

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: P509347

Luminaire Tested: **VERD-CA2-80-727-U-T1**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509347  
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-CA2-80-727-U-T1  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1100mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10469 lumens  
Efficiency: N/A  
Efficacy: 127.1 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

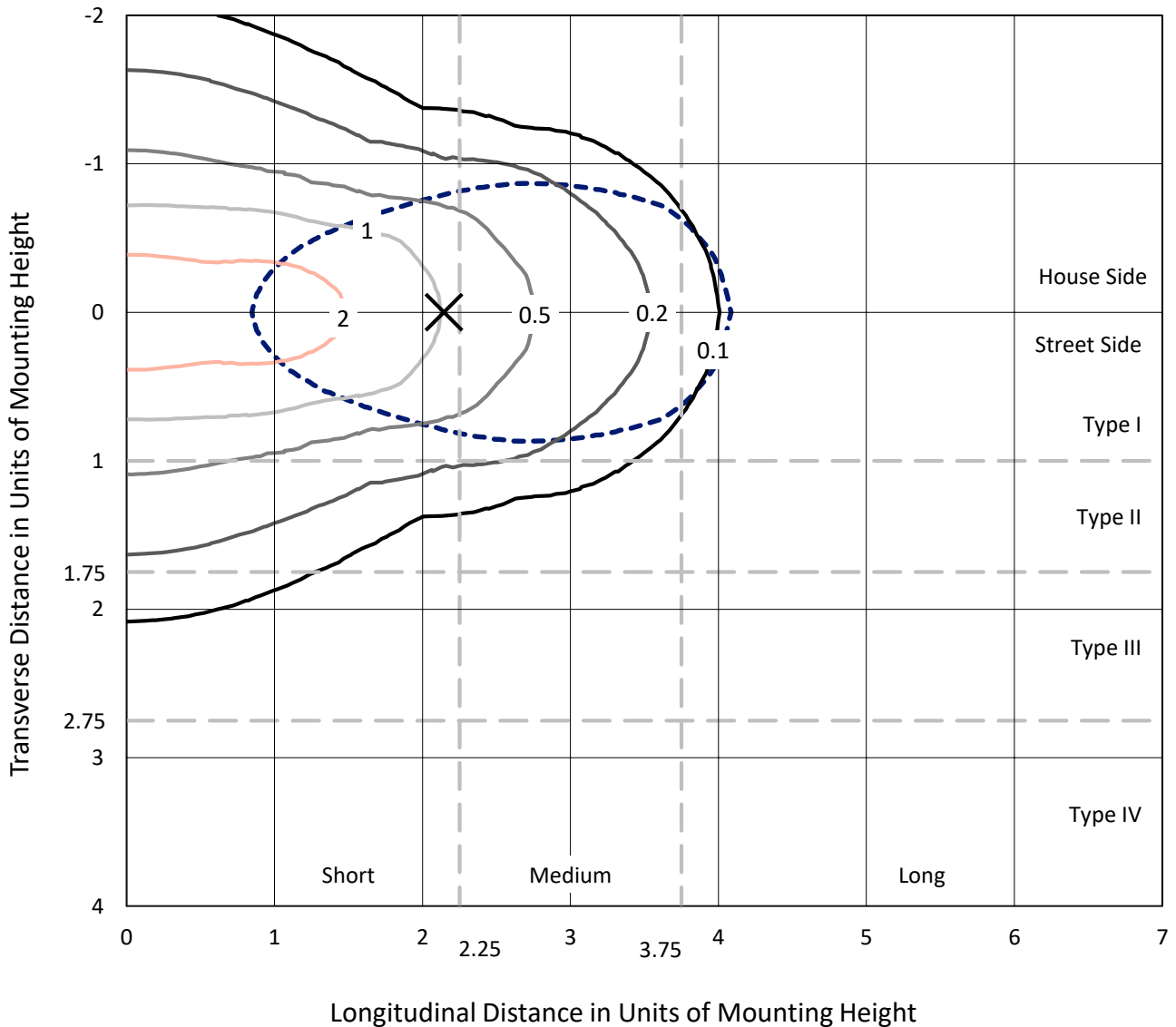
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

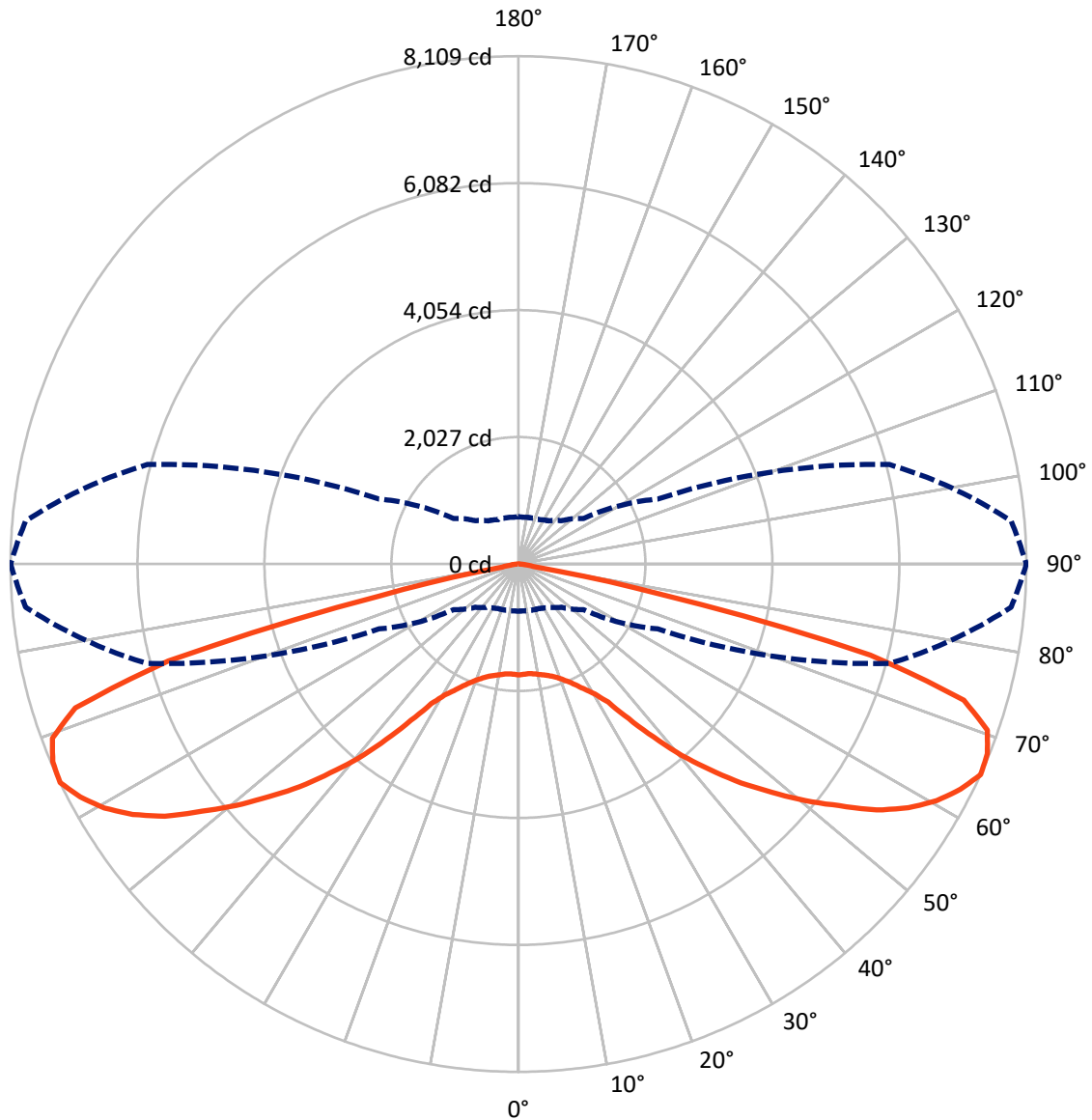
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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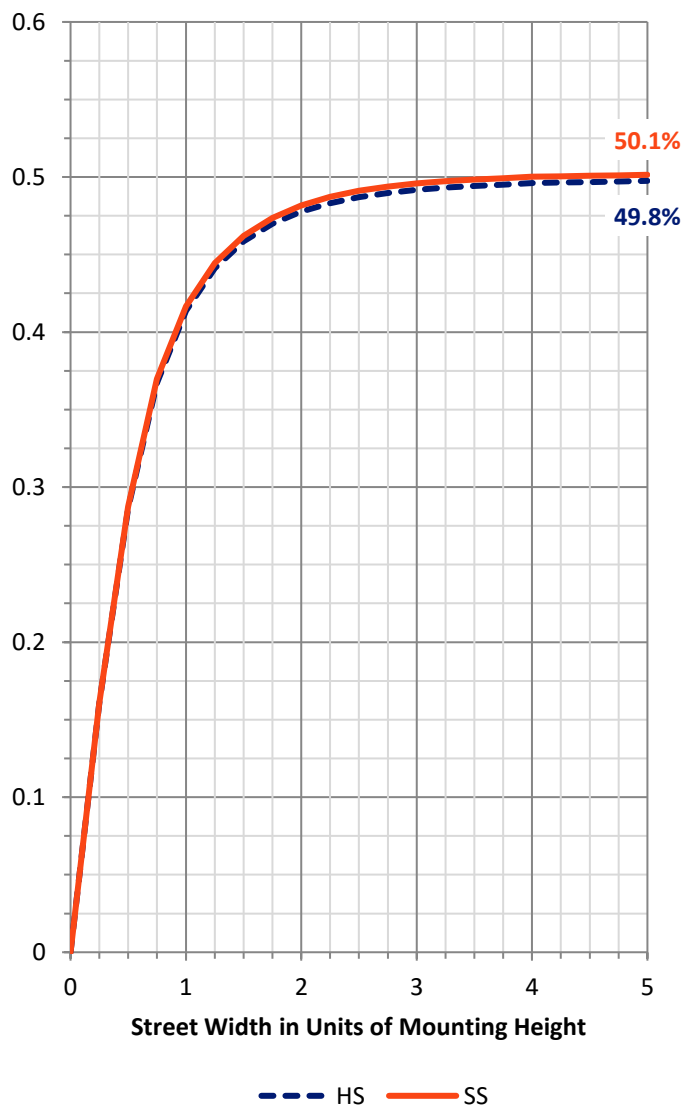
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5234.5	0.0	5234.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5234.5	0.0	5234.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10469.0	0.0	10469.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.0	1.6
