

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: P316428

Luminaire Tested: **GAN-SA4A-730-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316428
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-SA4A-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17984 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

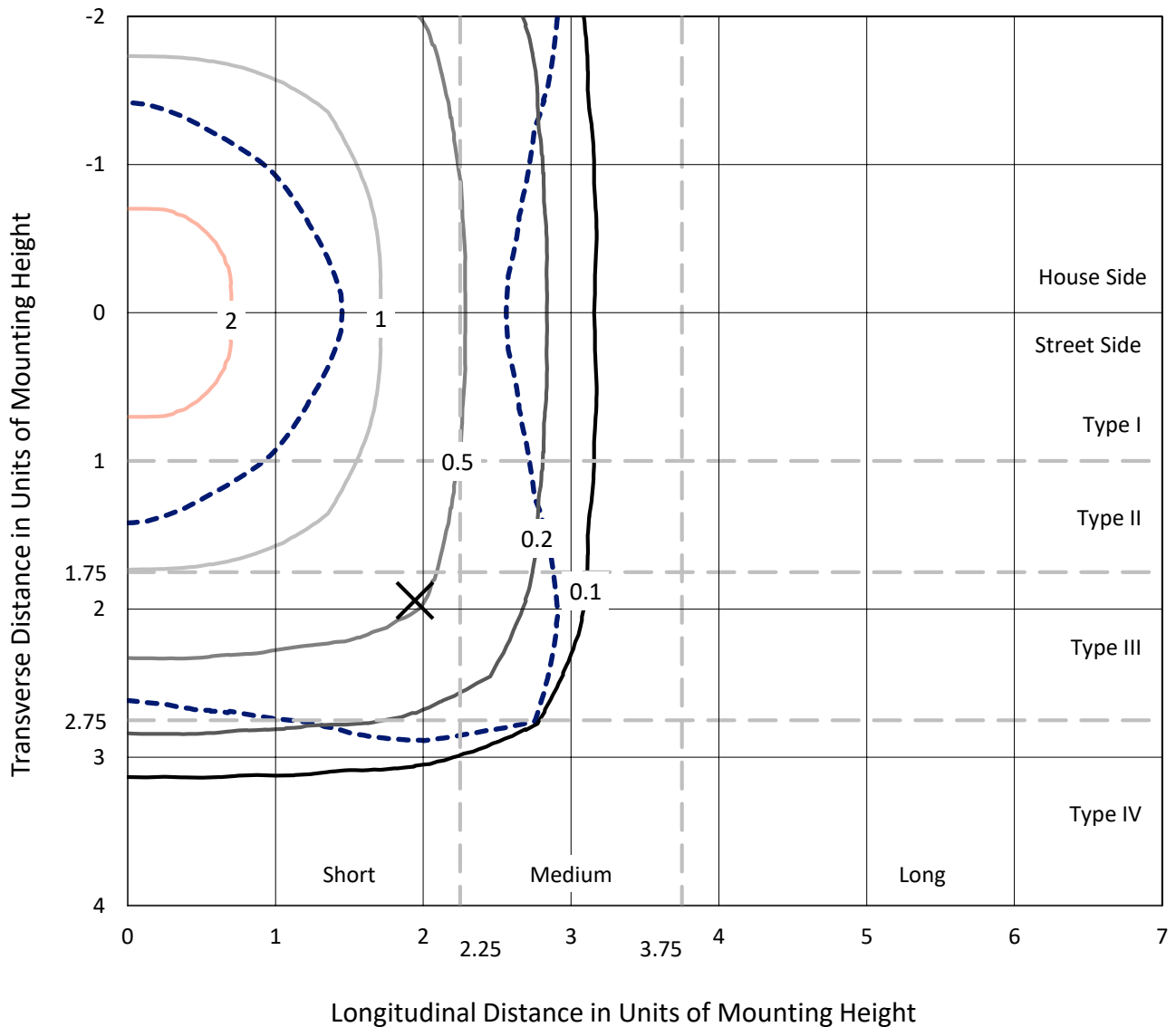
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

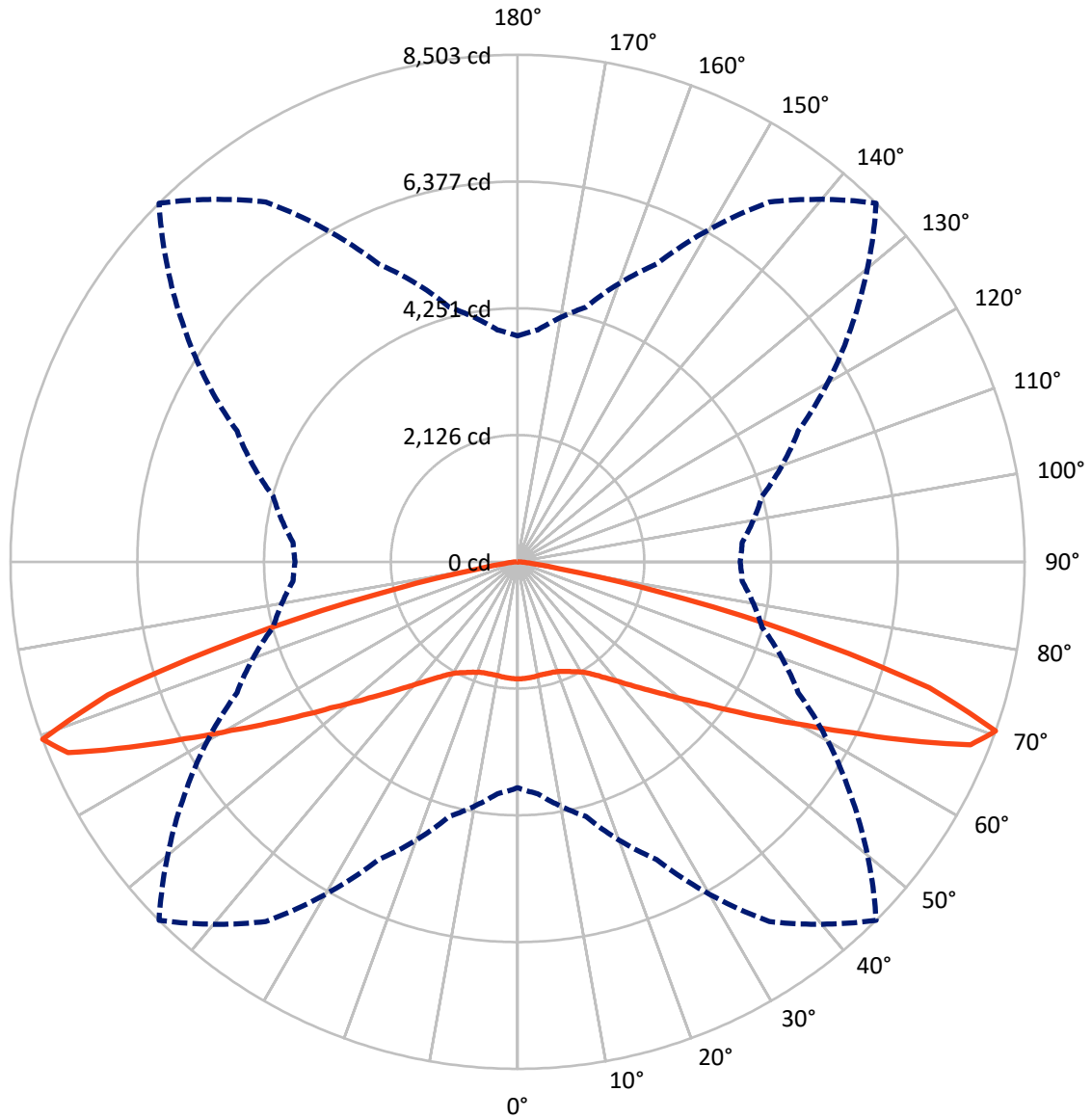
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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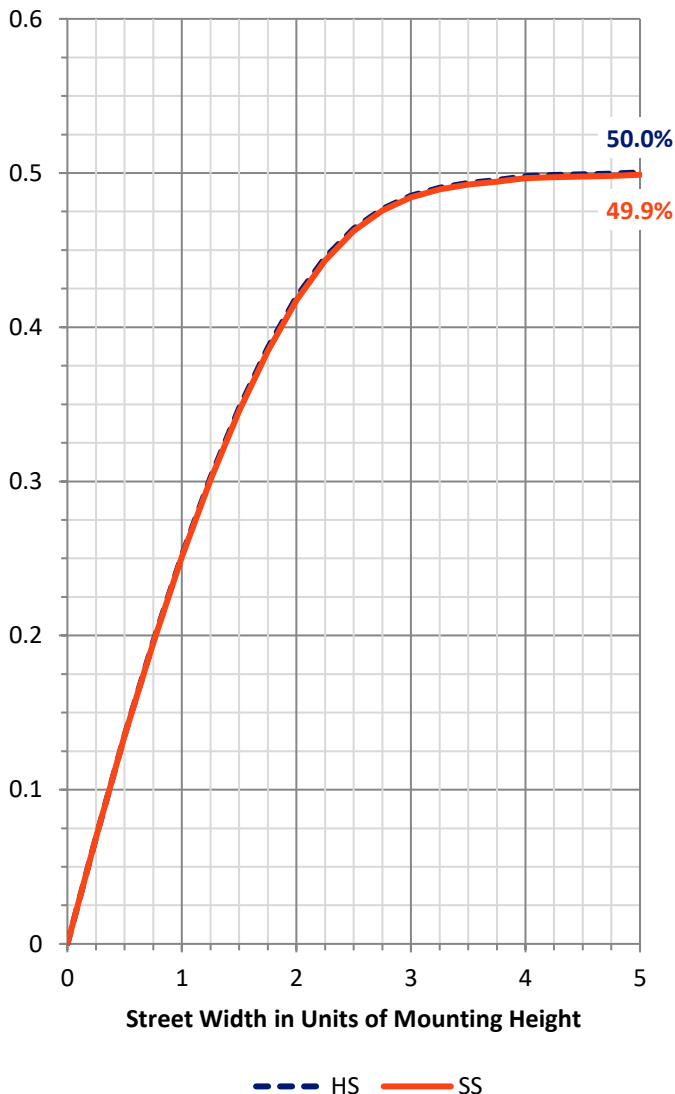
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8992.0	0.0	8992.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8992.0	0.0	8992.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17984.0	0.0	17984.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.0
