

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: P316438

Luminaire Tested: **GAN-SA4B-730-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316438
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-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 22053 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

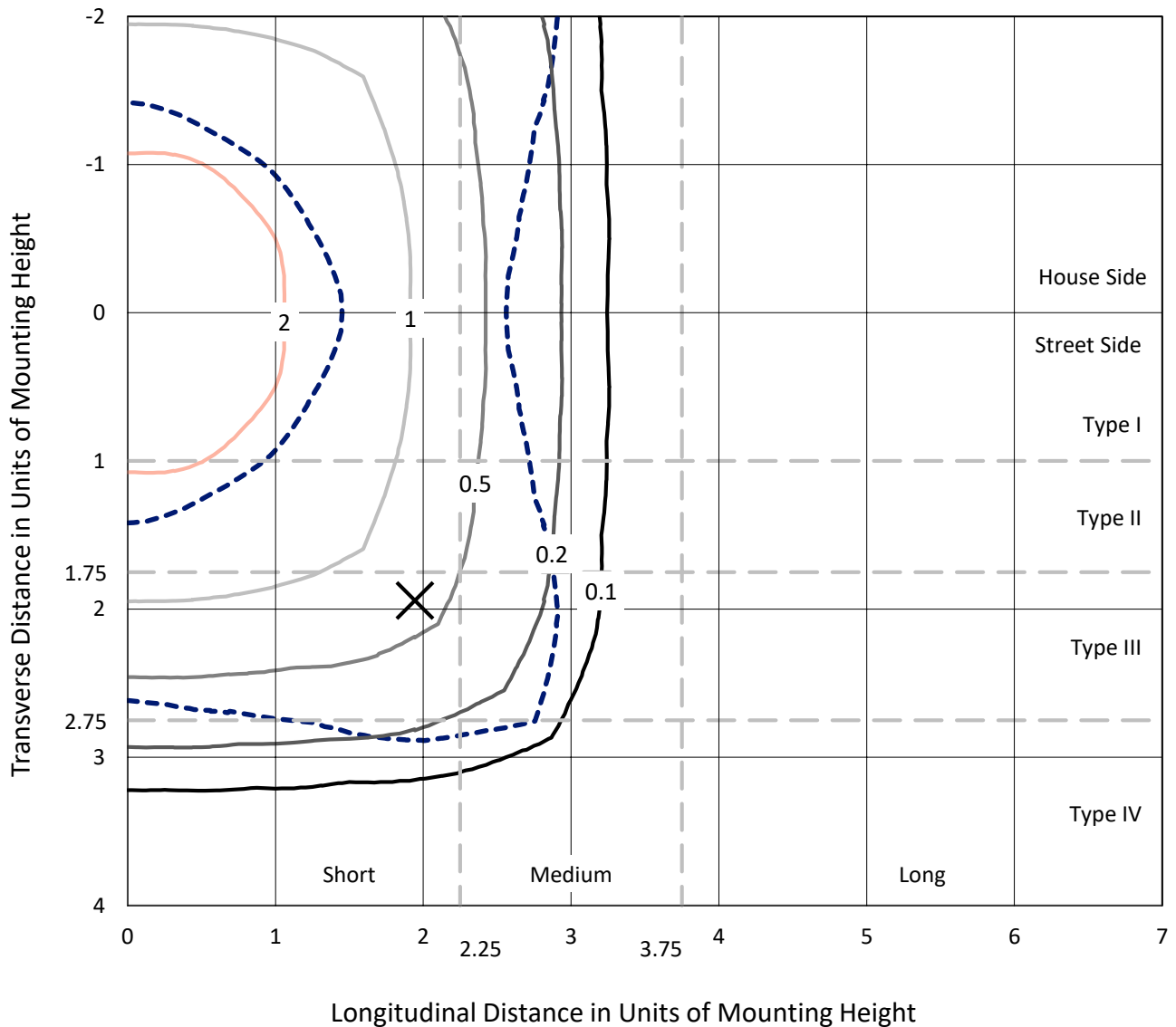
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

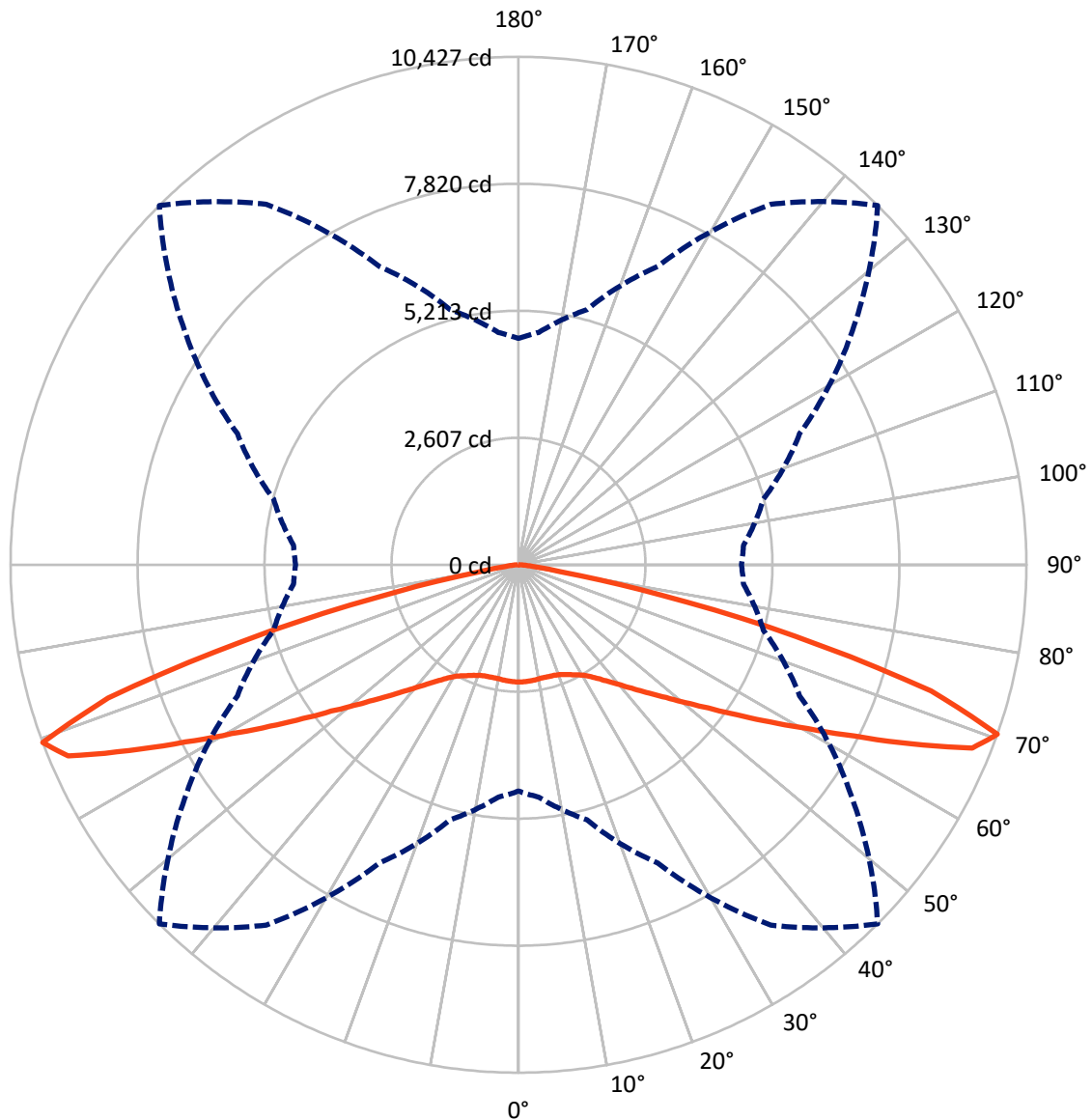
× Max cd
 - - - 1/2 Max cd



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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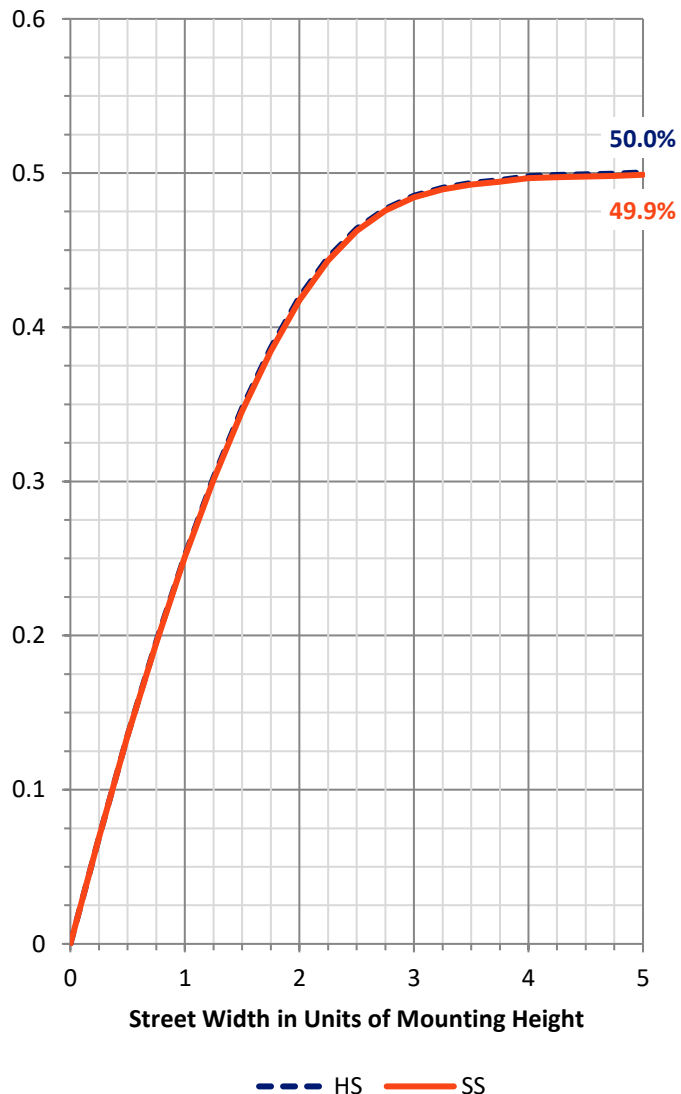
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11026.5	0.0	11026.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11026.5	0.0	11026.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22053.0	0.0	22053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	1.0
