

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: P510098

Luminaire Tested: **VERD-M-CA4-200-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-200-750-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30165 lumens  
Efficiency: N/A  
Efficacy: 149.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

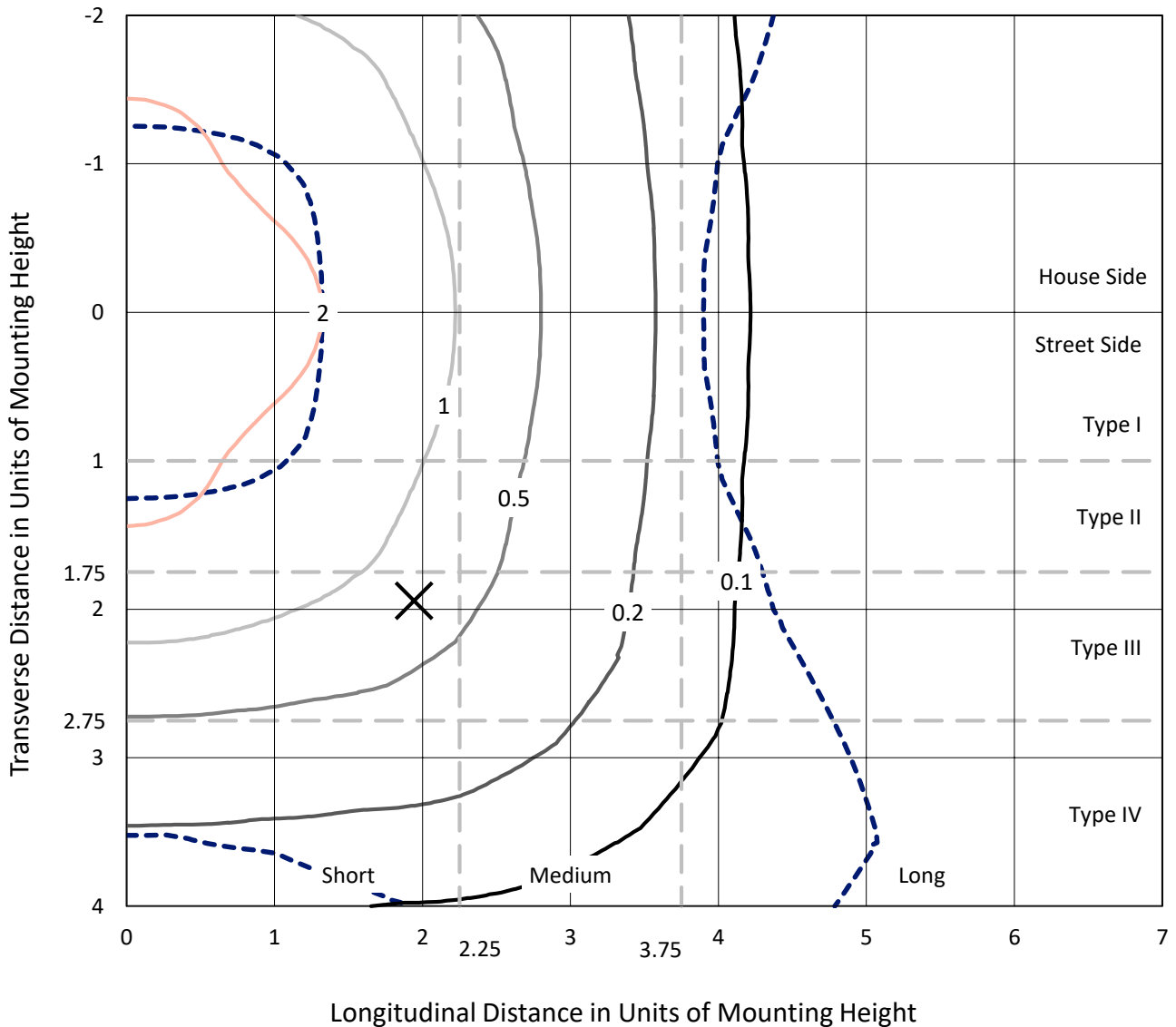
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

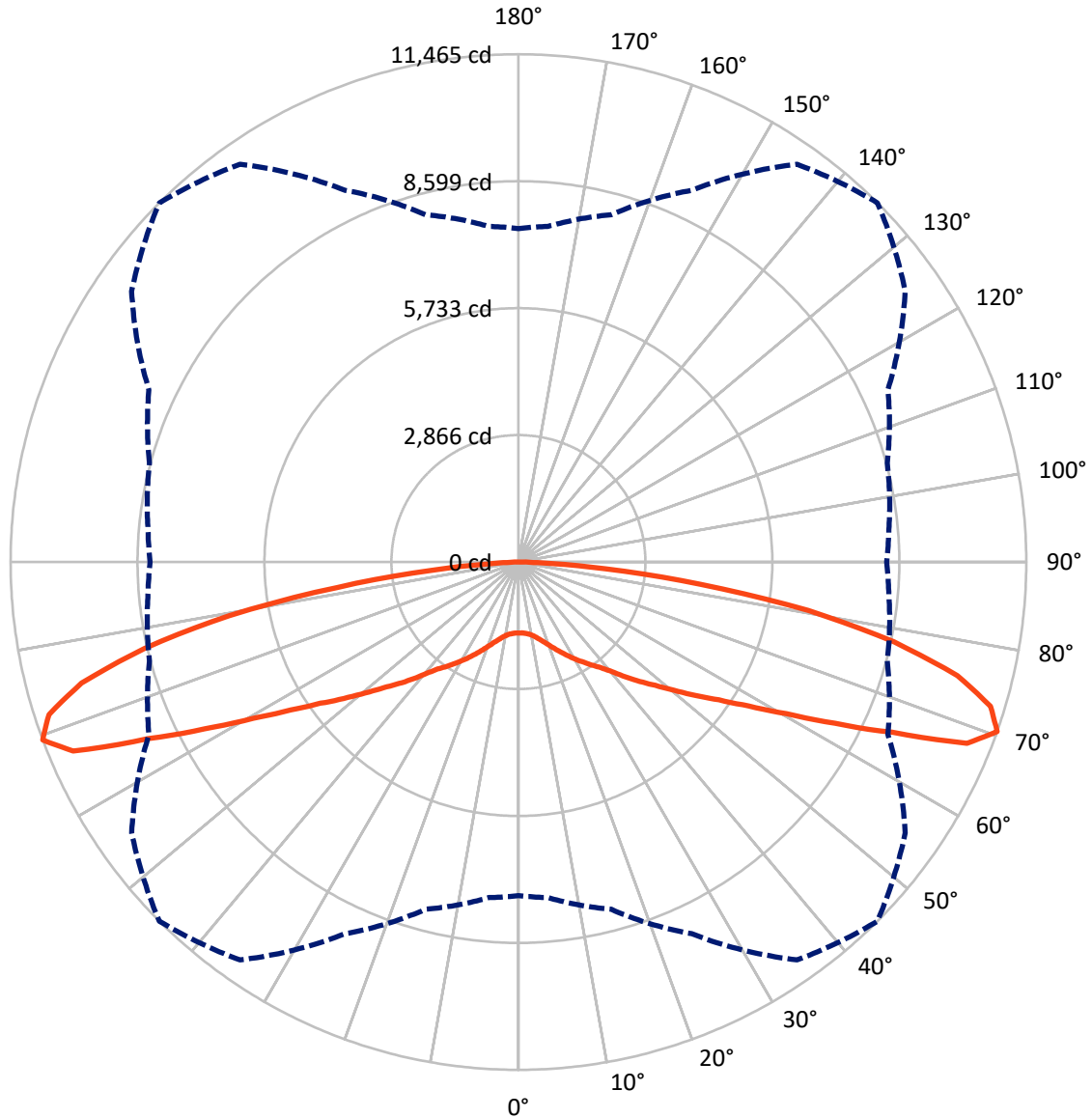
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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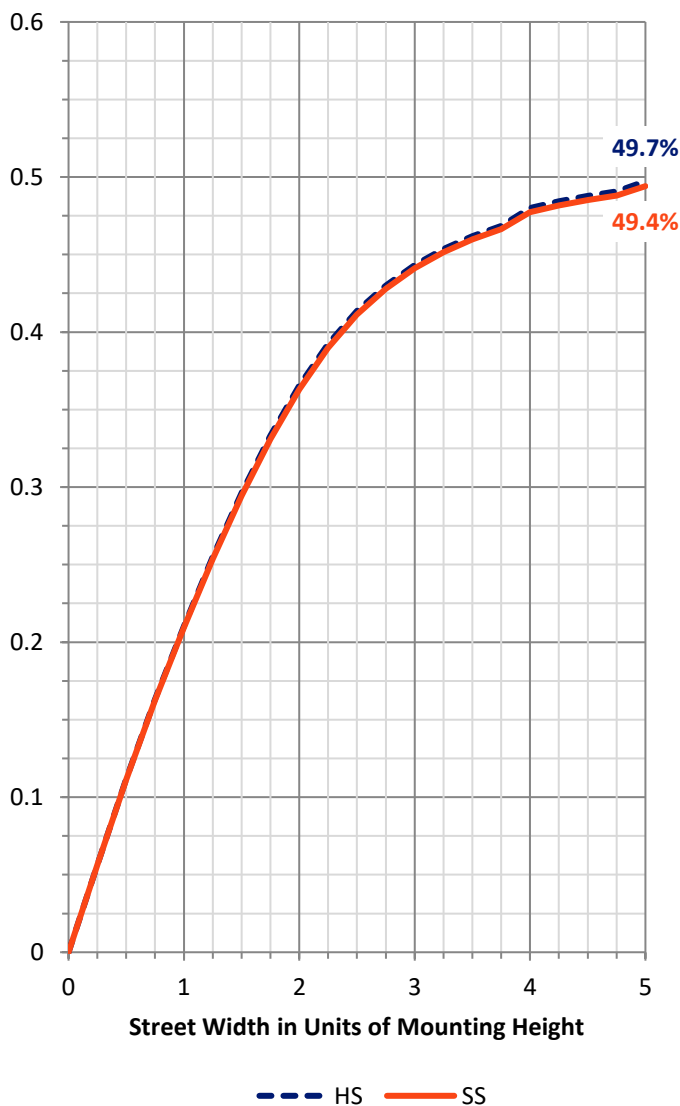
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15082.5	0.0	15082.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15082.5	0.0	15082.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30165.0	0.0	30165.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	0.5
10°-20°	519.4	1.7
