

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: P509363

Luminaire Tested: **VERD-CA2-80-740-U-T1**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509363  
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-CA2-80-740-U-T1  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12364 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

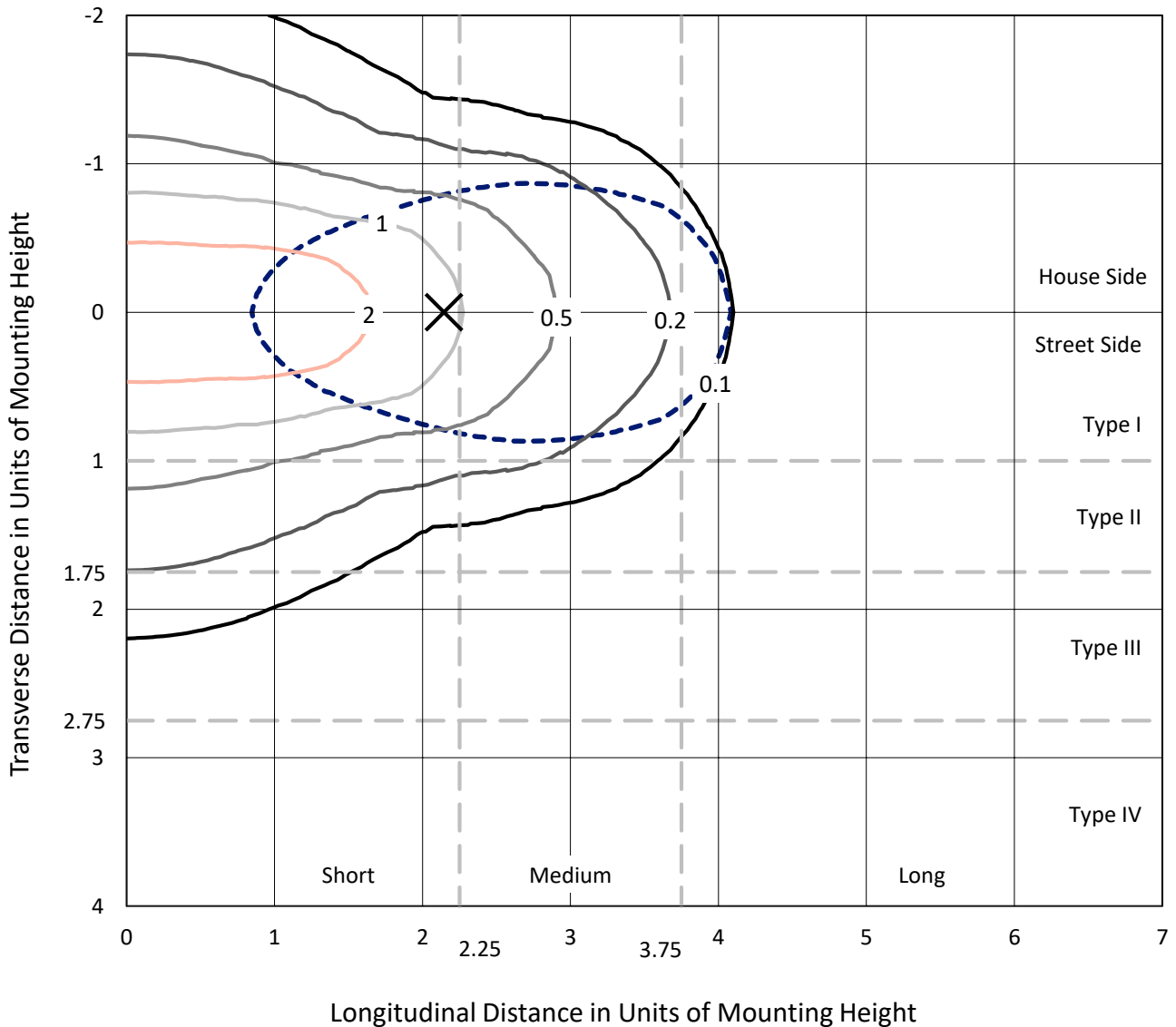
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

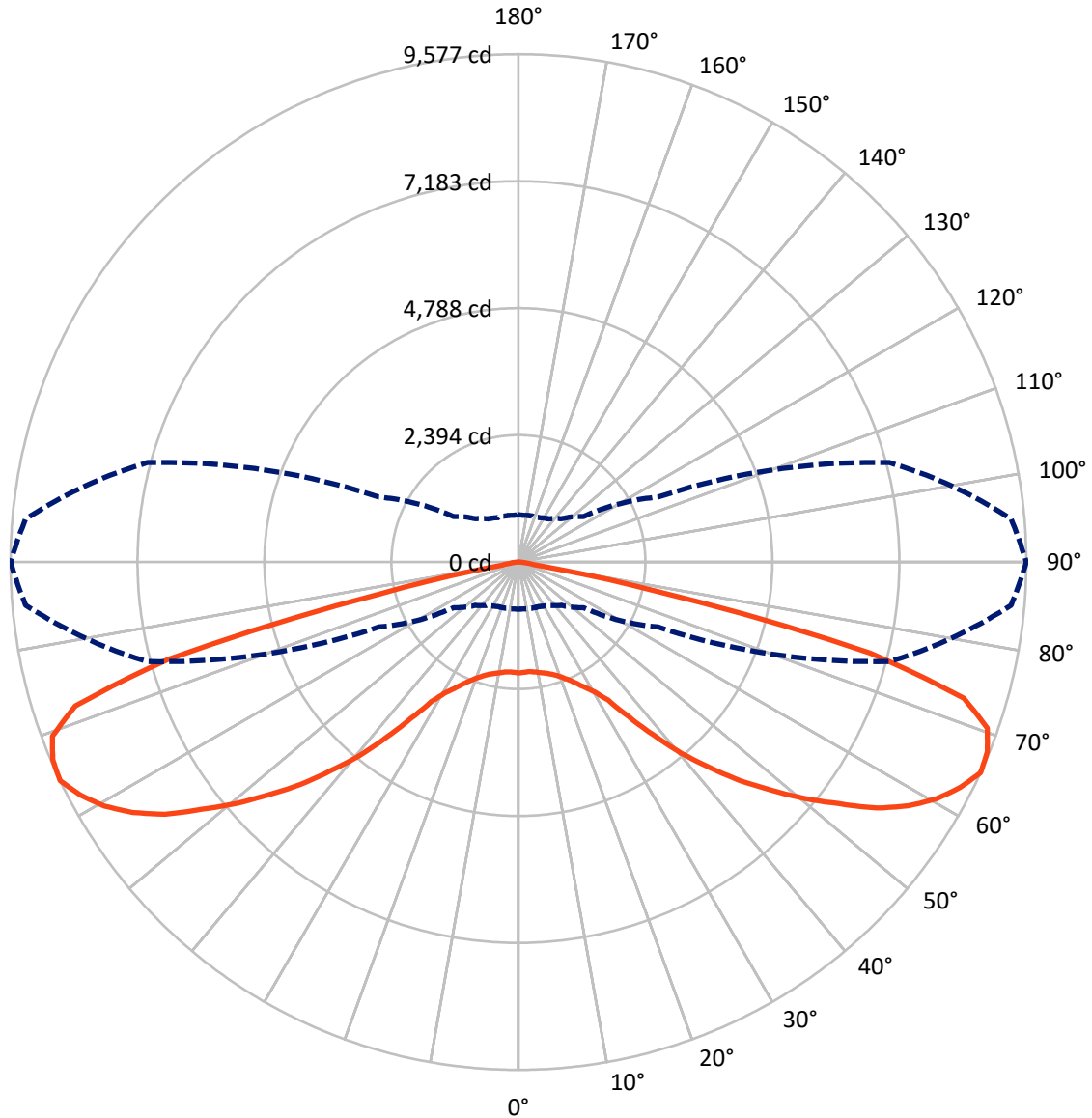
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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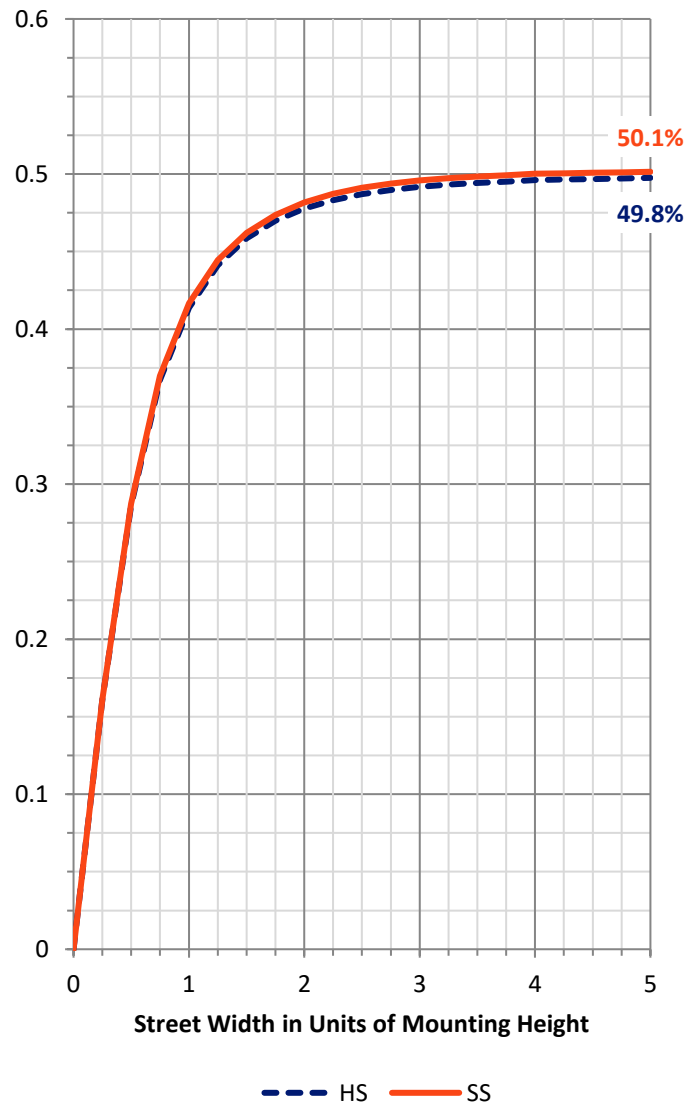
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6182.0	0.0	6182.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6182.0	0.0	6182.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12364.0	0.0	12364.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.4	1.6
