	53.8	66.4	64.2	32.1	32.1
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)