

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: P509410

Luminaire Tested: **VERD-CA2-90-730-U-T5**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-90-730-U-T5  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13122 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G3

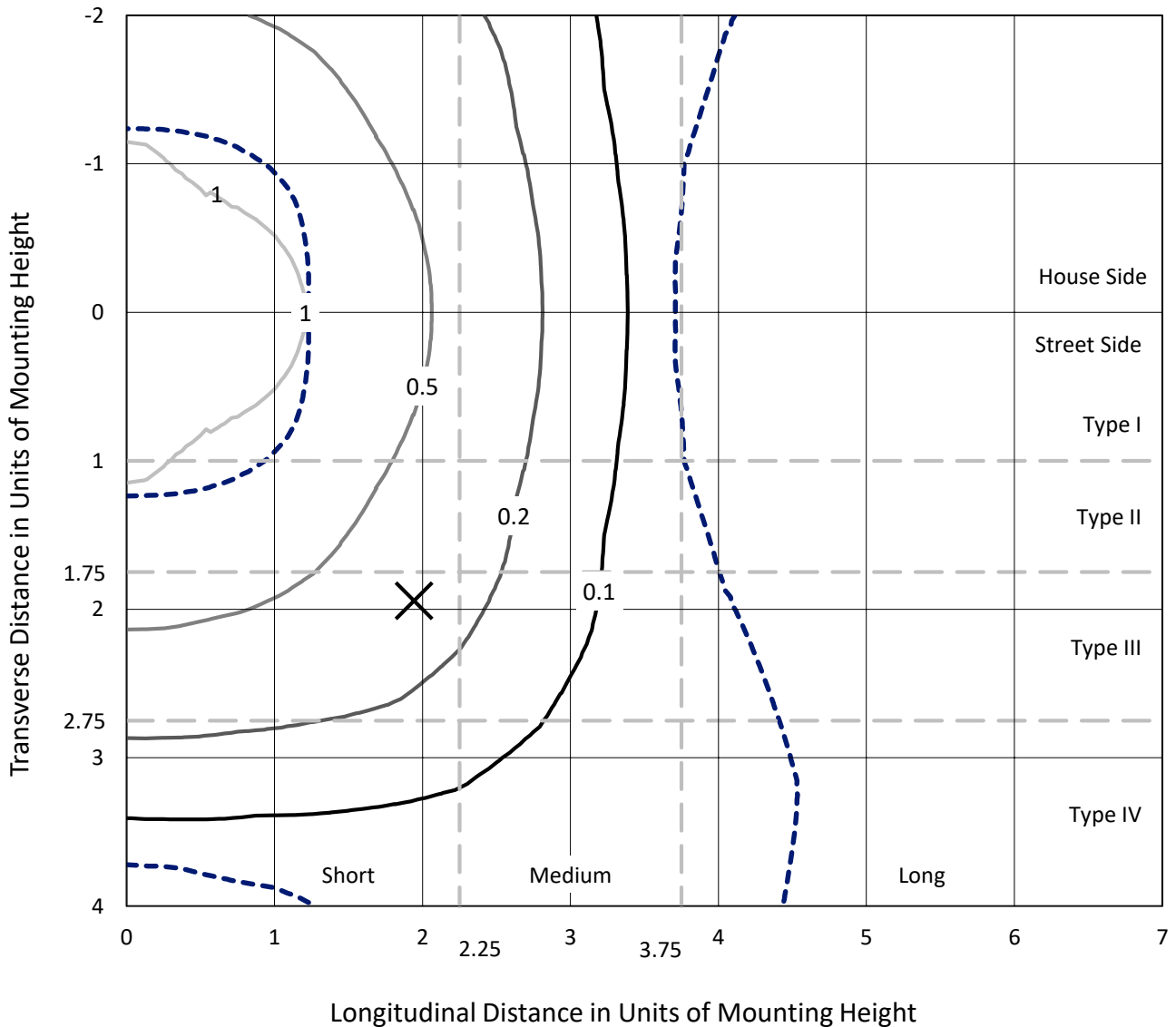
Input Watts (W): 94.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

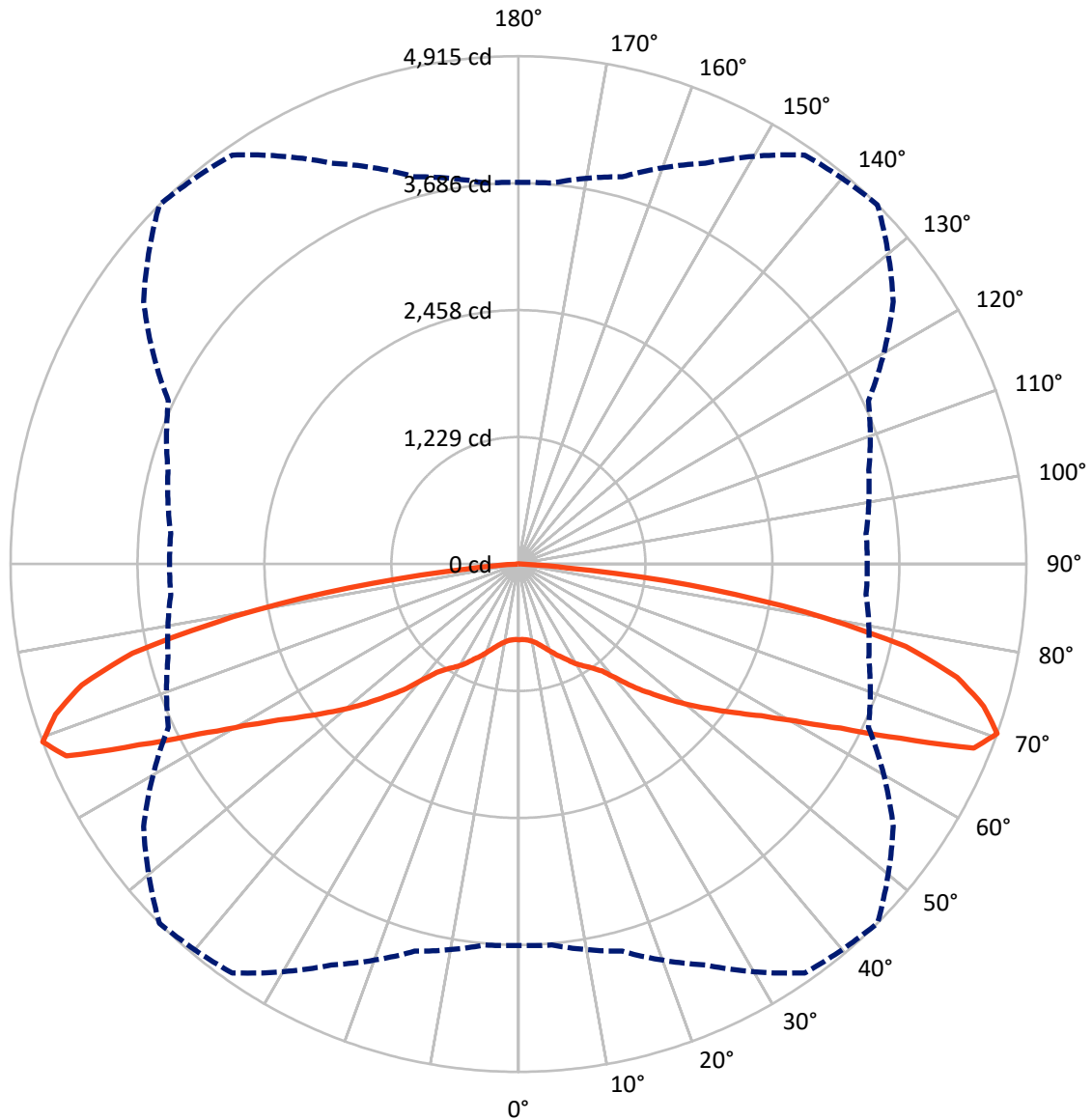
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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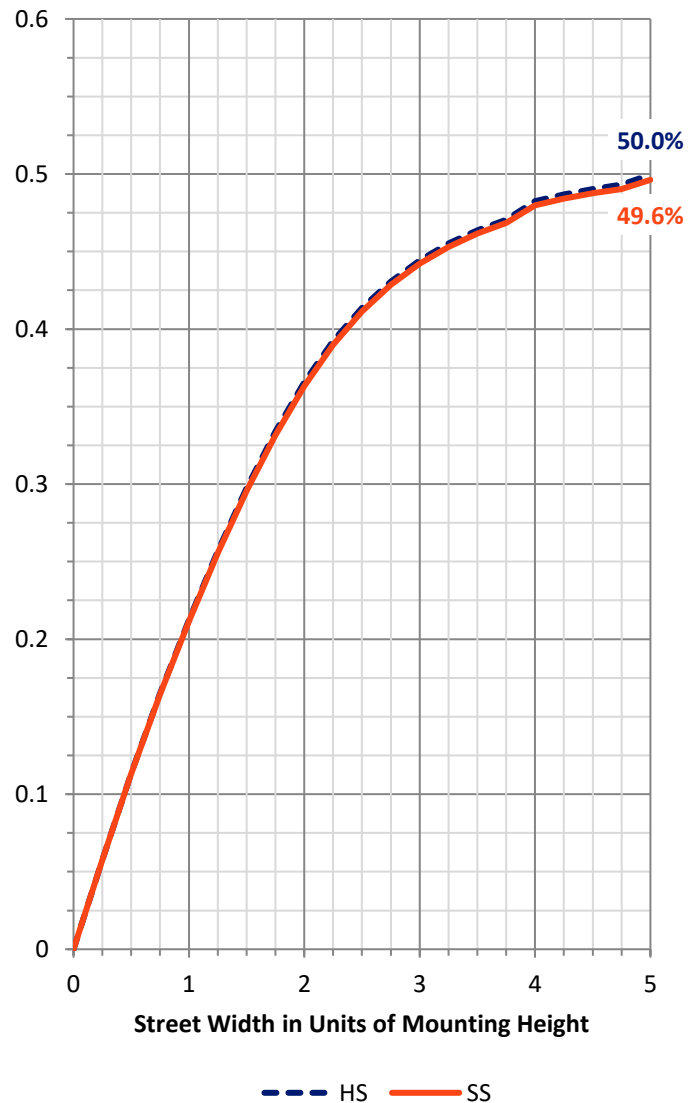
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6561.0	0.0	6561.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6561.0	0.0	6561.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13122.0	0.0	13122.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	0.5
