

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: P509115

Luminaire Tested: **VERD-CA2-110-730-U-T1**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509115
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-CA2-110-730-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16799 lumens
Efficiency: N/A
Efficacy: 147.9 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

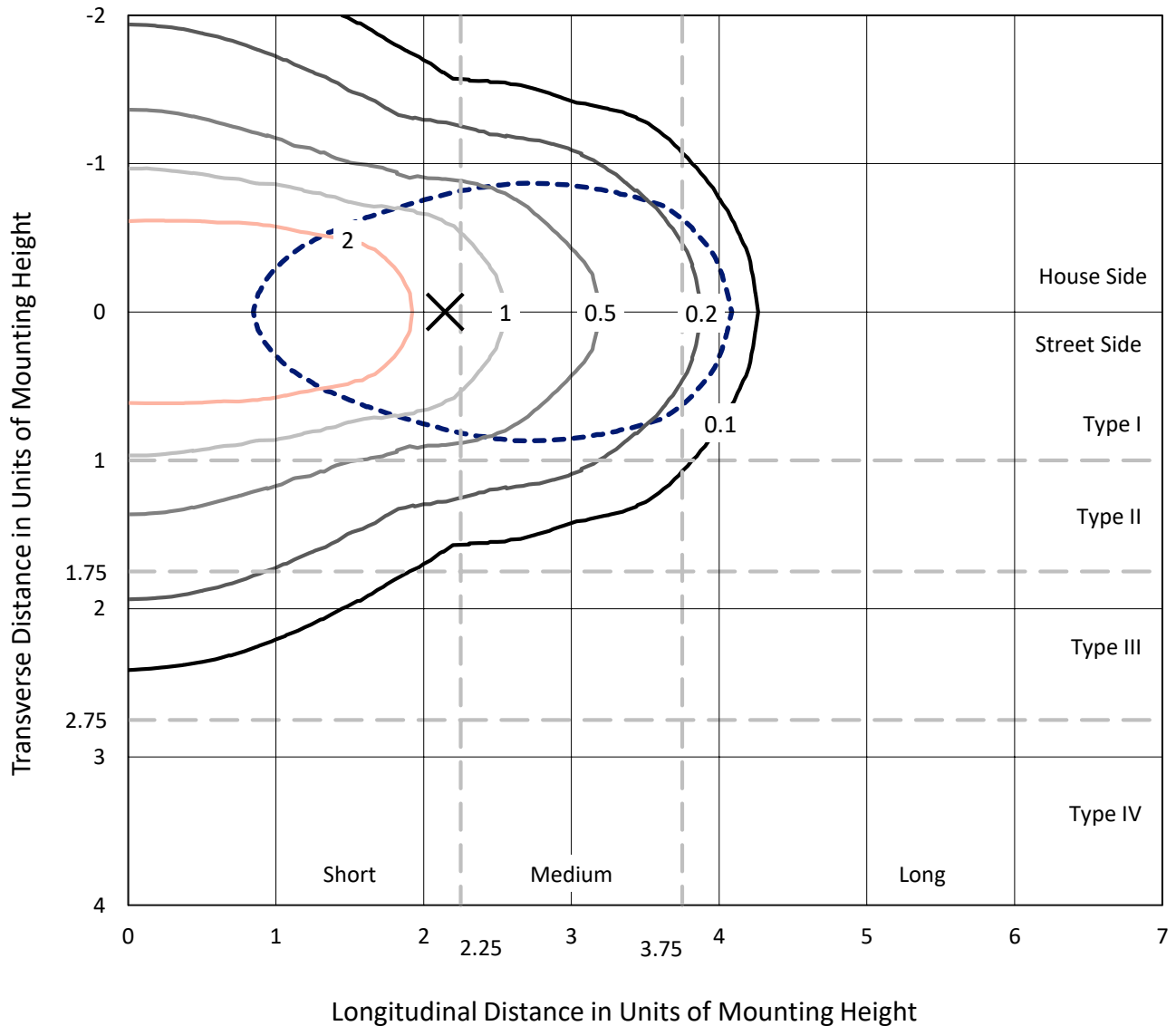
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

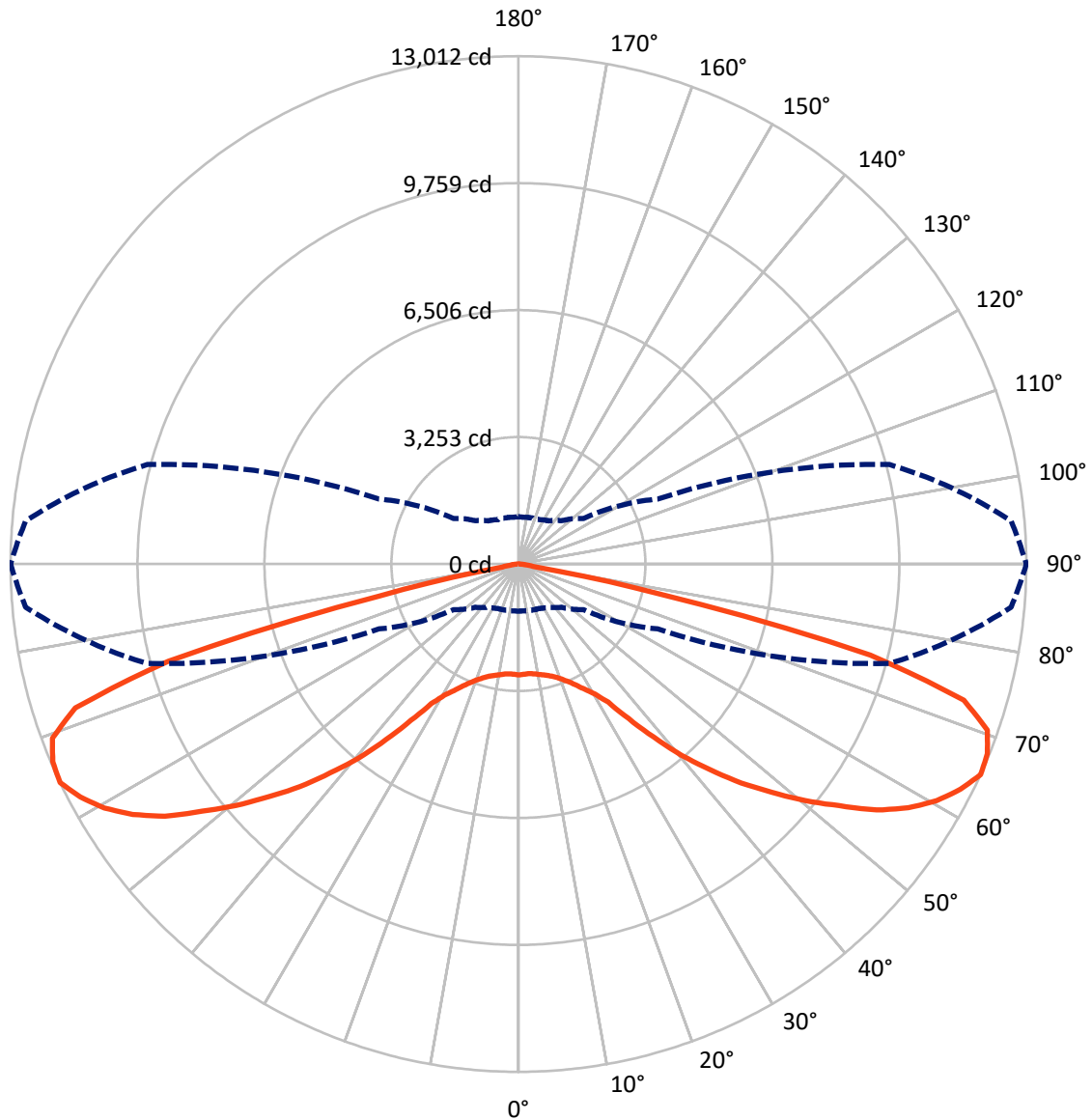
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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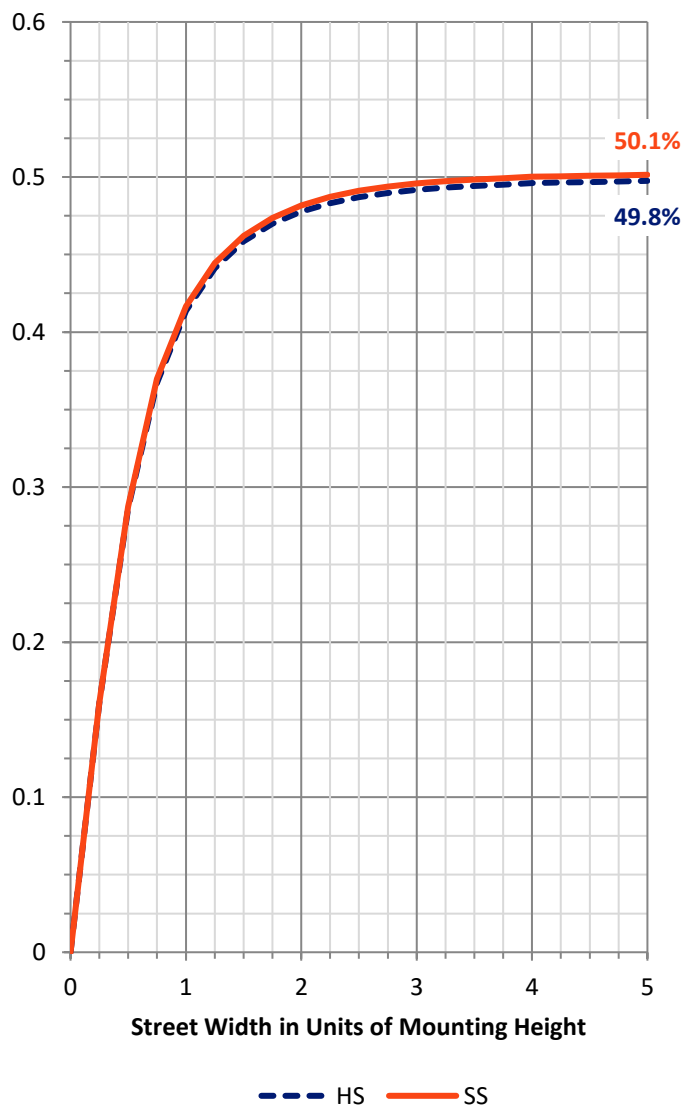
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8399.5	0.0	8399.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8399.5	0.0	8399.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16799.0	0.0	16799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	1.6