10°-20°	500.4	4.8
20°-30°	826.4	7.9
30°-40°	1219.8	11.7
40°-50°	1774.7	17.0
50°-60°	2271.8	21.7
60°-70°	2375.7	22.7
70°-80°	1281.7	12.2
80°-90°	50.5	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°	10469.0	100.0
0°-180°	10469.0	100.0

**Coefficient of Utilization**



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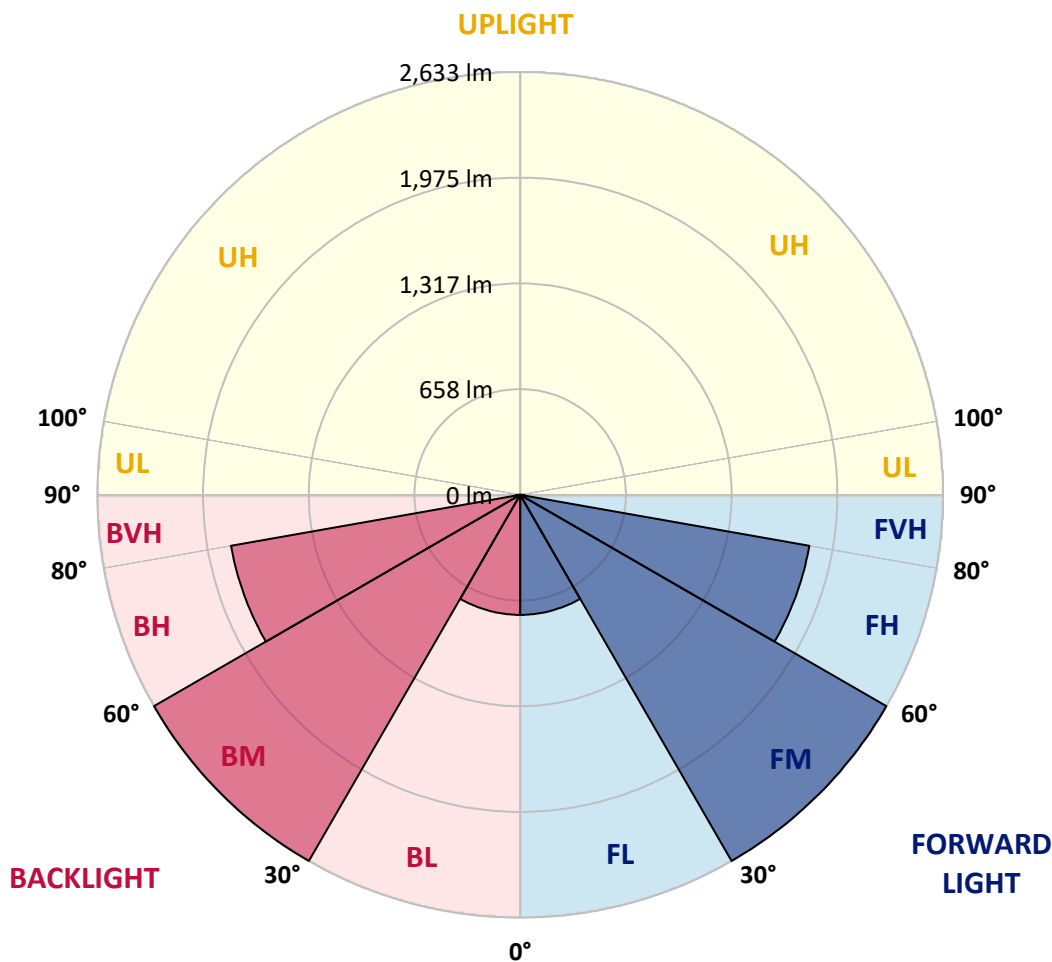
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	747.4	7.1			
FM	(30°-60°)	2633.2	25.2			
FH	(60°-80°)	1828.7	17.5			G2/5000
FVH	(80°-90°)	25.2	0.2			G1/100
BL	(0°-30°)	747.4	7.1	B2/1000		
BM	(30°-60°)	2633.2	25.2	B3/5000		
BH	(60°-80°)	1828.7	17.5	B3/2500		G3/2500
BVH	(80°-90°)	25.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1771.3	1771.3	1771.3	1771.3	1771.3	1771.3	1771.3	1771.3	1771.3	1771.3	1771.3