10°-20°	234.4	1.8
20°-30°	460.4	3.5
30°-40°	789.7	6.0
40°-50°	1449.9	11.0
50°-60°	2440.1	18.6
60°-70°	3855.5	29.4
70°-80°	3290.2	25.1
80°-90°	530.4	4.0
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°	13122.0	100.0
0°-180°	13122.0	100.0



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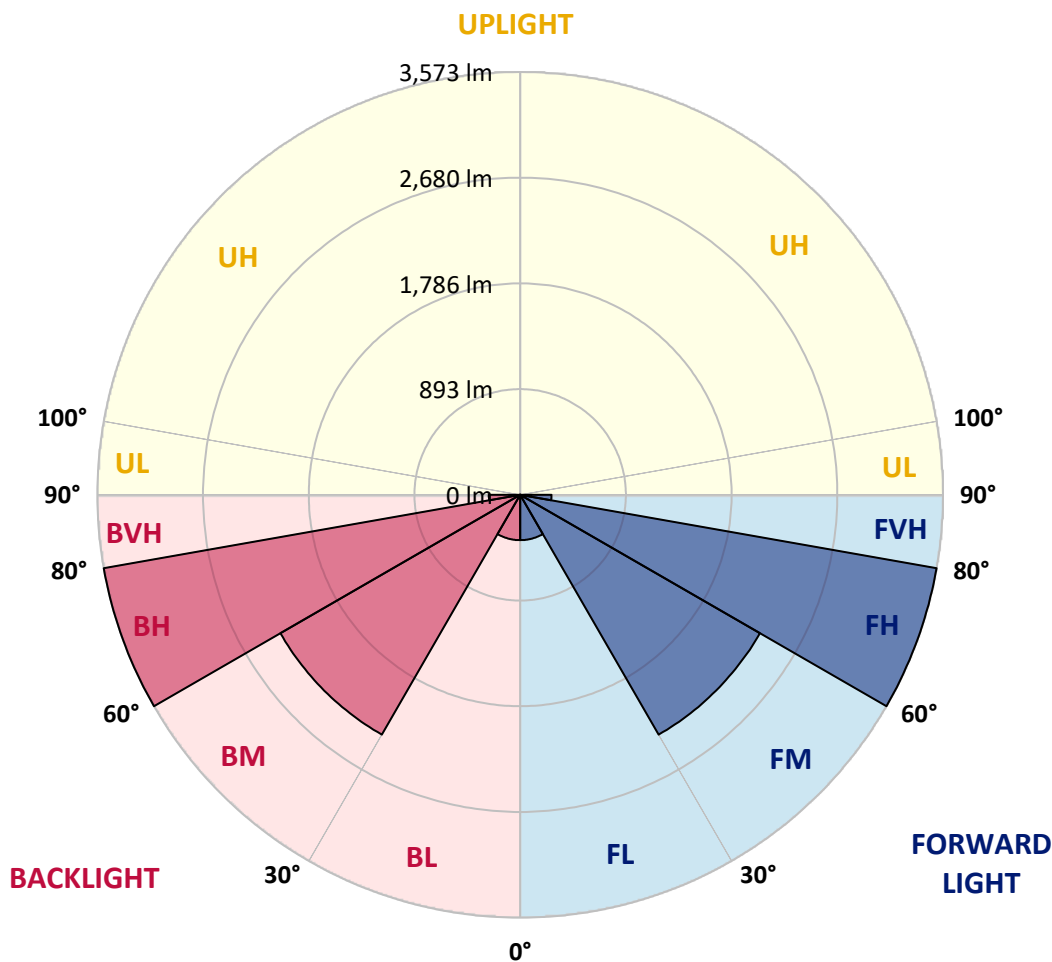
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.1	2.9			
FM (30°-60°)	2339.9	17.8			
FH (60°-80°)	3572.8	27.2			G2/5000
FVH (80°-90°)	265.2	2.0			G3/500
BL (0°-30°)	383.1	2.9	B1/500		
BM (30°-60°)	2339.9	17.8	B2/2500		
BH (60°-80°)	3572.8	27.2	B4/5000		G2/5000
BVH (80°-90°)	265.2	2.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5	733.5
2.5°	734.9	739.0	734.9	734.9	732.1	730.7	730.7	730.7	733.5	736.2	736.2
5°	740.4	743.1	739.0	739.0	736.2	736.2	736.2	736.2	739.0	741.8	740.4
