

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: P509123

Luminaire Tested: **VERD-CA2-110-740-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-740-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17109 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

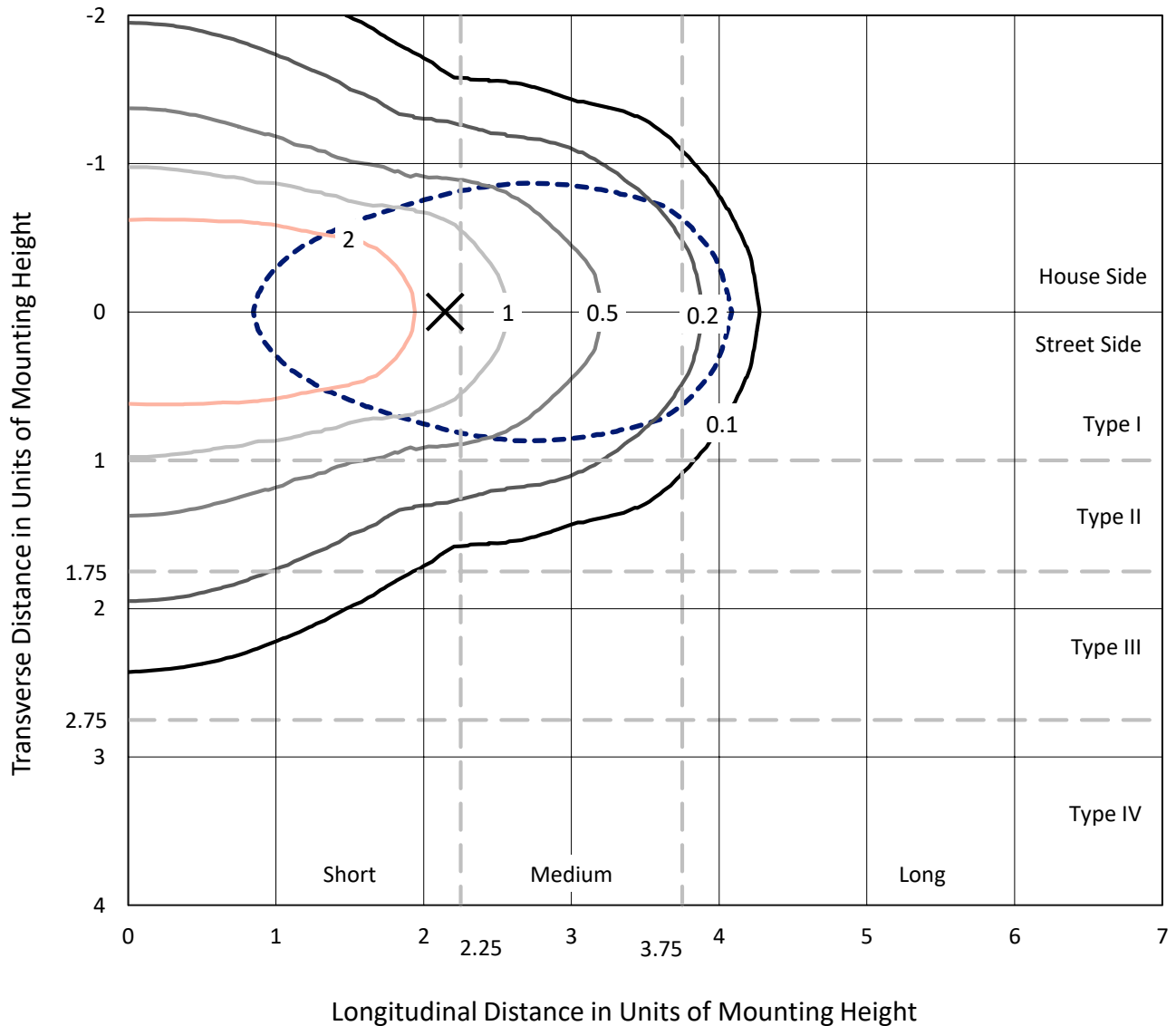
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

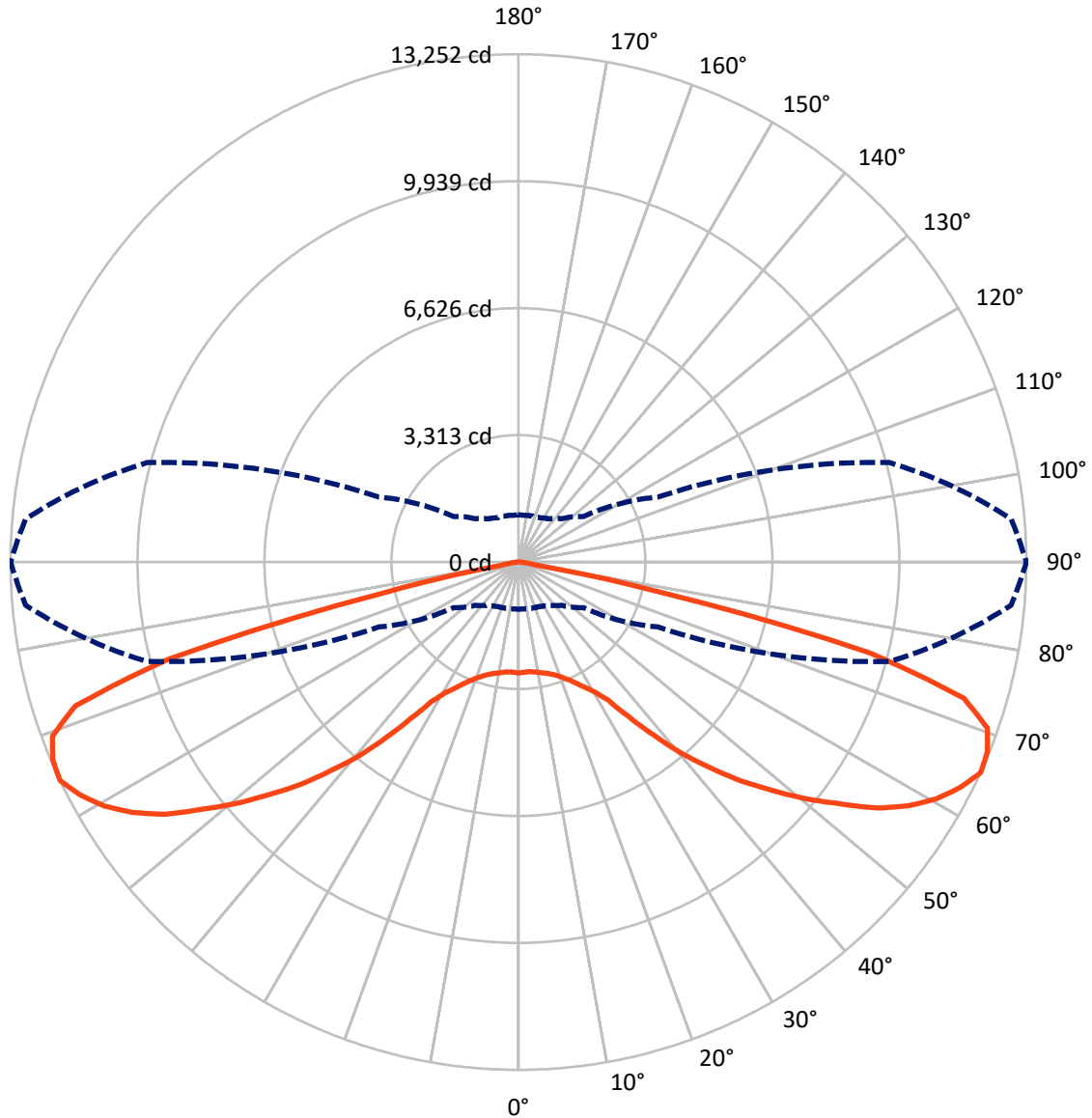
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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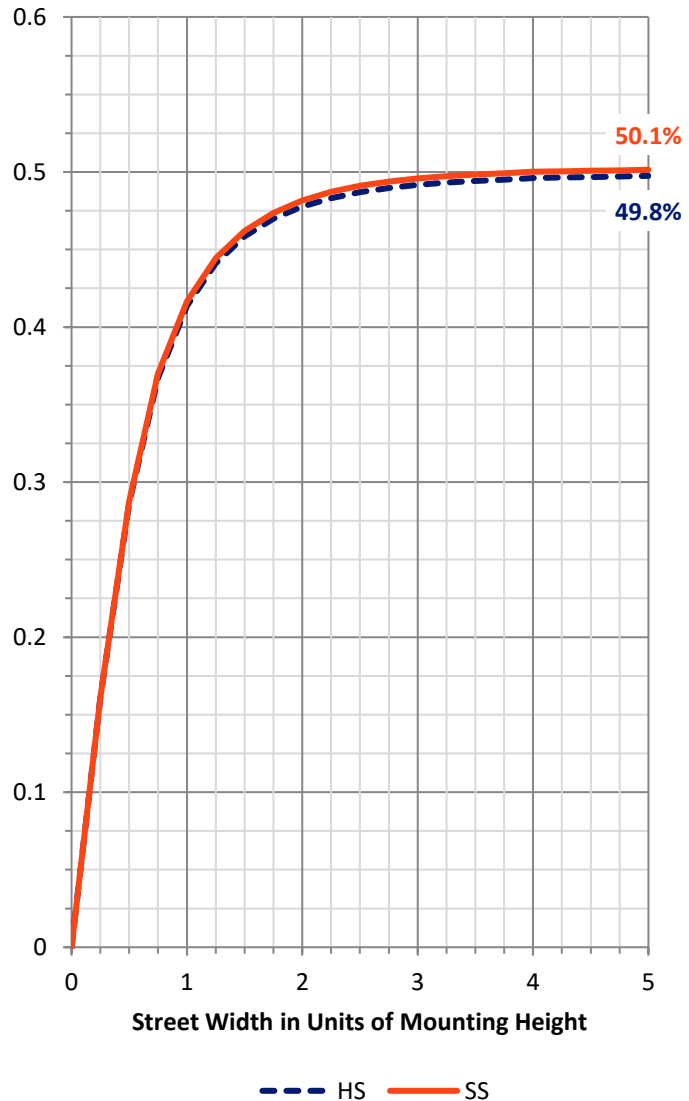
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8554.5	0.0	8554.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8554.5	0.0	8554.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17109.0	0.0	17109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.6	1.6
10°-20°	817.8	4.8
20°-30°	1350.5	7.9
30°-40°	1993.4	11.7