10°-20°	803.0	4.8
20°-30°	1326.1	7.9
30°-40°	1957.3	11.7
40°-50°	2847.8	17.0
50°-60°	3645.4	21.7
60°-70°	3812.2	22.7
70°-80°	2056.7	12.2
80°-90°	81.0	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°	16799.0	100.0
0°-180°	16799.0	100.0

Coefficient of Utilization



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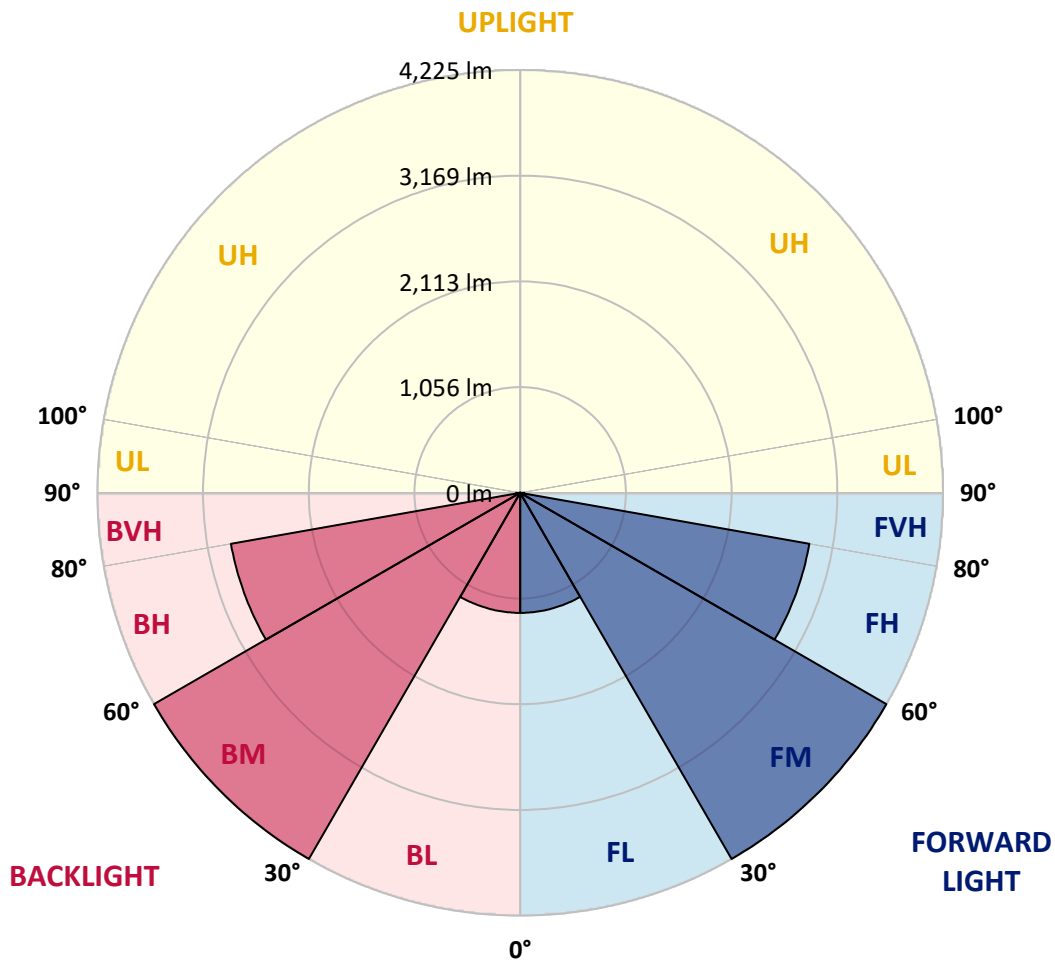
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1199.3	7.1			
FM	(30°-60°)	4225.3	25.2			
FH	(60°-80°)	2934.4	17.5			G2/5000
FVH	(80°-90°)	40.5	0.2			G1/100
BL	(0°-30°)	1199.3	7.1	B3/2500		
BM	(30°-60°)	4225.3	25.2	B3/5000		
BH	(60°-80°)	2934.4	17.5	B4/5000		G4/5000
BVH	(80°-90°)	40.5	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°	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3
2.5°	2826.9	2837.2	2842.3	2840.6	2830.3	2830.3	2830.3	2830.3	2826.9	2825.2	2826.9
