

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: P509171

Luminaire Tested: **VERD-CA2-120-740-U-T1**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509171  
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-CA2-120-740-U-T1  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18251 lumens  
Efficiency: N/A  
Efficacy: 148.7 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

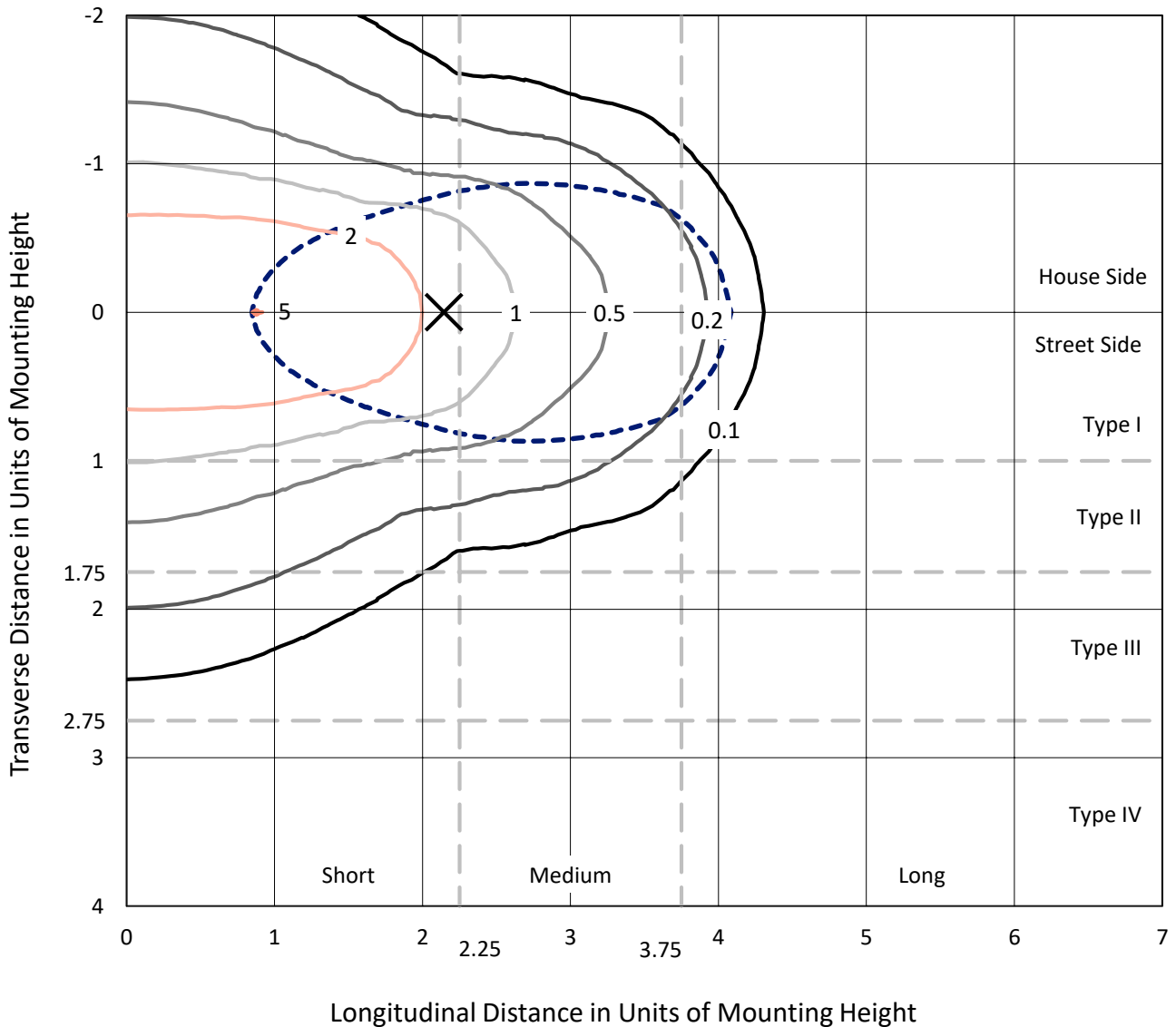
Input Watts (W): 122.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

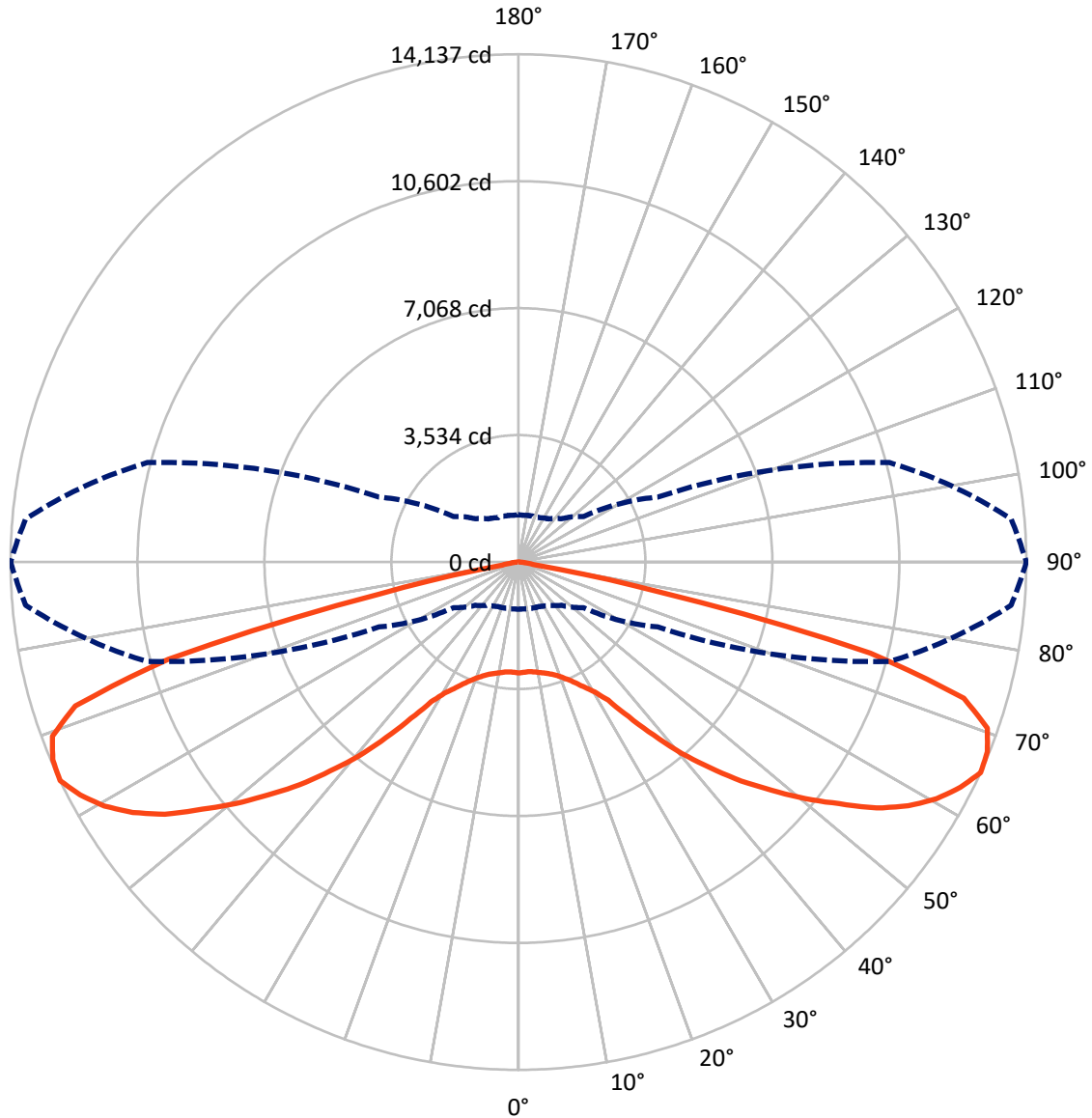
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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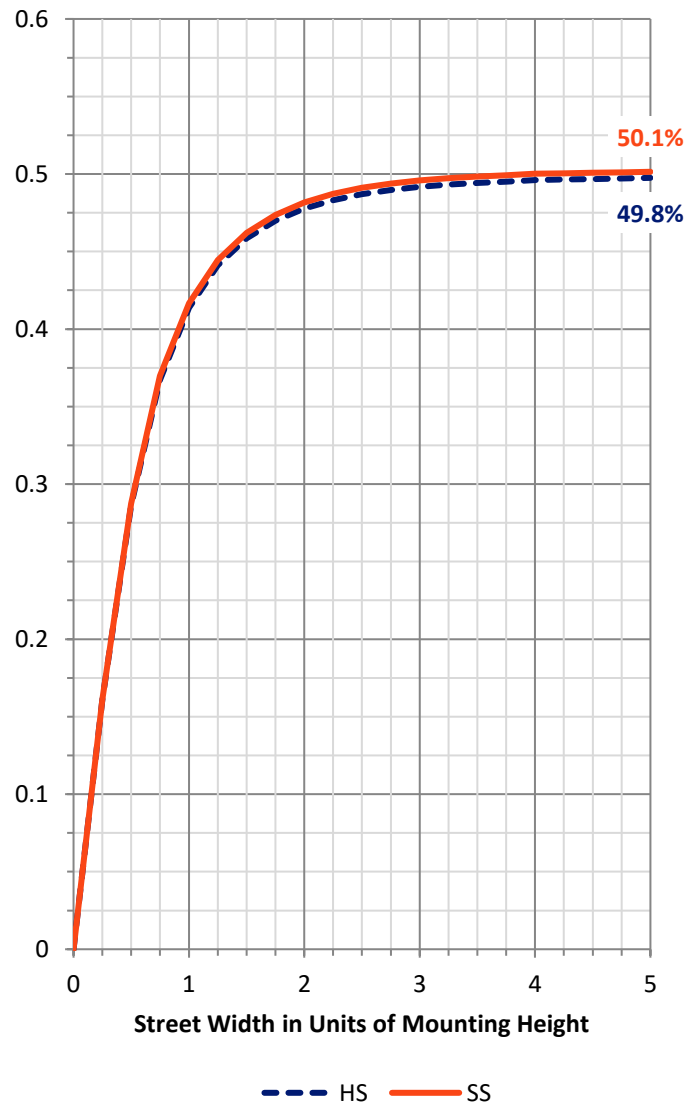
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9125.5	0.0	9125.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9125.5	0.0	9125.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18251.0	0.0	18251.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.9	1.6
