

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: P316298

Luminaire Tested: **GAN-SA4D-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316298
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-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 24235 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

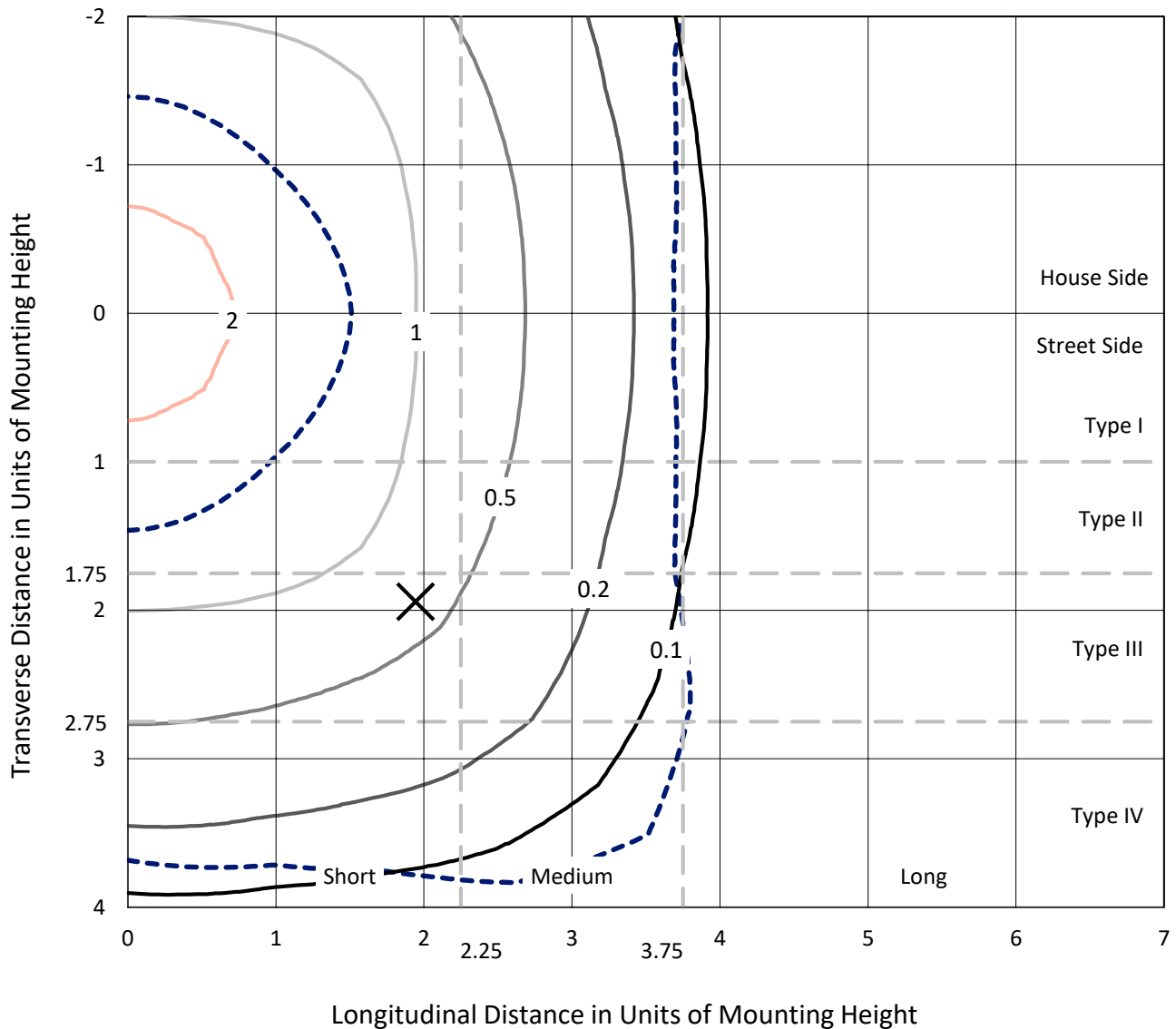
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

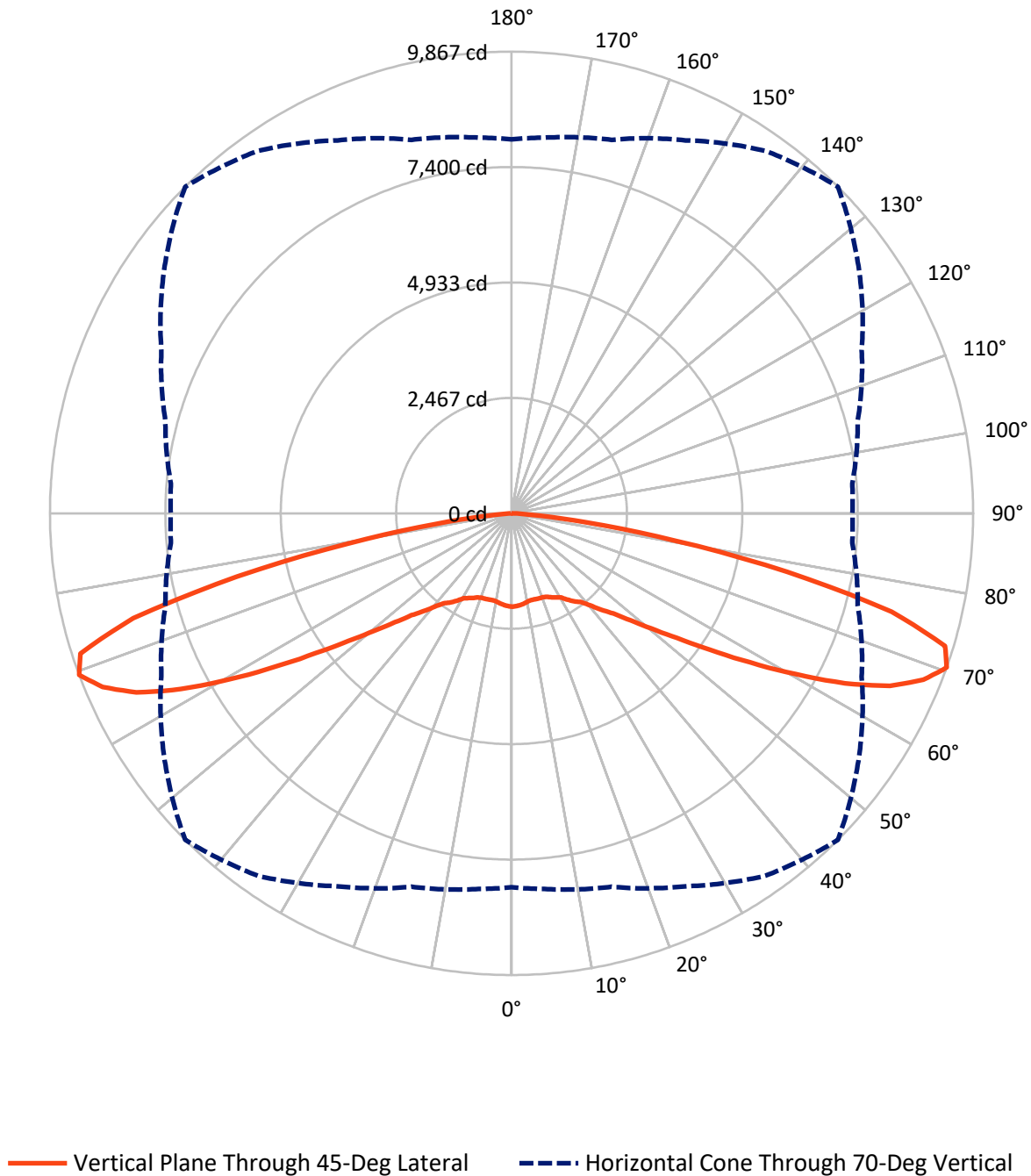
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	12117.5	0.0	12117.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12117.5	0.0	12117.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24235.0	0.0	24235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	0.8
10°-20°	543.8	2.2
20°-30°	927.1	3.8
30°-40°	1448.6	6.0
40°-50°	2455.1	10.1
50°-60°	4477.1	18.5
60°-70°	7707.6	31.8
70°-80°	6041.5	24.9
80°-90°	448.0	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°	24235.0	100.0
0°-180°	24235.0	100.0

Coefficient of Utilization



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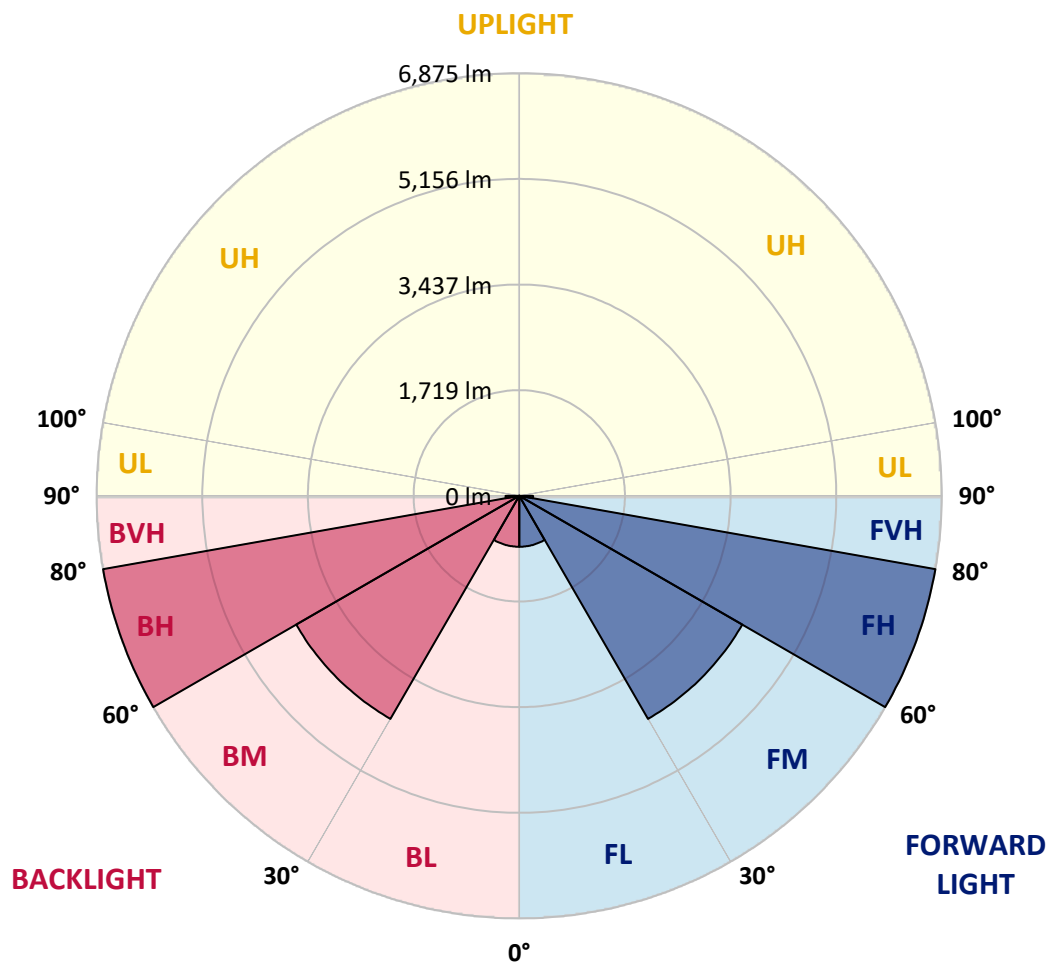
