

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: P316708

Luminaire Tested: **GAN-SA4A-727-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16218 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

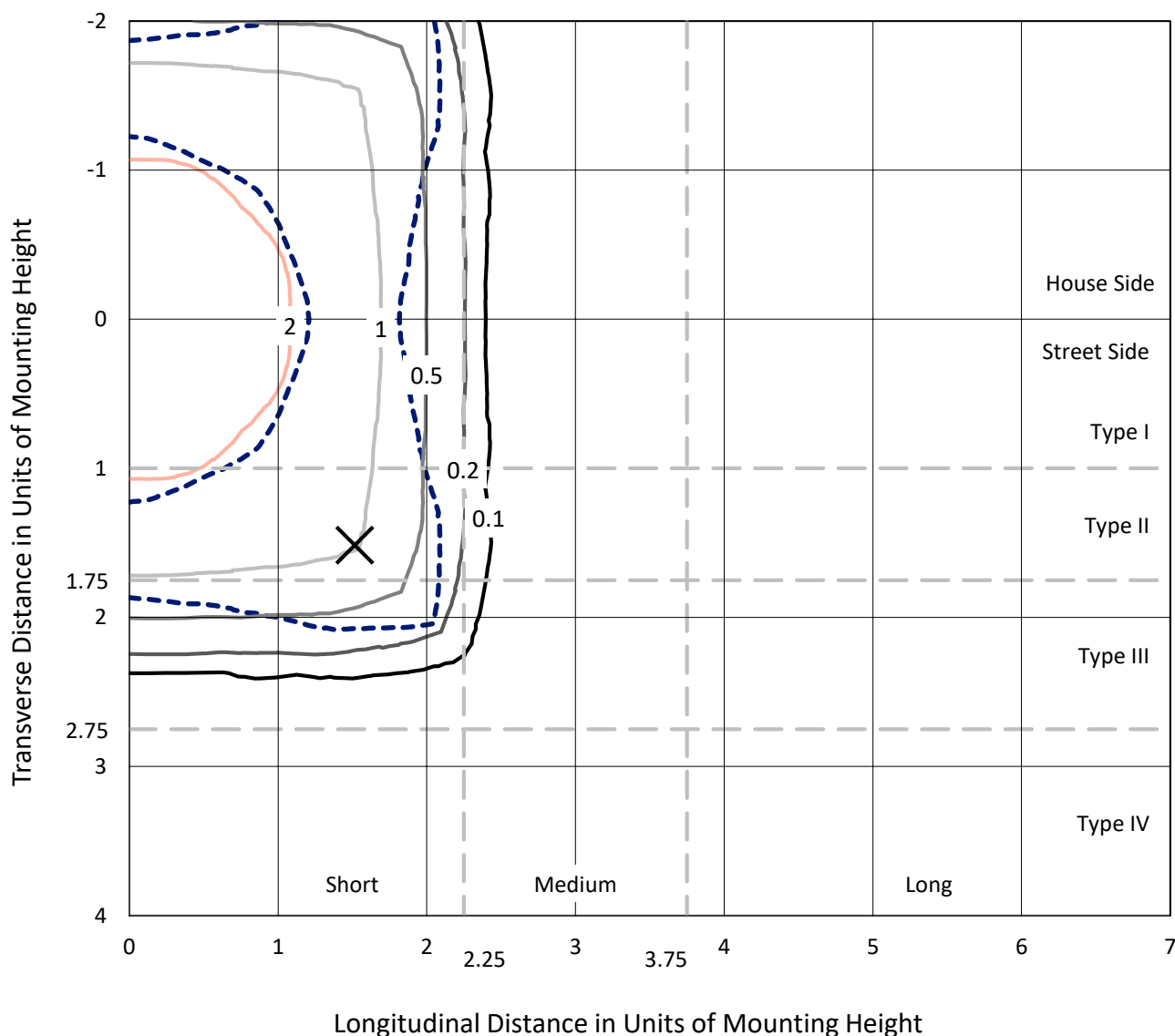
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

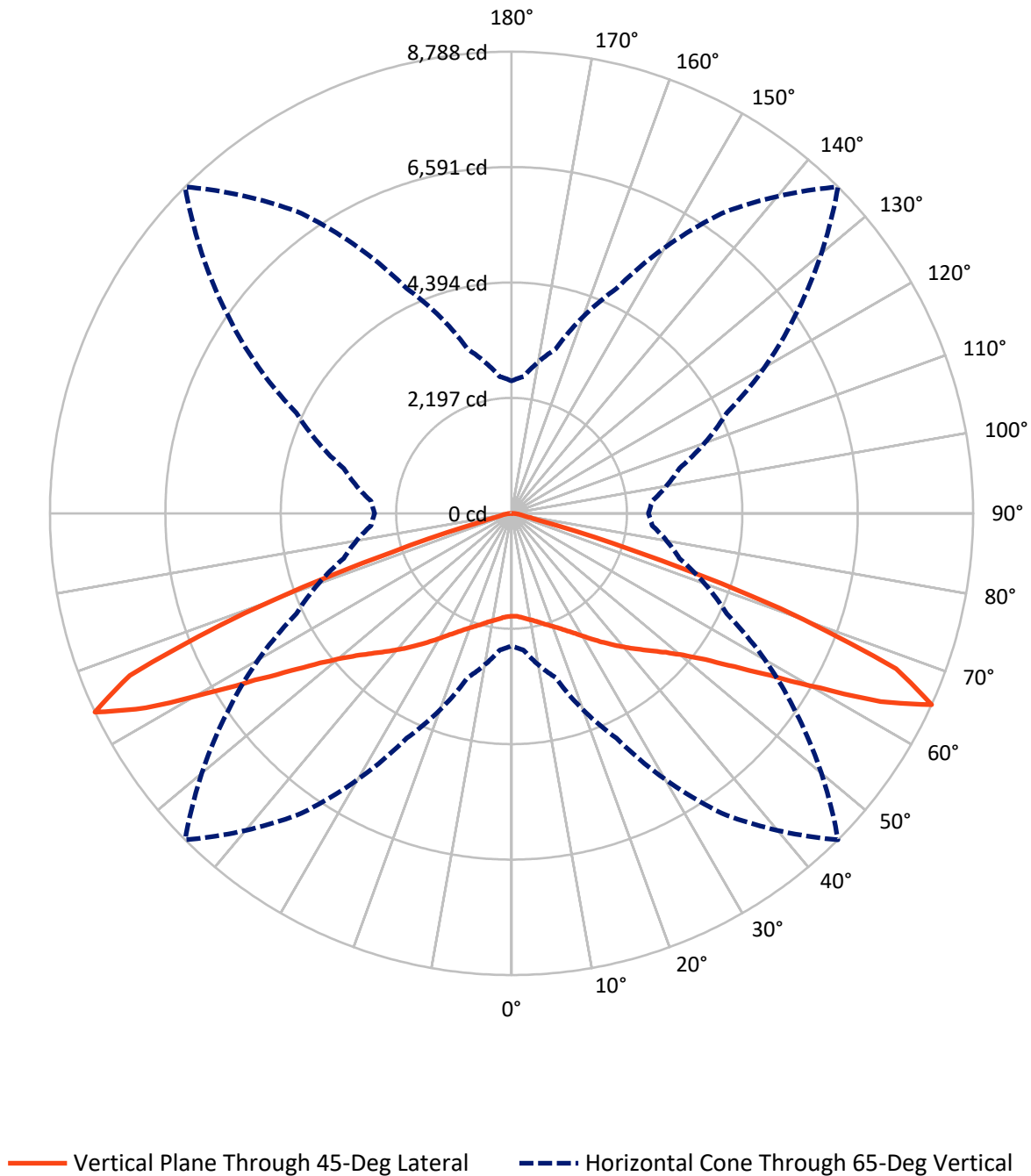
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	8109.0	0.0	8109.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8109.0	0.0	8109.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16218.0	0.0	16218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	1.2
10°-20°	617.6	3.8
20°-30°	1158.8	7.1
30°-40°	1916.5	11.8
40°-50°	2968.3	18.3
50°-60°	4552.6	28.1
60°-70°	4248.1	26.2
70°-80°	494.4	3.0
80°-90°	69.5	0.4
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°	16218.0	100.0
0°-180°	16218.0	100.0

Coefficient of Utilization



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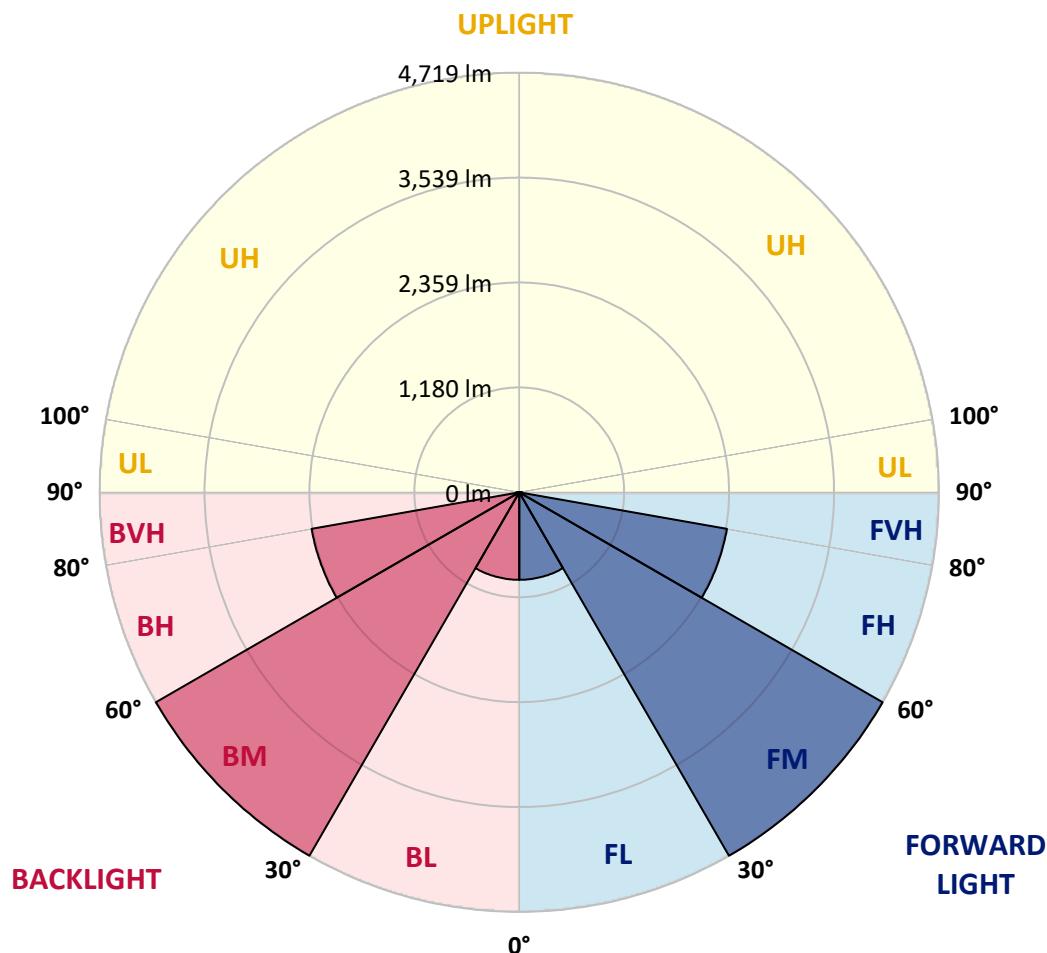
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.3	6.1			