2.5°	1761.7	1768.1	1771.3	1770.2	1763.8	1763.8	1763.8	1763.8	1761.7	1760.6	1761.7
5°	1748.9	1754.2	1760.6	1757.4	1754.2	1757.4	1757.4	1757.4	1758.5	1758.5	1758.5
7.5°	1738.2	1745.7	1748.9	1753.2	1745.7	1754.2	1767.0	1769.2	1770.2	1770.2	1770.2
10°	1728.6	1735.0	1743.6	1742.5	1745.7	1758.5	1772.4	1788.4	1789.4	1792.6	1792.6
12.5°	1705.2	1713.7	1723.3	1729.7	1734.0	1763.8	1777.7	1797.9	1813.9	1816.1	1817.1
15°	1676.4	1681.7	1692.4	1707.3	1729.7	1761.7	1792.6	1818.2	1843.8	1850.2	1850.2
17.5°	1632.7	1639.1	1654.0	1675.3	1715.8	1768.1	1817.1	1851.3	1883.3	1892.9	1895.0
20°	1572.9	1584.7	1604.9	1642.3	1696.6	1772.4	1843.8	1895.0	1936.6	1957.9	1959.0
22.5°	1501.5	1510.0	1546.3	1599.6	1676.4	1772.4	1871.5	1946.2	2003.8	2036.8	2040.0
25°	1423.6	1431.1	1478.0	1552.7	1650.8	1773.4	1899.3	2002.7	2092.3	2136.0	2140.3
27.5°	1353.3	1360.7	1414.0	1504.7	1628.4	1776.6	1929.1	2072.0	2196.8	2255.4	2267.2
30°	1288.2	1291.4	1352.2	1452.4	1603.9	1778.8	1965.4	2147.7	2306.6	2401.5	2407.9