5°	2806.4	2814.9	2825.2	2820.0	2814.9	2820.0	2820.0	2820.0	2821.8	2821.8	2821.8
7.5°	2789.2	2801.2	2806.4	2813.2	2801.2	2814.9	2835.4	2838.9	2840.6	2840.6	2840.6
10°	2773.8	2784.1	2797.8	2796.1	2801.2	2821.8	2844.0	2869.7	2871.4	2876.5	2876.5
12.5°	2736.2	2749.9	2765.3	2775.5	2782.4	2830.3	2852.6	2885.1	2910.7	2914.2	2915.9
15°	2690.0	2698.5	2715.7	2739.6	2775.5	2826.9	2876.5	2917.6	2958.6	2968.9	2968.9
17.5°	2619.8	2630.1	2654.1	2688.3	2753.3	2837.2	2915.9	2970.6	3022.0	3037.4	3040.8
20°	2524.0	2542.8	2575.3	2635.2	2722.5	2844.0	2958.6	3040.8	3107.5	3141.7	3143.5
22.5°	2409.4	2423.0	2481.2	2566.8	2690.0	2844.0	3003.1	3122.9	3215.3	3268.4	3273.5
25°	2284.4	2296.4	2371.7	2491.5	2648.9	2845.7	3047.6	3213.6	3357.4	3427.5	3434.4
27.5°	2171.5	2183.5	2269.0	2414.5	2613.0	2850.8	3095.5	3324.8	3525.0	3619.2	3638.0
30°	2067.1	2072.3	2169.8	2330.6	2573.6	2854.3	3153.7	3446.3	3701.3	3853.6	3863.9