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.5	3.4			
FM	(30°-60°)	4190.4	17.3			
FH	(60°-80°)	6874.6	28.4			G3/7500
FVH	(80°-90°)	224.0	0.9			G2/225
BL	(0°-30°)	828.5	3.4	B2/1000		
BM	(30°-60°)	4190.4	17.3	B3/5000		
BH	(60°-80°)	6874.6	28.4	B5		G3/7500
BVH	(80°-90°)	224.0	0.9			G2/225
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°	1994.5	1994.5	1994.5	1994.5	1994.5	1994.5	1994.5	1994.5	1994.5	1994.5	1994.5
2.5°	1985.7	1988.1	1985.7	1987.3	1983.3	1984.9	1984.9	1984.9	1984.1	1984.9	1983.3
5°	1968.1	1969.7	1966.5	1968.1	1965.7	1968.1	1968.9	1968.1	1966.5	1967.3	1964.1
7.5°	1941.6	1943.2	1940.8	1943.2	1940.0	1944.0	1943.2	1940.8	1938.4	1938.4	1935.2
10°	1927.2	1928.0	1921.6	1919.2	1912.0	1913.6	1916.0	1918.4	1920.8	1925.6	1924.8
12.5°	1928.0	1928.0	1918.4	1908.0	1897.5	1899.9	1904.0	1912.8	1922.4	1931.2	1932.0
15°	1936.0	1935.2	1920.8	1904.0	1896.7	1904.0	1906.4	1912.0	1927.2	1942.4	1943.2
17.5°	1941.6	1941.6	1919.2	1899.9	1899.1	1910.4	1909.6	1912.0	1928.8	1951.3	1952.1
20°	1952.1	1952.1	1923.2	1902.4	1902.4	1914.4	1915.2	1919.2	1936.0	1960.9	1964.9