10°-20°	669.7	3.0
20°-30°	1140.0	5.2
30°-40°	1808.1	8.2
40°-50°	2942.3	13.3
50°-60°	4851.3	22.0
60°-70°	7121.8	32.3
70°-80°	3149.2	14.3
80°-90°	142.6	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°	22053.0	100.0
0°-180°	22053.0	100.0

Coefficient of Utilization



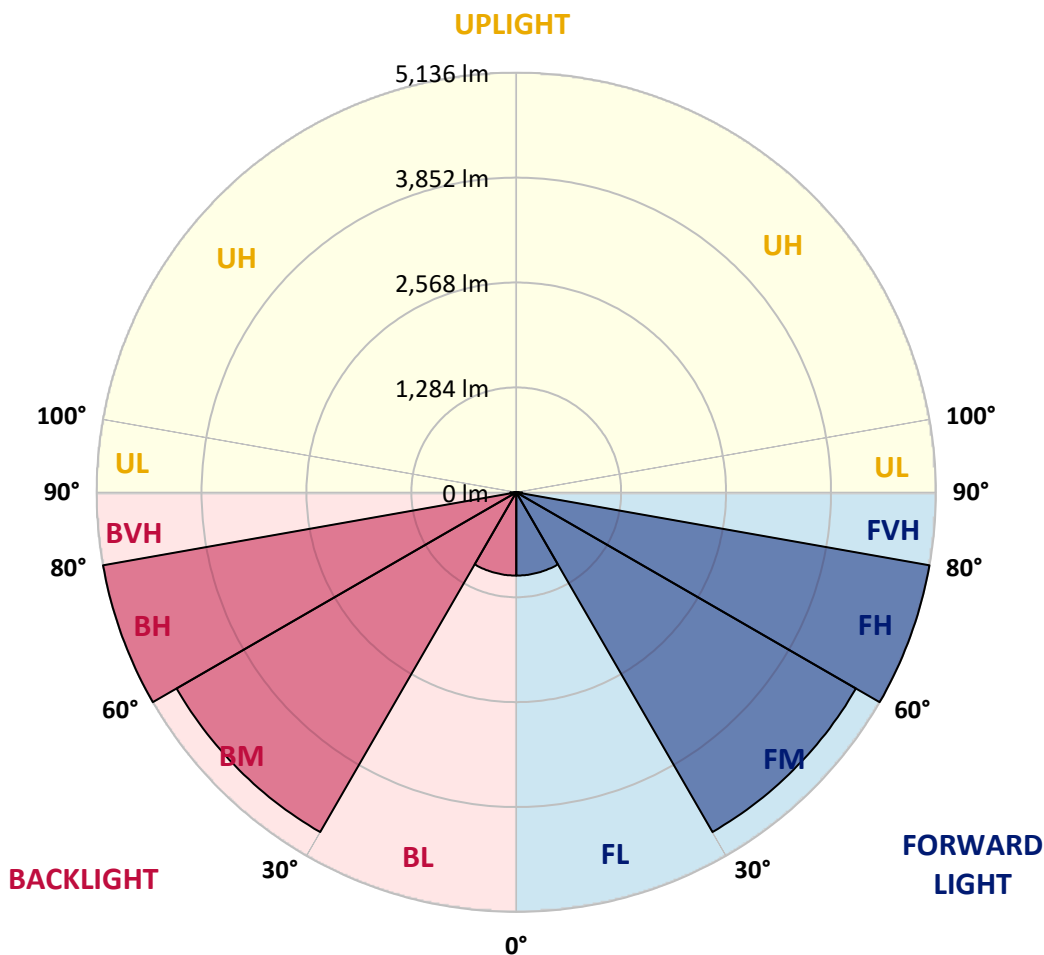
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.9	4.6			
FM (30°-60°)	4800.8	21.8			
FH (60°-80°)	5135.5	23.3			G3/7500
FVH (80°-90°)	71.3	0.3			G1/100
BL (0°-30°)	1018.9	4.6	B3/2500		
BM (30°-60°)	4800.8	21.8	B3/5000		
BH (60°-80°)	5135.5	23.3	B5		G3/7500
BVH (80°-90°)	71.3	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°	2408.5	2408.5	2408.5	2408.5	2408.5	2408.5	2408.5	2408.5	2408.5	2408.5	2408.5
2.5°	2404.9	2402.7	2407.8	2407.1	2402.7	2403.4	2403.4	2405.6	2405.6	2404.2	2404.2
5°	2396.1	2394.7	2400.5	2400.5	2396.1	2397.6	2399.0	2401.2	2400.5	2399.0	2398.3