20°-30°	1038.7	3.4
30°-40°	1807.2	6.0
40°-50°	3144.2	10.4
50°-60°	5474.5	18.1
60°-70°	8866.3	29.4
70°-80°	7606.3	25.2
80°-90°	1551.5	5.1
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°	30165.0	100.0
0°-180°	30165.0	100.0

**Coefficient of Utilization**



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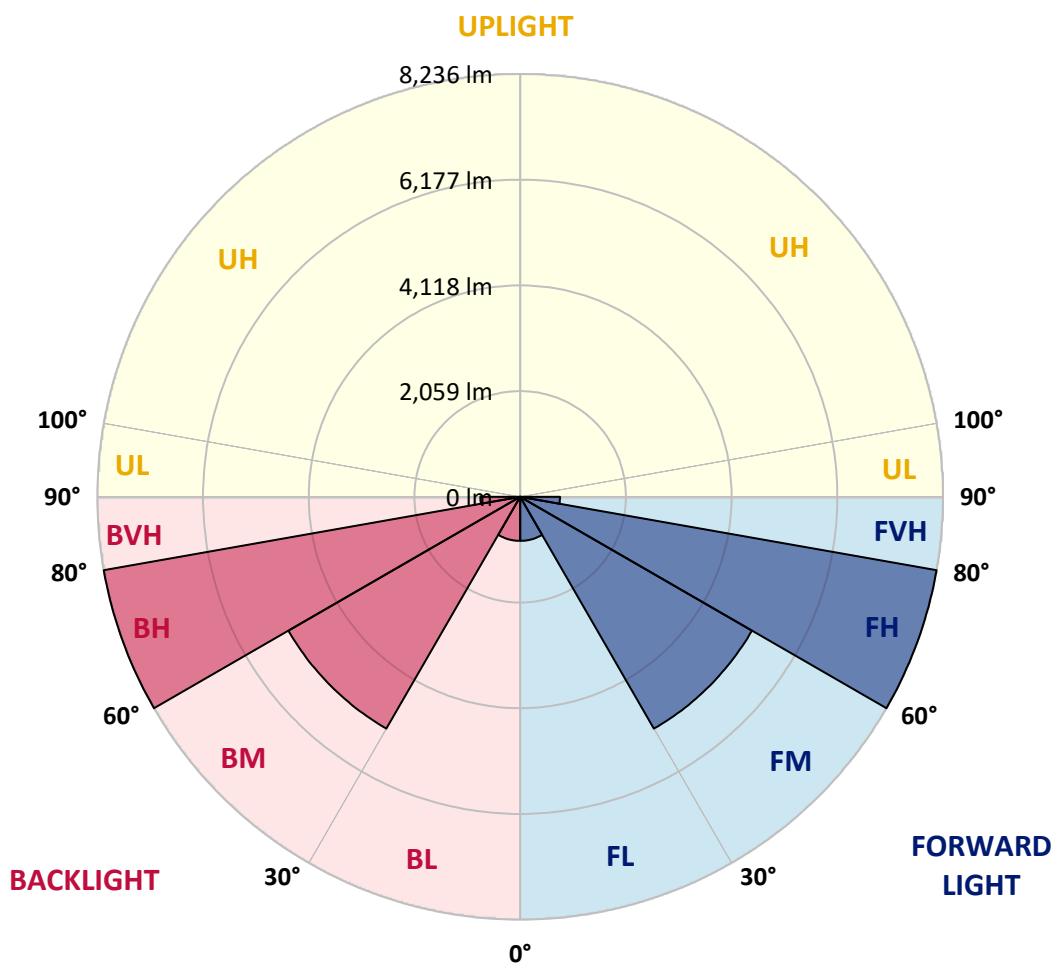
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.5	2.8			
FM (30°-60°)	5213.0	17.3			
FH (60°-80°)	8236.3	27.3			G4/12000
FVH (80°-90°)	775.8	2.6			G5
BL (0°-30°)	857.5	2.8	B2/1000		
BM (30°-60°)	5213.0	17.3	B4/8500		
BH (60°-80°)	8236.3	27.3	B5		G4/12000
BVH (80°-90°)	775.8	2.6			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4
2.5°	1599.1	1608.4	1607.1	1604.4	1600.4	1600.4	1603.1	1612.4	1613.7	1613.7	1613.7
5°	1617.7	1626.9	1625.6	1623.0	1619.0	1617.7	1620.3	1629.6	1630.9	1630.9	1632.2
7.5°	1638.8	1649.4	1649.4	1648.1	1638.8	1638.8	1641.5	1653.4	1653.4	1656.0	1658.7
