

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: P510050

Luminaire Tested: **VERD-M-CA4-190-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510050  
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-CA4-190-750-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 870mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28991 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

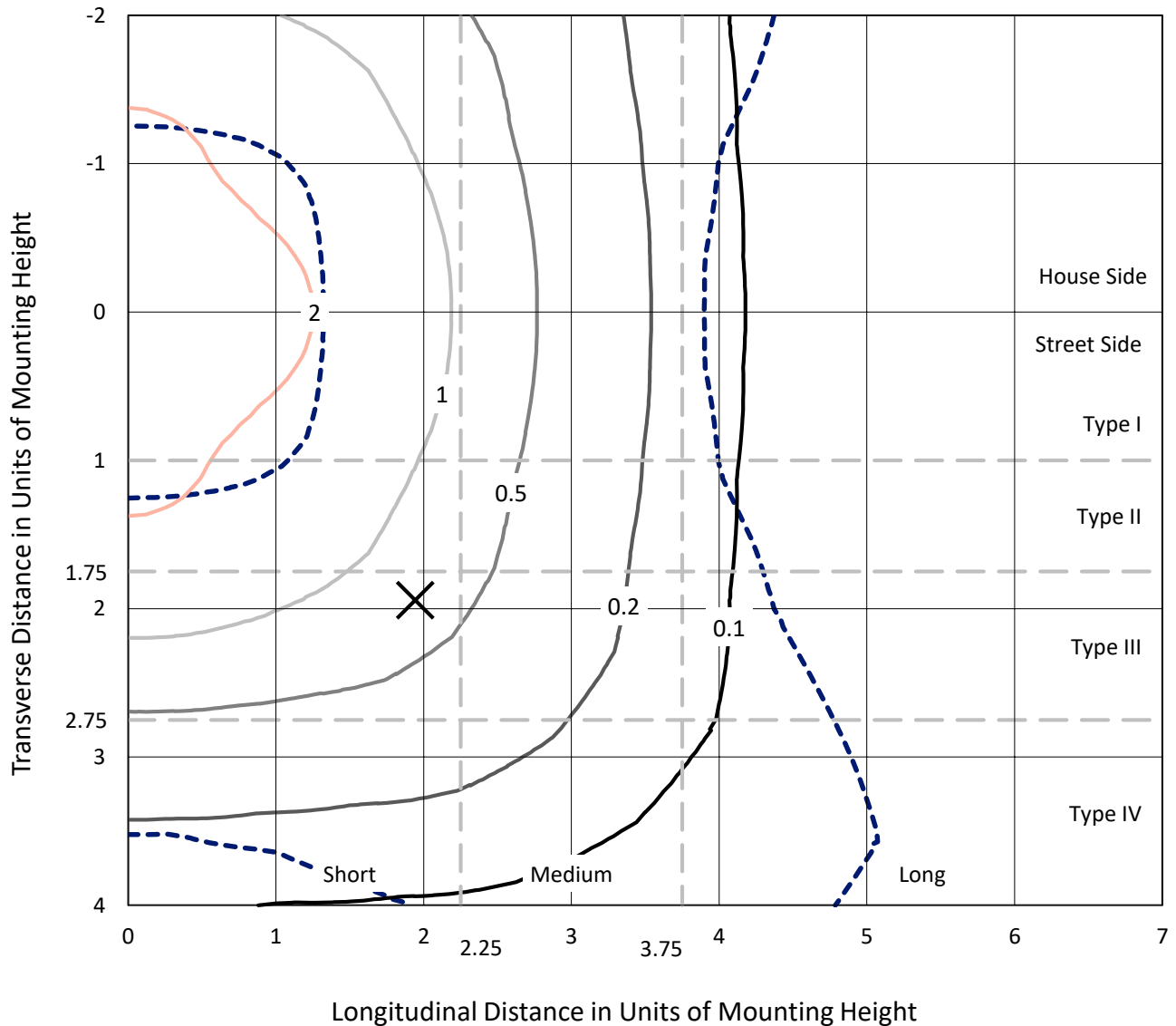
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

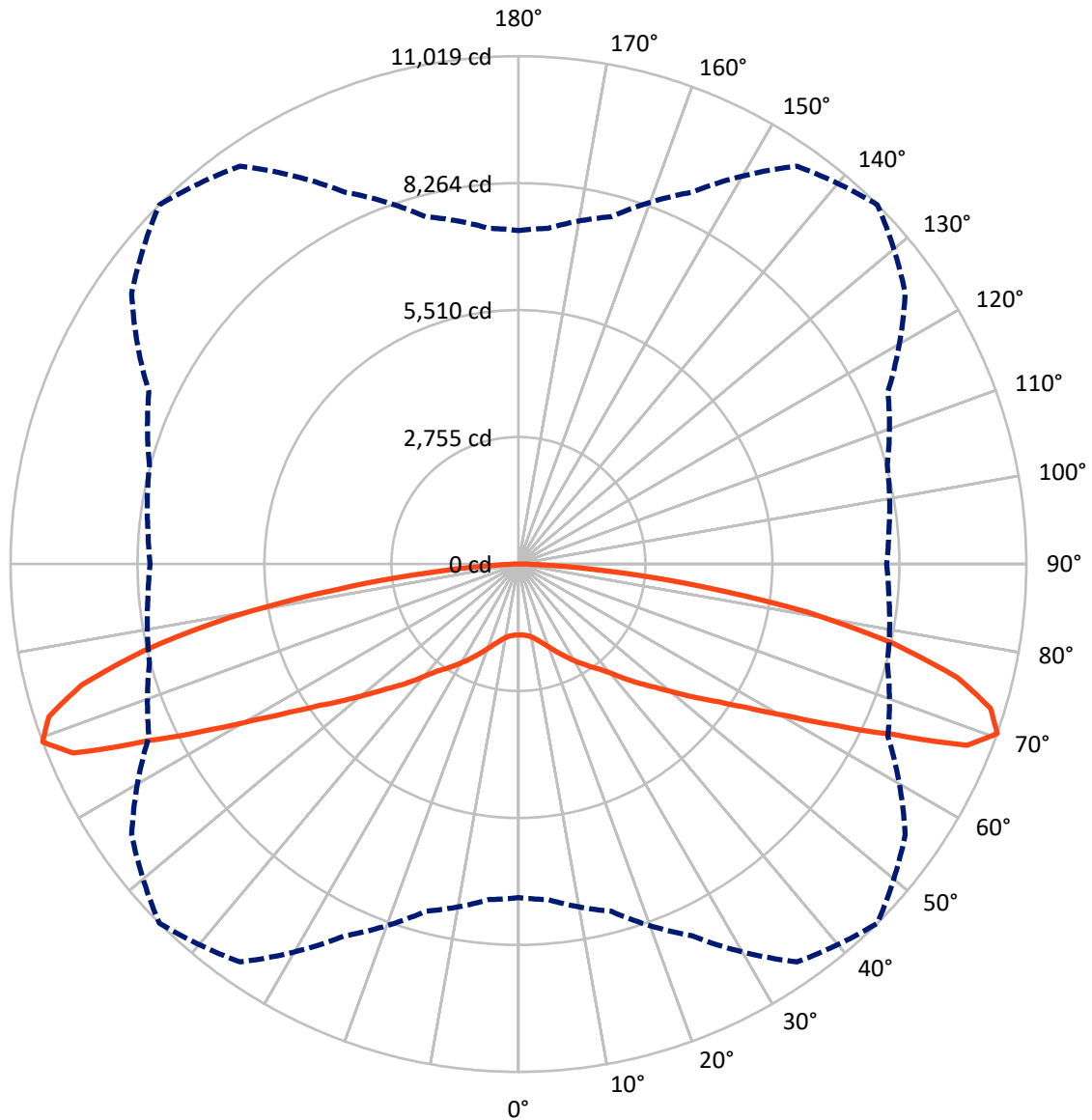
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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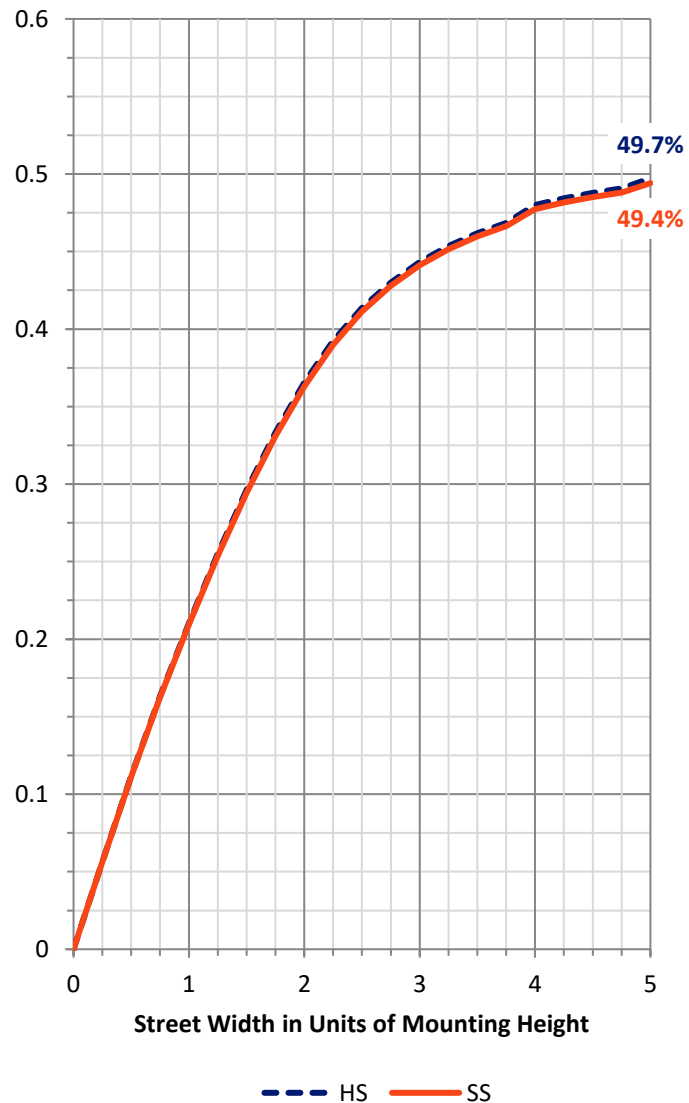
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14495.5	0.0	14495.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14495.5	0.0	14495.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28991.0	0.0	28991.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.8	0.5