10°-20°	872.4	4.8
20°-30°	1440.7	7.9
30°-40°	2126.4	11.7
40°-50°	3094.0	17.0
50°-60°	3960.5	21.7
60°-70°	4141.7	22.7
70°-80°	2234.4	12.2
80°-90°	88.0	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°	18251.0	100.0
0°-180°	18251.0	100.0



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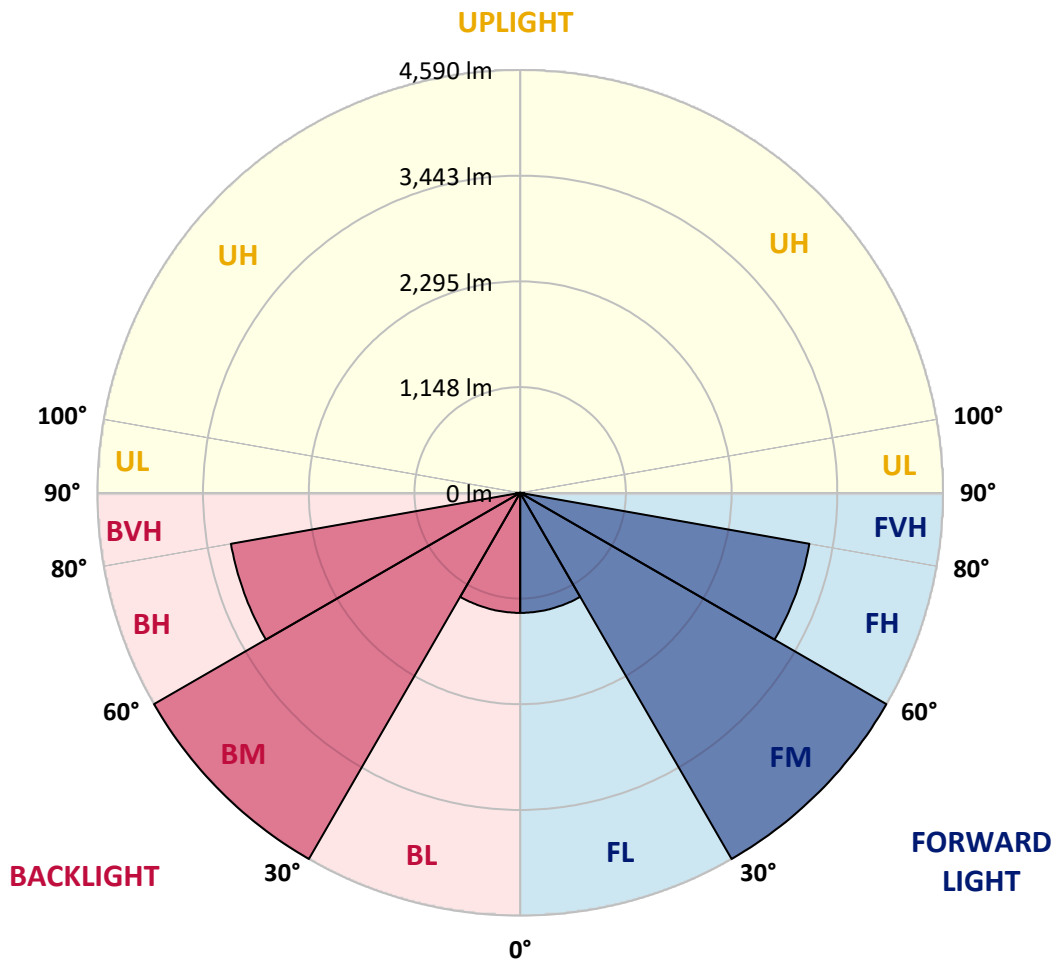
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.0	7.1			
FM (30°-60°)	4590.5	25.2			
FH (60°-80°)	3188.0	17.5			G2/5000
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	1303.0	7.1	B3/2500		
BM (30°-60°)	4590.5	25.2	B3/5000		
BH (60°-80°)	3188.0	17.5	B4/5000		G4/5000
BVH (80°-90°)	44.0	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°	3088.0	3088.0	3088.0	3088.0	3088.0	3088.0	3088.0	3088.0	3088.0	3088.0	3088.0
2.5°	3071.2	3082.4	3088.0	3086.1	3074.9	3074.9	3074.9	3074.9	3071.2	3069.4	3071.2