32.5°	1969.6	1983.3	2074.0	2246.8	2527.4	2859.4	3230.7	3619.2	3983.6	4212.9	4221.5
35°	1882.3	1894.3	1985.0	2161.2	2465.8	2873.1	3314.6	3839.9	4392.6	4793.0	4859.8
37.5°	1812.1	1824.1	1904.6	2070.5	2402.5	2869.7	3424.1	4108.6	4892.3	5525.4	5626.4
40°	1755.7	1769.4	1834.4	1985.0	2318.7	2844.0	3538.7	4399.5	5436.4	6297.2	6447.8
42.5°	1707.8	1719.7	1776.2	1909.7	2228.0	2802.9	3641.4	4663.0	5961.8	7082.6	7202.4
45°	1653.0	1666.7	1721.5	1846.4	2144.1	2739.6	3709.9	4921.4	6494.0	7828.7	7999.8
47.5°	1617.1	1625.6	1668.4	1784.8	2050.0	2640.4	3721.8	5104.5	7063.8	8617.5	8735.6
50°	1584.6	1582.9	1620.5	1723.2	1962.7	2513.7	3658.5	5246.5	7606.2	9353.4	9529.6
52.5°	1538.4	1540.1	1570.9	1663.3	1877.2	2366.6	3507.9	5282.4	8164.1	10090.9	10282.5
55°	1483.6	1488.7	1517.8	1594.8	1789.9	2221.1	3251.3	5217.4	8764.7	10819.9	11127.9
57.5°	1430.6	1427.1	1456.2	1524.7	1695.8	2074.0	2958.6	5051.4	9341.4	11586.5	11779.8