7.5°	750.0	754.2	750.0	750.0	747.3	744.5	744.5	745.9	747.3	748.7	747.3
10°	766.6	772.1	766.6	769.3	763.8	762.4	761.1	761.1	762.4	762.4	762.4
12.5°	787.3	791.4	788.6	791.4	785.9	785.9	781.7	781.7	780.4	780.4	780.4
15°	814.8	820.3	817.6	821.7	819.0	819.0	814.8	810.7	809.3	809.3	809.3
17.5°	847.9	853.4	852.1	859.0	856.2	859.0	850.7	843.8	845.2	845.2	843.8
20°	886.5	892.0	892.0	901.7	901.7	904.5	893.4	886.5	883.8	885.1	883.8
22.5°	929.3	934.8	933.4	948.6	956.8	956.8	941.7	936.2	930.6	932.0	929.3
25°	976.1	983.0	976.1	989.9	1003.7	1005.1	992.7	978.9	978.9	985.8	983.0
27.5°	1016.1	1024.4	1020.3	1025.8	1056.1	1064.4	1045.1	1029.9	1032.7	1038.2	1034.1
30°	1064.4	1071.3	1064.4	1068.5	1097.5	1125.0	1089.2	1085.1	1090.6	1096.1	1096.1
32.5°	1126.4	1134.7	1122.3	1126.4	1136.1	1178.8	1147.1	1152.6	1165.0	1177.4	1177.4
35°	1199.5	1207.8	1195.4	1195.4	1199.5	1235.3	1225.7	1242.2	1267.1	1293.3	1298.8