22.5°	1975.3	1976.1	1945.6	1928.8	1930.4	1937.6	1940.0	1946.4	1961.7	1988.9	1993.7
25°	2008.2	2009.8	1978.5	1968.9	1974.5	1988.1	1986.5	1991.3	2008.2	2034.6	2039.4
27.5°	2053.9	2049.9	2021.0	2017.0	2022.6	2032.2	2031.4	2032.2	2045.9	2069.9	2075.5
30°	2113.2	2111.6	2090.7	2093.1	2090.7	2087.5	2088.3	2094.8	2102.0	2121.2	2126.8
32.5°	2170.9	2172.5	2159.7	2171.7	2189.3	2201.4	2182.9	2165.3	2157.3	2167.7	2172.5
35°	2275.1	2279.1	2259.1	2251.1	2275.1	2310.4	2258.3	2229.4	2245.5	2259.1	2263.1
37.5°	2452.3	2454.7	2421.0	2389.0	2371.3	2405.0	2352.9	2355.3	2411.4	2437.1	2436.3
40°	2654.3	2655.1	2632.7	2604.6	2574.1	2582.2	2561.3	2567.7	2604.6	2627.9	2634.3
42.5°	2894.8	2892.4	2857.1	2817.1	2808.2	2816.3	2781.0	2776.2	2818.7	2860.3	2861.1
45°	3206.7	3201.1	3155.4	3111.3	3068.8	3051.1	3042.3	3065.6	3124.1	3162.6	3163.4
47.5°	3542.6	3527.3	3503.3	3468.0	3431.1	3413.5	3399.1	3410.3	3452.8	3468.0	3469.6
50°	3888.1	3891.3	3896.1	3882.5	3868.8	3863.2	3825.5	3803.9	3816.7	3788.7	3784.7
52.5°	4297.7	4304.1	4350.6	4389.9	4413.2	4425.2	4353.8	4279.3	4237.6	4183.1	4167.1
55°	4781.1	4791.6	4859.7	4968.7	5081.0	5140.3	5011.2	4871.7	4742.7	4640.8	4608.0