7.5°	2385.2	2384.4	2390.3	2390.3	2387.4	2388.8	2387.4	2388.1	2386.6	2385.2	2383.0
10°	2366.9	2368.4	2373.5	2375.0	2375.0	2375.7	2374.2	2370.6	2368.4	2366.2	2364.0
12.5°	2350.1	2349.4	2356.7	2360.4	2366.2	2372.8	2368.4	2358.2	2353.8	2349.4	2348.0
15°	2339.2	2339.9	2347.2	2353.8	2364.0	2377.9	2372.8	2356.7	2348.0	2342.8	2341.4
17.5°	2337.0	2338.5	2348.0	2359.6	2370.6	2385.9	2383.0	2366.9	2352.3	2342.8	2340.7
20°	2342.1	2342.8	2357.4	2374.2	2393.2	2407.8	2401.2	2383.7	2364.0	2349.4	2345.8
22.5°	2351.6	2354.5	2372.8	2399.0	2428.2	2447.9	2439.9	2410.0	2379.3	2361.1	2356.0
25°	2381.5	2382.3	2407.1	2442.8	2477.9	2500.5	2491.0	2448.7	2409.3	2388.8	2382.3
27.5°	2443.6	2445.8	2470.6	2512.2	2542.1	2556.7	2550.9	2516.5	2483.0	2461.1	2463.3
30°	2533.3	2536.3	2564.0	2610.0	2628.2	2631.9	2630.4	2614.4	2583.7	2554.5	2556.7
32.5°	2642.8	2644.3	2681.5	2723.1	2737.7	2740.6	2737.7	2723.1	2686.6	2647.2	2649.4