37.5°	1291.9	1296.0	1282.2	1276.7	1285.0	1313.9	1327.7	1365.0	1404.9	1453.2	1461.5
40°	1417.3	1422.9	1403.6	1398.0	1403.6	1444.9	1483.5	1549.7	1604.9	1655.9	1661.4
42.5°	1603.5	1620.0	1600.7	1582.8	1582.8	1620.0	1673.8	1753.8	1824.1	1857.2	1865.4
45°	1808.9	1824.1	1782.7	1759.3	1749.6	1780.0	1839.2	1933.0	1999.2	2052.9	2048.8
47.5°	2052.9	2047.4	2008.8	1967.5	1937.1	1956.4	2011.6	2092.9	2164.6	2212.9	2214.3
50°	2325.9	2324.6	2273.5	2192.2	2134.3	2142.6	2179.8	2266.6	2338.3	2383.8	2394.9
52.5°	2616.8	2607.2	2539.6	2445.9	2359.0	2331.4	2346.6	2423.8	2501.0	2553.4	2553.4
55°	2907.8	2895.3	2838.8	2714.7	2611.3	2536.9	2525.8	2603.1	2691.3	2754.7	2758.9
57.5°	3208.3	3211.1	3150.4	3044.3	2885.7	2771.3	2740.9	2829.2	2922.9	2980.8	2996.0
60°	3514.4	3511.6	3464.8	3390.3	3231.8	3082.9	3033.2	3084.2	3202.8	3248.3	3266.2
62.5°	3904.6	3914.2	3845.3	3792.9	3642.6	3499.2	3405.5	3455.1	3572.3	3635.7	3637.1