10°-20°	591.0	4.8
20°-30°	976.0	7.9
30°-40°	1440.5	11.7
40°-50°	2096.0	17.0
50°-60°	2683.0	21.7
60°-70°	2805.7	22.7
70°-80°	1513.7	12.2
80°-90°	59.6	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°	12364.0	100.0
0°-180°	12364.0	100.0



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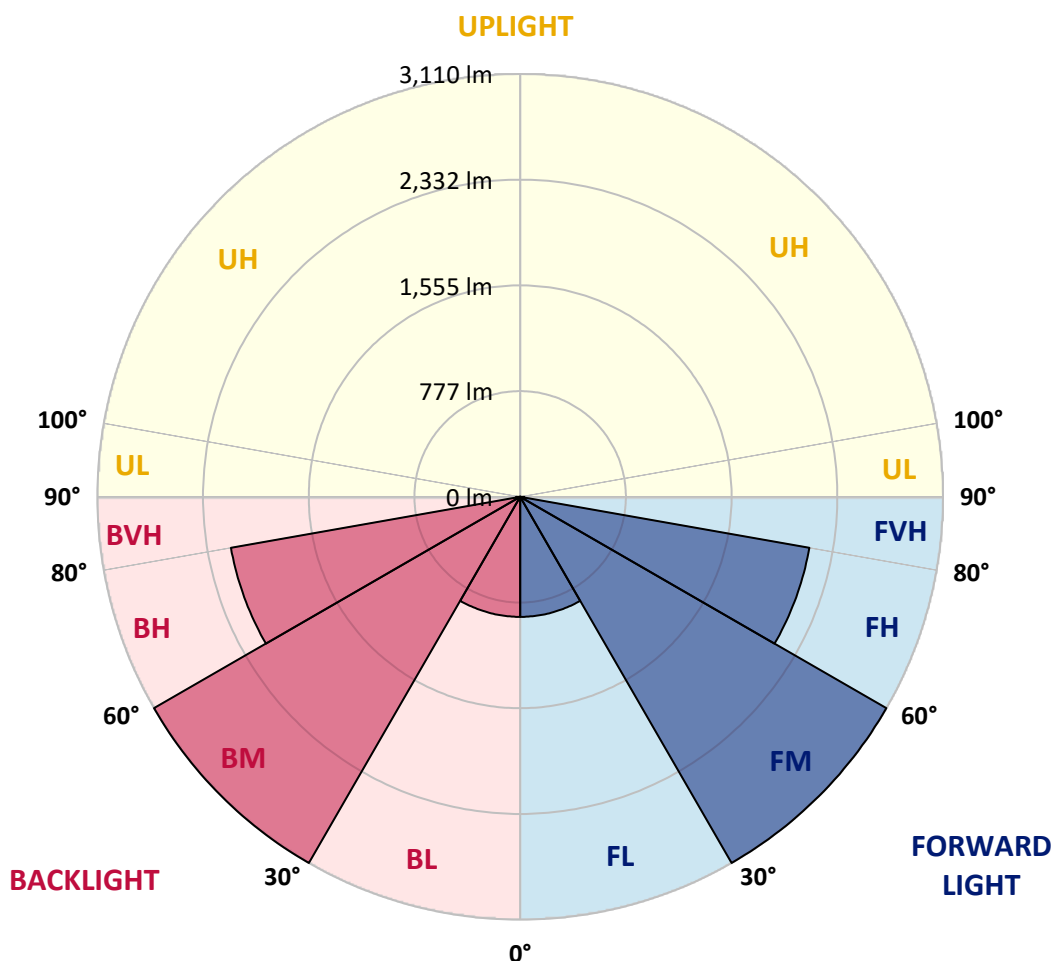
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.7	7.1			
FM	(30°-60°)	3109.8	25.2			
FH	(60°-80°)	2159.7	17.5			G2/5000
FVH	(80°-90°)	29.8	0.2			G1/100
BL	(0°-30°)	882.7	7.1	B2/1000		
BM	(30°-60°)	3109.8	25.2	B3/5000		
BH	(60°-80°)	2159.7	17.5	B3/2500		G3/2500
BVH	(80°-90°)	29.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2091.9	2091.9	2091.9	2091.9	2091.9	2091.9	2091.9	2091.9	2091.9	2091.9	2091.9
2.5°	2080.6	2088.1	2091.9	2090.7	2083.1	2083.1	2083.1	2083.1	2080.6	2079.3	2080.6
5°	2065.5	2071.8	2079.3	2075.5	2071.8	2075.5	2075.5	2075.5	2076.8	2076.8	2076.8