10°-20°	499.1	1.7
20°-30°	998.2	3.4
30°-40°	1736.9	6.0
40°-50°	3021.9	10.4
50°-60°	5261.4	18.1
60°-70°	8521.2	29.4
70°-80°	7310.3	25.2
80°-90°	1491.1	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°	28991.0	100.0
0°-180°	28991.0	100.0



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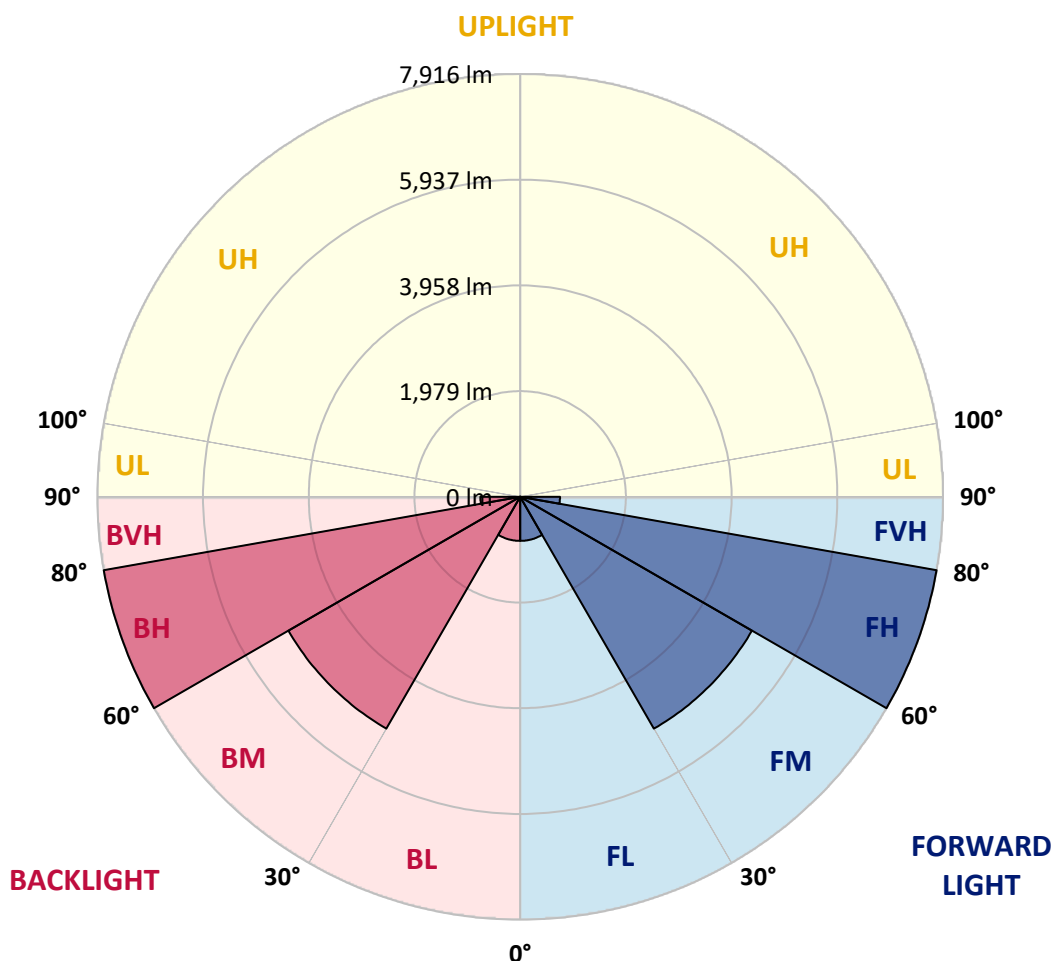
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	824.1	2.8			
FM	(30°-60°)	5010.1	17.3			
FH	(60°-80°)	7915.8	27.3			G4/12000
FVH	(80°-90°)	745.6	2.6			G4/750
BL	(0°-30°)	824.1	2.8	B2/1000		
BM	(30°-60°)	5010.1	17.3	B4/8500		
BH	(60°-80°)	7915.8	27.3	B5		G4/12000
BVH	(80°-90°)	745.6	2.6			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0	1542.0
2.5°	1536.9	1545.8	1544.5	1542.0	1538.2	1538.2	1540.7	1549.6	1550.9	1550.9	1550.9
5°	1554.7	1563.6	1562.3	1559.8	1556.0	1554.7	1557.2	1566.2	1567.4	1567.4	1568.7