65°	4115.5	4134.8	4165.2	4260.3	4210.7	4064.5	3945.9	3888.0	3852.2	3831.5	3819.1
67.5°	3997.0	3998.3	4129.3	4372.0	4658.8	4752.5	4300.3	3894.9	3746.0	3704.7	3693.6
70°	3692.3	3700.5	3879.8	4281.0	4831.1	4915.2	4428.5	3737.8	3510.3	3377.9	3376.5
72.5°	3085.6	3186.3	3422.0	4016.3	4719.4	4709.8	4223.1	3484.1	3125.6	2994.6	2979.5
75°	2441.7	2470.7	2797.5	3466.1	4305.8	4385.8	3923.9	3029.1	2612.7	2440.4	2430.7
77.5°	1560.7	1586.9	1946.8	2689.9	3638.5	3832.9	3347.6	2419.7	1953.7	1712.4	1705.5
80°	762.4	836.9	1109.9	1751.0	2626.5	2809.9	2354.9	1546.9	1156.8	929.3	910.0
82.5°	313.0	329.5	540.5	969.3	1541.4	1665.5	1203.6	719.7	427.4	282.6	262.0
85°	93.8	95.1	165.4	346.1	649.4	470.1	242.7	103.4	45.5	33.1	31.7
87.5°	16.5	17.9	30.3	41.4	40.0	17.9	16.5	15.2	15.2	15.2	16.5
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)