10°-20°	546.1	3.0
20°-30°	929.7	5.2
30°-40°	1474.5	8.2
40°-50°	2399.4	13.3
50°-60°	3956.1	22.0
60°-70°	5807.7	32.3
70°-80°	2568.2	14.3
80°-90°	116.3	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°	17984.0	100.0
0°-180°	17984.0	100.0

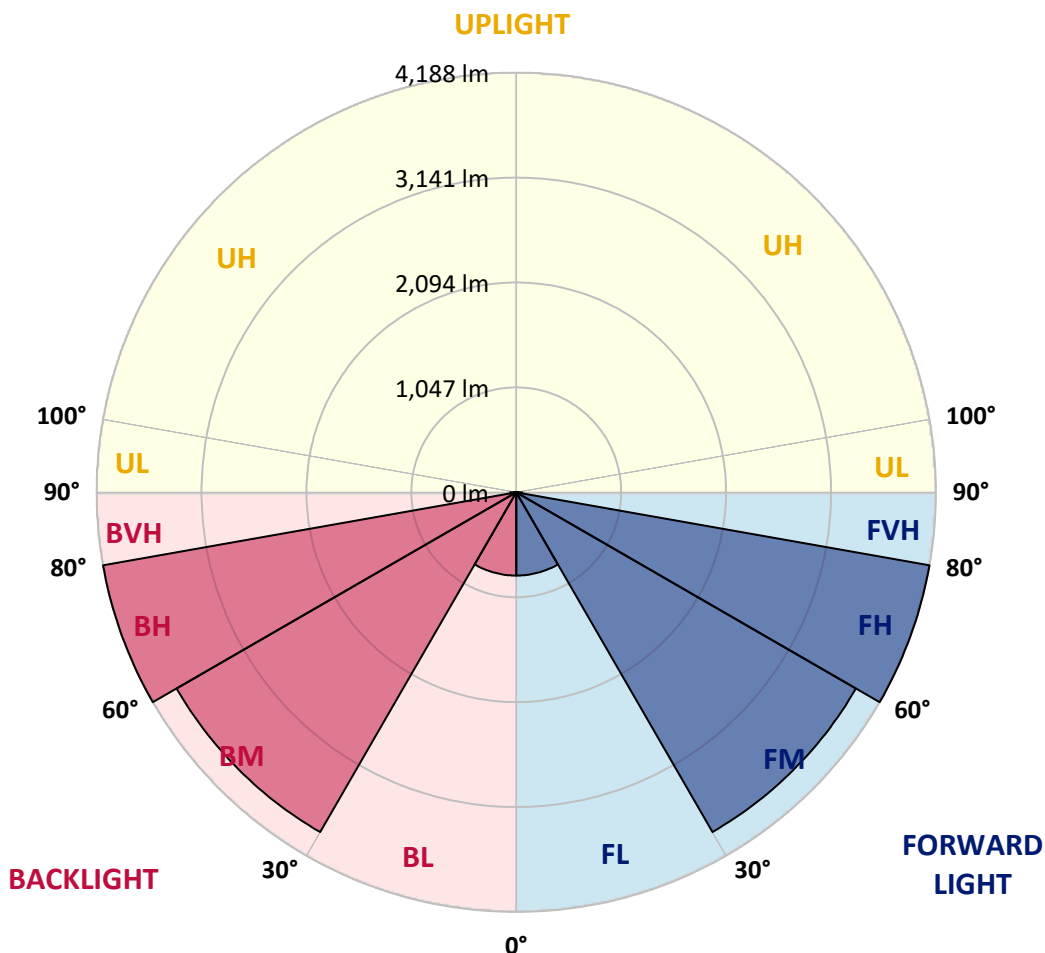


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.9	4.6			
FM (30°-60°)	3915.0	21.8			
FH (60°-80°)	4187.9	23.3			G2/5000
FVH (80°-90°)	58.2	0.3			G1/100
BL (0°-30°)	830.9	4.6	B2/1000		
BM (30°-60°)	3915.0	21.8	B3/5000		
BH (60°-80°)	4187.9	23.3	B4/5000		G2/5000
BVH (80°-90°)	58.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1
2.5°	1961.2	1959.4	1963.5	1962.9	1959.4	1960.0	1960.0	1961.8	1961.8	1960.6	1960.6
5°	1954.0	1952.8	1957.6	1957.6	1954.0	1955.2	1956.4	1958.2	1957.6	1956.4	1955.8
7.5°	1945.1	1944.5	1949.3	1949.3	1946.9	1948.1	1946.9	1947.5	1946.3	1945.1	1943.3