57.5°	5319.9	5338.3	5432.1	5641.3	5871.4	6011.7	5793.6	5540.3	5291.0	5144.3	5118.6
60°	5951.6	5969.2	6099.1	6398.9	6771.7	6982.5	6652.2	6237.8	5927.5	5787.2	5739.9
62.5°	6703.5	6705.1	6864.7	7215.0	7707.2	8000.6	7553.3	6999.3	6679.5	6510.3	6464.6
65°	7512.4	7516.4	7681.6	8059.9	8569.0	8888.1	8383.0	7805.8	7414.6	7165.3	7130.0
67.5°	8084.0	8100.8	8274.8	8730.1	9206.3	9494.1	8971.4	8318.9	7866.7	7569.3	7539.7
70°	7992.6	8058.3	8262.8	8794.3	9456.4	9866.9	9066.8	8258.0	7661.5	7310.4	7285.5
72.5°	6970.5	7096.3	7368.9	8066.4	9125.4	9690.5	8546.6	7396.2	6721.2	6422.1	6377.2
75°	4746.7	4951.1	5362.3	6368.4	7796.2	8390.2	7194.9	5897.1	5262.1	4848.5	4818.0
77.5°	2116.4	2162.9	2684.0	3842.4	5380.0	6025.3	5227.7	3857.6	2895.6	2309.6	2186.1
80°	590.0	597.2	796.9	1431.0	2692.8	3540.2	2890.8	1503.1	845.0	595.6	561.2
82.5°	187.6	203.6	248.5	371.2	905.1	1615.4	929.1	400.8	285.4	227.7	205.2
85°	91.4	90.6	125.9	150.7	230.9	357.5	246.1	186.0	162.7	108.2	97.8
87.5°	38.5	39.3	58.5	52.9	67.3	57.7	79.4	83.4	87.4	48.1	41.7
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)