FM	(30°-60°)	4718.7	29.1			
FH	(60°-80°)	2371.2	14.6			G2/5000
FVH	(80°-90°)	34.7	0.2			G1/100
BL	(0°-30°)	984.3	6.1	B2/1000		
BM	(30°-60°)	4718.7	29.1	B3/5000		
BH	(60°-80°)	2371.2	14.6	B3/2500		G2/5000
BVH	(80°-90°)	34.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1958.5	1958.5	1958.5	1958.5	1958.5	1958.5	1958.5	1958.5	1958.5	1958.5	1958.5
2.5°	1965.0	1963.9	1965.0	1965.5	1962.3	1963.9	1963.4	1966.1	1967.1	1966.1	1966.1
5°	1987.6	1986.0	1988.1	1990.8	1986.5	1987.6	1986.0	1989.2	1990.3	1988.1	1989.8
7.5°	2018.8	2019.4	2021.5	2026.4	2023.7	2025.8	2022.6	2023.1	2022.6	2019.4	2019.9
10°	2052.7	2053.3	2057.0	2063.5	2064.6	2064.6	2062.4	2060.8	2058.7	2056.5	2057.0
12.5°	2093.7	2096.3	2099.0	2107.1	2107.1	2111.4	2110.3	2106.0	2102.3	2099.0	2099.0
15°	2149.1	2148.6	2151.8	2159.9	2163.6	2170.6	2170.6	2164.7	2159.9	2156.6	2155.6
17.5°	2207.2	2208.9	2211.0	2220.7	2226.6	2234.7	2235.8	2230.9	2227.7	2223.4	2220.7
20°	2275.1	2277.8	2286.4	2290.2	2295.5	2303.1	2305.8	2304.7	2301.5	2299.3	2299.8
22.5°	2354.2	2361.2	2366.6	2372.0	2378.4	2383.8	2386.5	2390.3	2387.1	2385.4	2384.4