5°	3048.9	3058.2	3069.4	3063.8	3058.2	3063.8	3063.8	3063.8	3065.6	3065.6	3065.6
7.5°	3030.3	3043.3	3048.9	3056.4	3043.3	3058.2	3080.5	3084.2	3086.1	3086.1	3086.1
10°	3013.6	3024.7	3039.6	3037.8	3043.3	3065.6	3089.8	3117.7	3119.6	3125.1	3125.1
12.5°	2972.7	2987.6	3004.3	3015.5	3022.9	3074.9	3099.1	3134.4	3162.3	3166.0	3167.9
15°	2922.5	2931.8	2950.4	2976.4	3015.5	3071.2	3125.1	3169.8	3214.4	3225.5	3225.5
17.5°	2846.3	2857.4	2883.5	2920.6	2991.3	3082.4	3167.9	3227.4	3283.2	3299.9	3303.6
20°	2742.2	2762.6	2797.9	2863.0	2957.8	3089.8	3214.4	3303.6	3376.1	3413.3	3415.2
22.5°	2617.6	2632.5	2695.7	2788.6	2922.5	3089.8	3262.7	3392.8	3493.2	3550.9	3556.4
25°	2481.9	2494.9	2576.7	2706.8	2877.9	3091.7	3311.0	3491.4	3647.5	3723.8	3731.2
27.5°	2359.2	2372.2	2465.2	2623.2	2838.8	3097.3	3363.1	3612.2	3829.7	3932.0	3952.4
30°	2245.8	2251.4	2357.3	2532.1	2796.1	3101.0	3426.3	3744.2	4021.2	4186.7	4197.8