10°	1674.6	1686.5	1690.5	1685.2	1679.9	1677.2	1679.9	1691.8	1690.5	1687.8	1689.1
12.5°	1723.6	1735.5	1744.7	1743.4	1738.1	1735.5	1738.1	1744.7	1736.8	1726.2	1726.2
15°	1784.5	1800.3	1810.9	1810.9	1817.5	1813.6	1809.6	1810.9	1799.0	1789.8	1789.8
17.5°	1862.6	1875.8	1885.1	1893.0	1903.6	1903.6	1894.3	1891.7	1875.8	1867.9	1869.2
20°	1957.9	1968.5	1981.7	1988.3	2009.5	2010.8	1994.9	1988.3	1972.4	1961.8	1964.5
22.5°	2061.1	2079.7	2085.0	2104.8	2130.0	2131.3	2110.1	2095.5	2079.7	2071.7	2073.0
25°	2185.6	2204.1	2200.1	2217.3	2255.7	2259.7	2235.9	2214.7	2201.4	2193.5	2196.2
27.5°	2321.9	2340.4	2339.1	2339.1	2384.1	2401.3	2368.2	2345.7	2348.4	2333.8	2339.1
30°	2467.5	2483.4	2492.7	2476.8	2520.5	2548.3	2495.3	2498.0	2496.6	2487.4	2486.1
32.5°	2638.3	2652.9	2651.5	2640.9	2654.2	2693.9	2651.5	2664.8	2668.7	2670.1	2680.7
35°	2832.9	2850.1	2831.6	2817.0	2818.3	2856.7	2824.9	2846.1	2867.3	2875.2	2875.2