7.5°	2052.9	2061.7	2065.5	2070.5	2061.7	2071.8	2086.9	2089.4	2090.7	2090.7	2090.7
10°	2041.5	2049.1	2059.2	2057.9	2061.7	2076.8	2093.2	2112.1	2113.3	2117.1	2117.1
12.5°	2013.8	2023.9	2035.2	2042.8	2047.8	2083.1	2099.5	2123.4	2142.3	2144.8	2146.1
15°	1979.8	1986.1	1998.7	2016.3	2042.8	2080.6	2117.1	2147.3	2177.6	2185.1	2185.1
17.5°	1928.2	1935.7	1953.4	1978.6	2026.4	2088.1	2146.1	2186.4	2224.2	2235.5	2238.0
20°	1857.7	1871.5	1895.4	1939.5	2003.8	2093.2	2177.6	2238.0	2287.1	2312.3	2313.6
22.5°	1773.3	1783.4	1826.2	1889.1	1979.8	2093.2	2210.3	2298.5	2366.5	2405.5	2409.3
25°	1681.3	1690.2	1745.6	1833.7	1949.6	2094.4	2243.0	2365.2	2471.0	2522.6	2527.7
27.5°	1598.2	1607.0	1670.0	1777.1	1923.1	2098.2	2278.3	2447.1	2594.4	2663.7	2677.5
30°	1521.4	1525.2	1597.0	1715.3	1894.2	2100.7	2321.1	2536.5	2724.1	2836.2	2843.8