40°-50°	2900.4	17.0
50°-60°	3712.7	21.7
60°-70°	3882.5	22.7
70°-80°	2094.6	12.2
80°-90°	82.5	0.5
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°	17109.0	100.0
0°-180°	17109.0	100.0

Coefficient of Utilization



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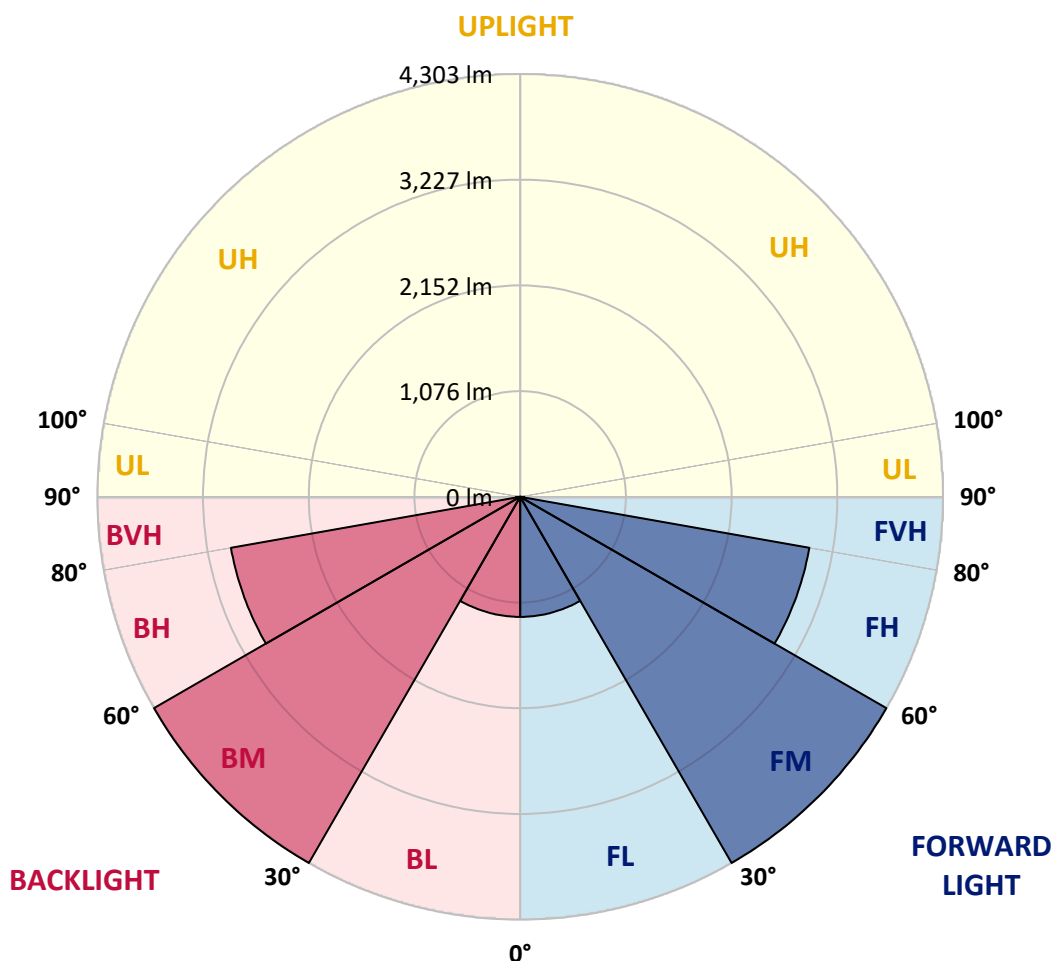
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1221.5	7.1			
FM	(30°-60°)	4303.2	25.2			
FH	(60°-80°)	2988.6	17.5			G2/5000
FVH	(80°-90°)	41.2	0.2			G1/100
BL	(0°-30°)	1221.5	7.1	B3/2500		
BM	(30°-60°)	4303.2	25.2	B3/5000		
BH	(60°-80°)	2988.6	17.5	B4/5000		G4/5000
BVH	(80°-90°)	41.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7	2894.7
2.5°	2879.1	2889.5	2894.7	2893.0	2882.5	2882.5	2882.5	2882.5	2879.1	2877.3	2879.1
5°	2858.1	2866.9	2877.3	2872.1	2866.9	2872.1	2872.1	2872.1	2873.8	2873.8	2873.8
7.5°	2840.7	2852.9	2858.1	2865.1	2852.9	2866.9	2887.8	2891.2	2893.0	2893.0	2893.0