32.5°	2139.8	2154.7	2253.2	2441.0	2745.9	3106.5	3510.0	3932.0	4328.0	4577.1	4586.4
35°	2045.0	2058.0	2156.5	2348.0	2679.0	3121.4	3601.1	4171.8	4772.3	5207.3	5279.8
37.5°	1968.8	1981.8	2069.2	2249.5	2610.2	3117.7	3720.0	4463.7	5315.1	6003.0	6112.7
40°	1907.4	1922.3	1992.9	2156.5	2519.1	3089.8	3844.6	4779.7	5906.3	6841.5	7005.1
42.5°	1855.4	1868.4	1929.7	2074.7	2420.5	3045.2	3956.2	5066.0	6477.1	7694.8	7824.9
45°	1795.9	1810.8	1870.2	2006.0	2329.4	2976.4	4030.5	5346.8	7055.3	8505.4	8691.3
47.5°	1756.8	1766.1	1812.6	1939.0	2227.2	2868.6	4043.5	5545.7	7674.3	9362.4	9490.7
50°	1721.5	1719.7	1760.6	1872.1	2132.4	2731.0	3974.7	5700.0	8263.7	10161.8	10353.3
52.5°	1671.3	1673.2	1706.6	1807.0	2039.4	2571.1	3811.1	5739.0	8869.7	10963.1	11171.3
55°	1611.8	1617.4	1649.0	1732.7	1944.6	2413.1	3532.3	5668.4	9522.3	11755.0	12089.7
57.5°	1554.2	1550.5	1582.1	1656.5	1842.4	2253.2	3214.4	5488.0	10148.8	12587.9	12798.0