7.5°	1575.1	1585.2	1585.2	1584.0	1575.1	1575.1	1577.6	1589.1	1589.1	1591.6	1594.1
10°	1609.4	1620.9	1624.7	1619.6	1614.5	1612.0	1614.5	1625.9	1624.7	1622.1	1623.4
12.5°	1656.5	1667.9	1676.8	1675.6	1670.5	1667.9	1670.5	1676.8	1669.2	1659.0	1659.0
15°	1715.0	1730.3	1740.5	1740.5	1746.8	1743.0	1739.2	1740.5	1729.0	1720.1	1720.1
17.5°	1790.1	1802.8	1811.7	1819.3	1829.5	1829.5	1820.6	1818.1	1802.8	1795.2	1796.4
20°	1881.7	1891.8	1904.6	1910.9	1931.3	1932.6	1917.3	1910.9	1895.7	1885.5	1888.0
22.5°	1980.9	1998.7	2003.8	2022.9	2047.1	2048.3	2028.0	2014.0	1998.7	1991.1	1992.4
25°	2100.5	2118.3	2114.5	2131.0	2167.9	2171.7	2148.8	2128.5	2115.8	2108.1	2110.7
27.5°	2231.5	2249.4	2248.1	2248.1	2291.3	2307.9	2276.1	2254.4	2257.0	2243.0	2248.1
30°	2371.5	2386.8	2395.7	2380.4	2422.4	2449.1	2398.2	2400.8	2399.5	2390.6	2389.3
32.5°	2535.6	2549.6	2548.3	2538.2	2550.9	2589.0	2548.3	2561.1	2564.9	2566.1	2576.3