10°	2825.0	2835.5	2849.4	2847.7	2852.9	2873.8	2896.5	2922.6	2924.4	2929.6	2929.6
12.5°	2786.7	2800.6	2816.3	2826.8	2833.7	2882.5	2905.2	2938.3	2964.4	2967.9	2969.7
15°	2739.6	2748.3	2765.8	2790.2	2826.8	2879.1	2929.6	2971.4	3013.2	3023.7	3023.7
17.5°	2668.2	2678.6	2703.0	2737.9	2804.1	2889.5	2969.7	3025.4	3077.7	3093.4	3096.9
20°	2570.6	2589.8	2622.9	2683.9	2772.7	2896.5	3013.2	3096.9	3164.9	3199.7	3201.5
22.5°	2453.8	2467.8	2527.0	2614.2	2739.6	2896.5	3058.6	3180.5	3274.7	3328.7	3333.9
25°	2326.6	2338.8	2415.5	2537.5	2697.8	2898.2	3103.9	3272.9	3419.3	3490.8	3497.7
27.5°	2211.6	2223.8	2310.9	2459.0	2661.2	2903.4	3152.7	3386.2	3590.1	3686.0	3705.1
30°	2105.3	2110.5	2209.8	2373.6	2621.1	2906.9	3211.9	3509.9	3769.6	3924.7	3935.2
32.5°	2005.9	2019.9	2112.2	2288.3	2574.1	2912.2	3290.3	3686.0	4057.2	4290.7	4299.4