35°	2783.7	2788.1	2823.8	2864.0	2875.6	2881.5	2876.4	2857.4	2819.4	2780.8	2779.3
37.5°	2957.4	2958.1	2995.3	3036.9	3051.5	3053.0	3047.2	3034.7	2987.3	2952.3	2950.1
40°	3158.8	3161.7	3205.5	3250.1	3255.9	3249.3	3257.4	3250.1	3201.2	3161.0	3167.6
42.5°	3404.1	3410.6	3463.2	3507.0	3490.2	3486.5	3491.6	3493.8	3454.4	3405.5	3401.1
45°	3689.4	3695.3	3761.0	3796.0	3785.0	3761.0	3771.2	3788.7	3734.0	3673.4	3679.2
47.5°	4014.9	4029.5	4099.6	4132.5	4105.5	4072.6	4092.3	4118.6	4054.4	3979.2	3975.5
50°	4377.0	4395.2	4488.6	4534.6	4507.6	4447.0	4479.9	4497.4	4404.7	4307.6	4299.6
52.5°	4763.1	4781.3	4898.8	4993.7	4976.2	4882.0	4928.0	4909.8	4803.2	4672.5	4662.3
55°	5200.2	5207.5	5334.5	5487.8	5505.3	5436.0	5433.1	5403.1	5245.5	5094.4	5087.1
57.5°	5649.8	5654.9	5819.2	6000.2	6082.6	6082.6	6000.9	5937.4	5727.9	5552.8	5534.5
60°	6135.2	6153.4	6335.2	6581.1	6773.8	6830.7	6686.2	6513.3	6285.5	6071.7	6050.5