10°	1930.2	1931.4	1935.6	1936.8	1936.8	1937.3	1936.2	1933.2	1931.4	1929.6	1927.8
12.5°	1916.5	1915.9	1921.9	1924.9	1929.6	1935.0	1931.4	1923.1	1919.5	1915.9	1914.7
15°	1907.6	1908.2	1914.1	1919.5	1927.8	1939.1	1935.0	1921.9	1914.7	1910.6	1909.4
17.5°	1905.8	1907.0	1914.7	1924.3	1933.2	1945.7	1943.3	1930.2	1918.3	1910.6	1908.8
20°	1910.0	1910.6	1922.5	1936.2	1951.6	1963.5	1958.2	1943.9	1927.8	1915.9	1912.9
22.5°	1917.7	1920.1	1935.0	1956.4	1980.2	1996.3	1989.7	1965.3	1940.3	1925.4	1921.3
25°	1942.1	1942.7	1962.9	1992.1	2020.7	2039.1	2031.4	1996.9	1964.7	1948.1	1942.7
27.5°	1992.7	1994.5	2014.7	2048.6	2073.1	2085.0	2080.2	2052.2	2024.8	2007.0	2008.8
30°	2065.9	2068.3	2090.9	2128.4	2143.3	2146.3	2145.1	2132.0	2107.0	2083.2	2085.0
32.5°	2155.2	2156.4	2186.7	2220.7	2232.6	2234.9	2232.6	2220.7	2190.9	2158.8	2160.5
35°	2270.1	2273.6	2302.8	2335.5	2345.1	2349.8	2345.7	2330.2	2299.2	2267.7	2266.5