32.5°	1449.6	1459.7	1526.4	1653.6	1860.2	2104.5	2377.8	2663.7	2932.0	3100.7	3107.0
35°	1385.4	1394.2	1460.9	1590.7	1814.8	2114.6	2439.5	2826.2	3233.0	3527.7	3576.8
37.5°	1333.7	1342.6	1401.7	1523.9	1768.2	2112.1	2520.1	3023.9	3600.7	4066.7	4141.0
40°	1292.2	1302.2	1350.1	1460.9	1706.5	2093.2	2604.5	3238.0	4001.2	4634.7	4745.5
42.5°	1256.9	1265.7	1307.3	1405.5	1639.8	2062.9	2680.1	3431.9	4387.9	5212.8	5300.9
45°	1216.6	1226.7	1267.0	1358.9	1578.1	2016.3	2730.4	3622.1	4779.5	5761.9	5887.8
47.5°	1190.2	1196.5	1227.9	1313.6	1508.8	1943.3	2739.3	3756.9	5198.9	6342.5	6429.4
50°	1166.2	1165.0	1192.7	1268.2	1444.6	1850.1	2692.7	3861.4	5598.2	6884.0	7013.8
52.5°	1132.2	1133.5	1156.2	1224.2	1381.6	1741.8	2581.8	3887.9	6008.7	7426.9	7567.9
55°	1091.9	1095.7	1117.1	1173.8	1317.4	1634.7	2392.9	3840.0	6450.8	7963.4	8190.1
57.5°	1052.9	1050.4	1071.8	1122.2	1248.1	1526.4	2177.6	3717.8	6875.2	8527.6	8669.9