60°	1487.3	1491.0	1513.3	1574.7	1734.5	2084.0	2859.3	5175.7	10570.8	13231.2	13378.0
62.5°	1411.1	1411.1	1431.5	1478.0	1610.0	1900.0	2519.1	4763.0	10808.8	13565.8	13809.3
65°	1314.4	1308.8	1331.1	1364.6	1465.0	1702.9	2208.6	4277.8	10691.6	13768.4	14136.5
67.5°	1210.3	1199.1	1210.3	1225.1	1299.5	1491.0	1894.4	3839.0	10145.1	13638.3	14080.8
70°	1074.6	1059.7	1065.3	1065.3	1115.5	1243.7	1587.7	3467.2	8897.6	13218.2	13846.5
72.5°	879.4	873.8	883.1	875.6	912.8	998.3	1316.2	3015.5	7250.5	12210.5	12965.3
75°	535.4	542.9	572.6	624.7	658.1	723.2	963.0	2385.2	5489.9	9211.8	10113.5
77.5°	223.1	249.1	275.1	284.4	321.6	314.2	435.0	1082.0	2223.5	3668.0	3971.0
80°	74.4	76.2	169.2	187.8	206.4	169.2	165.5	362.5	635.8	537.3	451.8
82.5°	44.6	48.3	93.0	100.4	87.4	91.1	96.7	122.7	119.0	193.3	219.4
85°	22.3	24.2	40.9	46.5	46.5	55.8	55.8	59.5	66.9	117.1	126.4
87.5°	5.6	5.6	11.2	16.7	18.6	22.3	22.3	26.0	29.7	42.8	50.2
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)