35°	2722.6	2739.2	2721.4	2707.4	2708.6	2745.5	2715.0	2735.4	2755.7	2763.3	2763.3
37.5°	2922.4	2931.3	2912.2	2890.6	2885.5	2905.8	2900.8	2933.8	2968.2	2987.3	2997.4
40°	3180.6	3188.3	3151.4	3109.4	3101.8	3124.7	3131.0	3203.5	3255.7	3291.3	3297.7
42.5°	3539.4	3538.2	3486.0	3408.4	3371.5	3407.1	3452.9	3536.9	3624.7	3632.3	3659.0
45°	4001.3	3983.4	3916.0	3800.2	3707.4	3694.6	3749.3	3874.0	3972.0	4014.0	4030.5
47.5°	4528.0	4507.6	4385.5	4206.1	4047.1	3997.4	4043.2	4199.7	4346.0	4407.1	4440.2
50°	5115.8	5091.6	4968.2	4725.2	4460.5	4370.2	4398.2	4592.9	4763.3	4840.9	4899.5
52.5°	5748.1	5744.3	5586.5	5306.6	4952.9	4806.6	4797.7	5031.8	5260.8	5363.8	5395.7
55°	6426.2	6407.1	6265.9	5961.8	5552.1	5278.6	5279.9	5539.4	5819.3	5954.2	5969.4
57.5°	7091.6	7083.9	6927.5	6667.9	6249.3	5889.3	5853.7	6198.4	6480.9	6591.6	6596.7
60°	7720.1	7744.2	7662.8	7424.9	7087.8	6680.6	6628.5	6919.8	7160.3	7255.7	7290.0