32.5°	1227.4	1236.0	1292.5	1400.2	1575.1	1782.0	2013.4	2255.4	2482.6	2625.5	2630.8
35°	1173.0	1180.5	1237.0	1346.9	1536.7	1790.5	2065.6	2393.0	2737.4	2987.0	3028.6
37.5°	1129.3	1136.8	1186.9	1290.3	1497.2	1788.4	2133.9	2560.4	3048.8	3443.4	3506.3
40°	1094.1	1102.7	1143.2	1237.0	1445.0	1772.4	2205.3	2741.7	3388.0	3924.3	4018.2
42.5°	1064.3	1071.7	1106.9	1190.1	1388.5	1746.8	2269.3	2905.9	3715.3	4413.8	4488.5
45°	1030.1	1038.7	1072.8	1150.6	1336.2	1707.3	2312.0	3067.0	4047.0	4878.8	4985.4
47.5°	1007.7	1013.1	1039.7	1112.3	1277.5	1645.5	2319.4	3181.1	4402.1	5370.4	5444.0
50°	987.5	986.4	1009.9	1073.9	1223.2	1566.5	2280.0	3269.6	4740.1	5828.9	5938.8
52.5°	958.7	959.8	979.0	1036.5	1169.8	1474.8	2186.1	3292.0	5087.8	6288.6	6408.0
55°	924.6	927.8	945.9	993.9	1115.5	1384.2	2026.2	3251.5	5462.1	6742.8	6934.8
57.5°	891.5	889.4	907.5	950.2	1056.8	1292.5	1843.8	3148.0	5821.5	7220.6	7341.1