60°	1007.5	1010.1	1025.2	1066.7	1175.0	1411.8	1937.0	3506.2	7161.1	8963.4	9062.8
62.5°	955.9	955.9	969.8	1001.2	1090.7	1287.1	1706.5	3226.7	7322.3	9190.1	9355.0
65°	890.4	886.6	901.8	924.4	992.4	1153.6	1496.2	2897.9	7243.0	9327.3	9576.7
67.5°	819.9	812.3	819.9	830.0	880.3	1010.1	1283.4	2600.7	6872.7	9239.2	9538.9
70°	727.9	717.9	721.7	721.7	755.7	842.6	1075.6	2348.8	6027.6	8954.5	9380.2
72.5°	595.7	591.9	598.2	593.2	618.4	676.3	891.7	2042.8	4911.8	8271.9	8783.3
75°	362.7	367.8	387.9	423.2	445.8	489.9	652.4	1615.8	3719.1	6240.5	6851.3
77.5°	151.1	168.8	186.4	192.7	217.9	212.8	294.7	733.0	1506.3	2484.9	2690.1
80°	50.4	51.6	114.6	127.2	139.8	114.6	112.1	245.6	430.7	364.0	306.0
82.5°	30.2	32.7	63.0	68.0	59.2	61.7	65.5	83.1	80.6	131.0	148.6
85°	15.1	16.4	27.7	31.5	31.5	37.8	37.8	40.3	45.3	79.3	85.6
87.5°	3.8	3.8	7.6	11.3	12.6	15.1	15.1	17.6	20.2	29.0	34.0
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)