62.5°	8419.8	8427.4	8417.3	8241.7	7984.7	7709.9	7581.4	7730.2	7968.2	8047.0	8030.5
65°	8919.8	8969.4	9085.2	9175.5	9120.8	8910.9	8741.7	8749.3	8796.4	8745.5	8741.7
67.5°	8282.4	8390.6	8785.0	9419.8	10167.9	10494.9	9807.8	9040.7	8755.7	8571.2	8569.9
70°	7236.6	7309.1	7801.5	8899.5	10538.1	11019.0	10244.2	8844.7	8286.2	8067.4	7989.8
72.5°	6156.5	6213.7	6755.7	7876.6	9950.3	10709.9	9965.6	8269.7	7534.3	7052.1	7061.0
75°	5127.2	5118.3	5528.0	6679.4	8807.9	9835.8	9227.7	7360.0	6313.0	5874.0	5824.4
77.5°	3554.7	3636.1	4101.8	5278.6	7141.2	8323.1	8234.1	6058.5	4838.4	4370.2	4400.7
80°	1862.6	1913.5	2465.6	3584.0	5225.2	6384.2	6267.1	4285.0	3125.9	2608.1	2510.2
82.5°	776.1	809.2	1127.2	1936.4	3193.4	3973.3	3919.8	2611.9	1743.0	1213.7	1211.2
85°	329.5	330.8	478.4	829.5	1612.0	1888.0	1515.3	1122.1	610.7	383.0	342.2
87.5°	139.9	145.0	194.7	380.4	510.2	412.2	243.0	150.1	100.5	61.1	47.1
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)