35°	1917.0	1929.2	2021.6	2201.1	2511.3	2926.1	3375.7	3910.8	4473.7	4881.5	4949.5
37.5°	1845.6	1857.8	1939.7	2108.7	2446.8	2922.6	3487.3	4184.4	4982.6	5627.4	5730.2
40°	1788.1	1802.0	1868.2	2021.6	2361.4	2896.5	3604.0	4480.7	5536.8	6413.4	6566.7
42.5°	1739.3	1751.5	1809.0	1944.9	2269.1	2854.7	3708.6	4749.0	6071.8	7213.3	7335.3
45°	1683.5	1697.5	1753.2	1880.4	2183.7	2790.2	3778.3	5012.2	6613.8	7973.2	8147.4
47.5°	1646.9	1655.6	1699.2	1817.7	2087.8	2689.1	3790.5	5198.7	7194.1	8776.6	8896.8
50°	1613.8	1612.1	1650.4	1755.0	1999.0	2560.1	3726.0	5343.3	7746.6	9526.0	9705.5
52.5°	1566.7	1568.5	1599.9	1694.0	1911.8	2410.2	3572.7	5379.9	8314.7	10277.1	10472.3
55°	1511.0	1516.2	1545.8	1624.3	1822.9	2262.1	3311.3	5313.7	8926.5	11019.5	11333.2
57.5°	1457.0	1453.5	1483.1	1552.8	1727.1	2112.2	3013.2	5144.6	9513.8	11800.3	11997.2
60°	1394.2	1397.7	1418.6	1476.1	1626.0	1953.6	2680.4	4851.9	9909.4	12403.3	12540.9