60°	1369.0	1372.4	1392.9	1449.4	1596.5	1918.2	2631.8	4764.0	9729.8	12178.5	12313.7
62.5°	1298.8	1298.8	1317.6	1360.4	1481.9	1748.8	2318.7	4384.1	9948.9	12486.5	12710.7
65°	1209.8	1204.7	1225.2	1256.0	1348.4	1567.4	2032.9	3937.4	9841.0	12673.1	13011.9
67.5°	1114.0	1103.7	1114.0	1127.7	1196.1	1372.4	1743.7	3533.6	9338.0	12553.3	12960.5
70°	989.1	975.4	980.5	980.5	1026.7	1144.8	1461.4	3191.4	8189.8	12166.6	12744.9
72.5°	809.4	804.3	812.8	806.0	840.2	918.9	1211.5	2775.5	6673.6	11239.1	11933.8
75°	492.8	499.7	527.0	575.0	605.8	665.7	886.4	2195.5	5053.1	8478.9	9308.9
77.5°	205.3	229.3	253.3	261.8	296.0	289.2	400.4	995.9	2046.6	3376.2	3655.1
80°	68.4	70.2	155.7	172.8	189.9	155.7	152.3	333.7	585.2	494.5	415.8
82.5°	41.1	44.5	85.6	92.4	80.4	83.8	89.0	112.9	109.5	178.0	201.9
85°	20.5	22.2	37.6	42.8	42.8	51.3	51.3	54.8	61.6	107.8	116.4
87.5°	5.1	5.1	10.3	15.4	17.1	20.5	20.5	24.0	27.4	39.4	46.2
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)