25°	2450.0	2454.9	2465.7	2475.3	2479.7	2481.3	2484.5	2489.9	2489.3	2485.6	2485.6
27.5°	2558.8	2567.9	2581.4	2595.4	2595.4	2590.0	2600.8	2609.9	2606.7	2601.9	2595.4
30°	2690.7	2699.3	2714.9	2734.3	2724.6	2720.8	2735.4	2752.1	2747.2	2739.1	2738.1
32.5°	2832.8	2840.9	2861.3	2882.3	2870.0	2864.6	2880.2	2904.4	2895.8	2879.7	2870.0
35°	2986.8	2994.9	3023.9	3049.2	3028.2	3019.1	3032.0	3058.4	3043.3	3013.2	3005.6
37.5°	3154.2	3158.5	3196.2	3222.0	3207.5	3183.3	3199.4	3218.8	3205.9	3169.3	3154.7
40°	3328.1	3343.7	3387.3	3417.5	3392.2	3353.9	3380.9	3407.8	3388.4	3341.6	3316.8
42.5°	3531.1	3542.9	3601.0	3628.0	3587.0	3533.2	3569.8	3606.4	3587.0	3541.8	3520.3
45°	3742.1	3760.4	3829.8	3856.8	3797.5	3729.2	3773.9	3837.9	3836.3	3771.2	3748.6
47.5°	3972.0	3990.3	4073.2	4108.7	4044.6	3953.1	4016.1	4106.6	4100.1	4028.5	4010.2
50°	4237.4	4256.8	4360.1	4404.8	4345.0	4238.5	4333.2	4412.9	4401.0	4312.7	4314.4
52.5°	4570.6	4569.5	4698.2	4775.7	4714.4	4620.1	4707.4	4784.9	4735.9	4613.7	4609.9