37.5°	2411.7	2412.3	2442.7	2476.6	2488.5	2489.7	2484.9	2474.8	2436.1	2407.6	2405.8
40°	2576.0	2578.4	2614.1	2650.4	2655.2	2649.8	2656.3	2650.4	2610.5	2577.8	2583.1
42.5°	2776.0	2781.3	2824.2	2859.9	2846.2	2843.2	2847.4	2849.2	2817.0	2777.2	2773.6
45°	3008.7	3013.5	3067.0	3095.6	3086.7	3067.0	3075.4	3089.6	3045.0	2995.6	3000.4
47.5°	3274.1	3286.1	3343.2	3370.0	3348.0	3321.2	3337.2	3358.7	3306.3	3245.0	3242.0
50°	3569.4	3584.2	3660.4	3697.9	3675.9	3626.5	3653.3	3667.6	3592.0	3512.8	3506.3
52.5°	3884.2	3899.1	3994.9	4072.3	4058.0	3981.2	4018.7	4003.9	3917.0	3810.4	3802.1
55°	4240.7	4246.7	4350.3	4475.2	4489.5	4433.0	4430.6	4406.2	4277.6	4154.4	4148.5
57.5°	4607.4	4611.5	4745.5	4893.1	4960.3	4960.3	4893.7	4841.9	4671.1	4528.2	4513.3
60°	5003.2	5018.1	5166.3	5366.8	5524.0	5570.4	5452.6	5311.5	5125.8	4951.4	4934.1