62.5°	6567.3	6588.4	6866.5	7232.9	7542.4	7749.6	7396.4	7114.7	6700.1	6357.1	6316.9
65°	6622.0	6678.9	7084.0	7747.4	8440.1	8853.9	8176.6	7482.5	6727.1	6250.5	6209.6
67.5°	6047.6	6143.9	6691.3	7724.1	9155.3	10043.6	8675.1	7272.3	6242.5	5715.5	5670.3
70°	4647.0	4787.1	5418.5	6756.3	9032.0	10426.7	8362.7	6366.5	5204.6	4637.5	4574.0
72.5°	2549.4	2607.1	3174.9	4626.6	7240.9	8860.5	6975.3	4707.6	3451.5	2808.5	2701.9
75°	808.7	829.1	1118.1	1893.3	4096.0	5868.8	4431.0	2310.7	1272.1	937.9	926.9
77.5°	359.1	361.3	404.3	552.5	1410.8	2973.4	1694.7	629.1	433.5	378.8	391.2
80°	227.0	227.0	250.3	273.7	383.9	863.4	458.4	299.2	255.5	237.2	242.3
82.5°	108.7	120.4	162.8	175.2	210.9	290.5	235.0	195.6	170.8	127.0	118.2
85°	71.5	59.8	102.9	116.0	122.6	139.4	136.5	129.2	111.7	63.5	70.8
87.5°	32.1	30.7	53.3	48.9	46.0	35.0	52.5	65.0	62.8	31.4	31.4
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)