55°	4862.4	4880.2	5039.5	5186.5	5182.7	5146.7	5181.6	5184.9	5044.9	4882.3	4862.4
57.5°	5054.1	5088.0	5312.5	5578.4	5777.6	5825.5	5757.7	5552.0	5224.2	4964.2	4932.4
60°	4936.2	4987.8	5340.5	5882.6	6469.4	6750.9	6368.2	5730.2	5084.7	4722.4	4679.4
62.5°	4140.5	4227.7	4744.0	5735.6	7064.8	7888.0	6810.7	5444.4	4530.2	4031.2	3957.4
65°	2521.6	2613.7	3236.0	4720.8	6968.4	8788.1	6608.8	4518.9	3306.6	2685.8	2606.2
67.5°	840.4	867.3	1233.9	2609.4	5476.7	7896.0	5485.8	2705.2	1439.0	954.0	926.0
70°	328.9	331.6	391.4	756.4	2586.2	5423.4	2853.8	769.8	409.1	323.6	330.5
72.5°	241.7	242.8	259.5	316.0	674.0	2389.2	698.2	317.6	252.5	226.6	226.6
75°	194.3	194.3	206.2	230.4	302.0	548.0	306.3	227.7	197.6	180.9	178.7
77.5°	153.4	156.7	165.8	181.4	204.6	263.8	212.1	180.3	159.4	143.7	140.5
80°	114.1	117.4	132.4	140.0	147.0	183.0	156.7	141.0	126.0	107.7	104.4
82.5°	74.8	78.1	96.9	101.2	99.6	119.5	105.5	103.9	92.6	69.4	66.2
85°	49.0	50.1	64.6	67.3	61.9	54.4	67.3	71.1	64.6	45.2	43.6
87.5°	23.1	23.1	32.8	30.7	28.0	22.6	30.7	36.1	36.6	22.1	21.5
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)