62.5°	1322.8	1322.8	1341.9	1385.5	1509.2	1781.1	2361.4	4465.0	10132.4	12717.0	12945.3
65°	1232.1	1226.9	1247.8	1279.2	1373.3	1596.4	2070.4	4010.1	10022.7	12906.9	13252.0
67.5°	1134.5	1124.1	1134.5	1148.5	1218.2	1397.7	1775.9	3598.8	9510.3	12784.9	13199.7
70°	1007.3	993.4	998.6	998.6	1045.7	1165.9	1488.3	3250.3	8340.9	12391.1	12980.1
72.5°	824.3	819.1	827.8	820.8	855.7	935.9	1233.9	2826.8	6796.8	11446.5	12154.1
75°	501.9	508.9	536.8	585.6	616.9	677.9	902.8	2236.0	5146.4	8635.4	9480.7
77.5°	209.1	233.5	257.9	266.6	301.5	294.5	407.8	1014.3	2084.3	3438.5	3722.5
80°	69.7	71.5	158.6	176.0	193.4	158.6	155.1	339.8	596.0	503.7	423.5
82.5°	41.8	45.3	87.1	94.1	81.9	85.4	90.6	115.0	111.5	181.2	205.6
85°	20.9	22.7	38.3	43.6	43.6	52.3	52.3	55.8	62.7	109.8	118.5
87.5°	5.2	5.2	10.5	15.7	17.4	20.9	20.9	24.4	27.9	40.1	47.1
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)