37.5°	3040.7	3050.0	3030.1	3007.6	3002.3	3023.5	3018.2	3052.6	3088.4	3108.2	3118.8
40°	3309.4	3317.4	3279.0	3235.3	3227.4	3251.2	3257.8	3333.3	3387.6	3424.6	3431.2
42.5°	3682.8	3681.4	3627.2	3546.4	3508.0	3545.1	3592.7	3680.1	3771.4	3779.4	3807.2
45°	4163.3	4144.8	4074.6	3954.1	3857.5	3844.3	3901.2	4030.9	4132.8	4176.5	4193.7
47.5°	4711.3	4690.2	4563.1	4376.4	4210.9	4159.3	4207.0	4369.8	4522.0	4585.6	4620.0
50°	5322.9	5297.8	5169.4	4916.5	4641.2	4547.2	4576.3	4778.8	4956.2	5037.0	5097.9
52.5°	5980.8	5976.9	5812.7	5521.5	5153.5	5001.2	4992.0	5235.5	5473.8	5581.1	5614.2
55°	6686.4	6666.6	6519.6	6203.2	5777.0	5492.4	5493.7	5763.7	6055.0	6195.3	6211.2
57.5°	7378.7	7370.8	7208.0	6937.9	6502.4	6127.8	6090.7	6449.5	6743.3	6858.5	6863.8
60°	8032.7	8057.8	7973.1	7725.6	7374.8	6951.2	6896.9	7200.0	7450.2	7549.5	7585.3
62.5°	8760.8	8768.7	8758.1	8575.4	8308.0	8022.1	7888.4	8043.3	8290.8	8372.9	8355.7