60°	853.1	855.3	868.0	903.2	995.0	1195.4	1640.1	2968.9	6063.5	7589.6	7673.8
62.5°	809.4	809.4	821.1	847.8	923.5	1089.9	1445.0	2732.1	6200.0	7781.5	7921.2
65°	753.9	750.7	763.5	782.7	840.3	976.8	1266.9	2453.8	6132.9	7897.8	8108.9
67.5°	694.2	687.8	694.2	702.8	745.4	855.3	1086.7	2202.1	5819.3	7823.1	8076.9
70°	616.4	607.8	611.0	611.0	639.8	713.4	910.7	1988.8	5103.8	7582.1	7942.5
72.5°	504.4	501.2	506.5	502.3	523.6	572.7	755.0	1729.7	4159.0	7004.1	7437.1
75°	307.1	311.4	328.5	358.3	377.5	414.8	552.4	1368.2	3149.1	5284.0	5801.2
77.5°	128.0	142.9	157.8	163.2	184.5	180.2	249.5	620.6	1275.4	2104.0	2277.8
80°	42.7	43.7	97.0	107.7	118.4	97.0	94.9	207.9	364.7	308.2	259.1
82.5°	25.6	27.7	53.3	57.6	50.1	52.3	55.5	70.4	68.2	110.9	125.8
85°	12.8	13.9	23.5	26.7	26.7	32.0	32.0	34.1	38.4	67.2	72.5
87.5°	3.2	3.2	6.4	9.6	10.7	12.8	12.8	14.9	17.1	24.5	28.8
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)