62.5°	5355.5	5372.8	5599.6	5898.3	6150.7	6319.7	6031.7	5801.9	5463.9	5184.1	5151.4
65°	5400.2	5446.6	5776.9	6318.0	6882.8	7220.3	6667.9	6101.9	5485.9	5097.2	5063.9
67.5°	4931.8	5010.3	5456.7	6298.9	7466.1	8190.4	7074.4	5930.5	5090.7	4660.9	4624.0
70°	3789.6	3903.9	4418.7	5509.7	7365.5	8502.9	6819.7	5191.9	4244.3	3781.8	3730.1
72.5°	2079.0	2126.0	2589.1	3772.9	5904.9	7225.6	5688.2	3839.0	2814.7	2290.3	2203.4
75°	659.5	676.1	911.8	1543.9	3340.2	4785.9	3613.4	1884.4	1037.4	764.8	755.9
77.5°	292.8	294.6	329.7	450.6	1150.5	2424.8	1382.0	513.1	353.5	308.9	319.0
80°	185.1	185.1	204.2	223.2	313.1	704.1	373.8	244.0	208.3	193.4	197.6
82.5°	88.7	98.2	132.7	142.8	172.0	236.9	191.7	159.5	139.3	103.6	96.4
85°	58.3	48.8	83.9	94.6	100.0	113.7	111.3	105.3	91.1	51.8	57.7
87.5°	26.2	25.0	43.4	39.9	37.5	28.6	42.9	53.0	51.2	25.6	25.6
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)