65°	9281.0	9332.6	9453.1	9547.1	9490.2	9271.8	9095.7	9103.6	9152.6	9099.7	9095.7
67.5°	8617.8	8730.3	9140.7	9801.3	10579.6	10919.9	10205.0	9406.8	9110.3	8918.3	8917.0
70°	7529.7	7605.1	8117.4	9259.8	10964.9	11465.3	10659.1	9202.9	8621.8	8394.1	8313.3
72.5°	6405.8	6465.3	7029.3	8195.5	10353.3	11143.6	10369.2	8604.6	7839.4	7337.7	7347.0
75°	5334.8	5325.6	5751.8	6949.8	9164.5	10234.1	9601.4	7658.1	6568.6	6111.9	6060.3
77.5°	3698.6	3783.4	4267.9	5492.4	7430.4	8660.2	8567.5	6303.8	5034.3	4547.2	4579.0
80°	1938.0	1991.0	2565.5	3729.1	5436.8	6642.7	6520.9	4458.5	3252.5	2713.7	2611.8
82.5°	807.5	841.9	1172.9	2014.8	3322.7	4134.2	4078.6	2717.7	1813.6	1262.9	1260.2
85°	342.9	344.2	497.7	863.1	1677.2	1964.5	1576.6	1167.6	635.4	398.5	356.1
87.5°	145.6	150.9	202.5	395.8	530.8	428.9	252.8	156.2	104.6	63.5	49.0
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)