

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: P509906

Luminaire Tested: **VERD-M-CA3-160-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509906  
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-CA3-160-750-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1000mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24452 lumens  
Efficiency: N/A  
Efficacy: 150.3 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

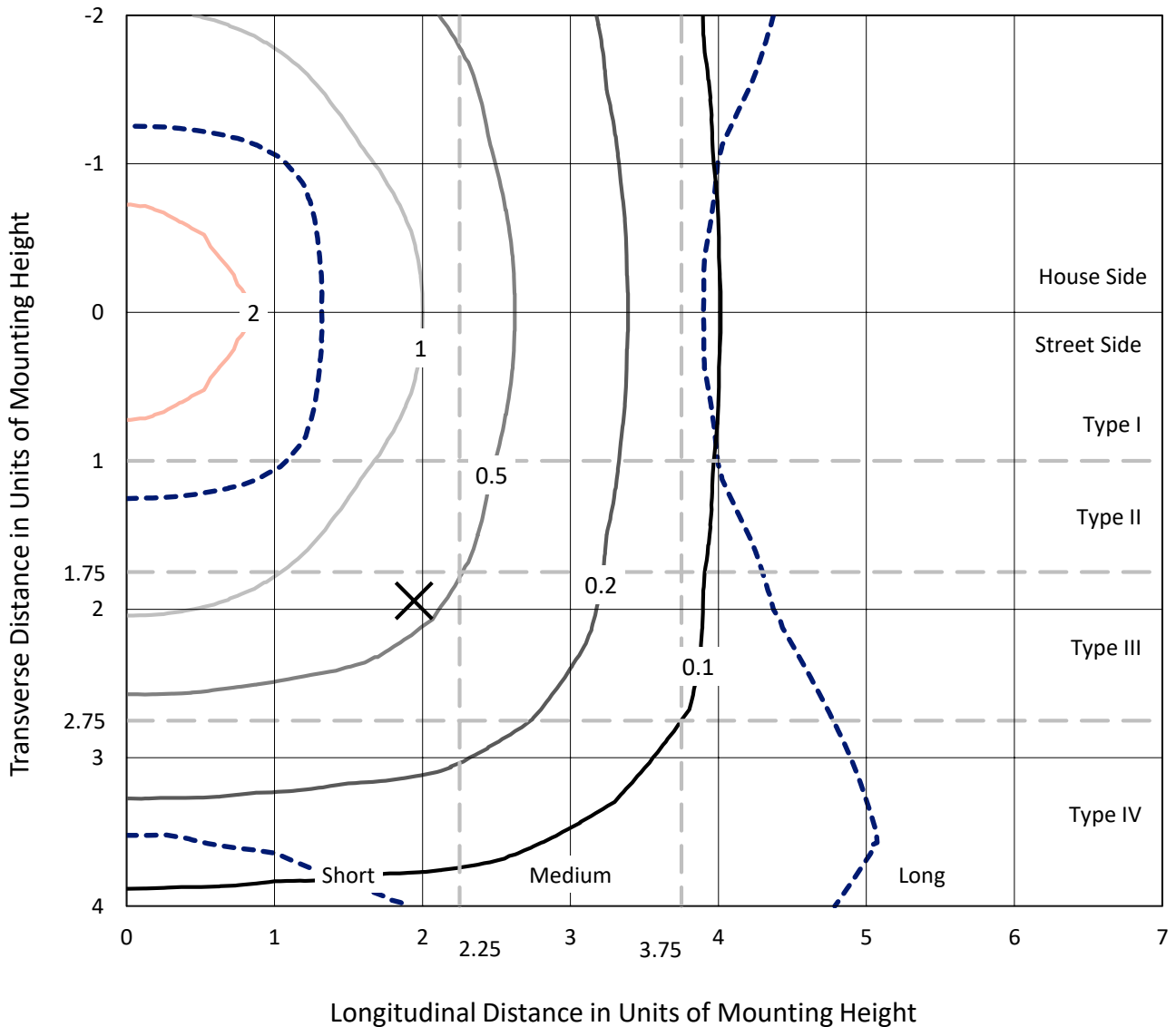
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

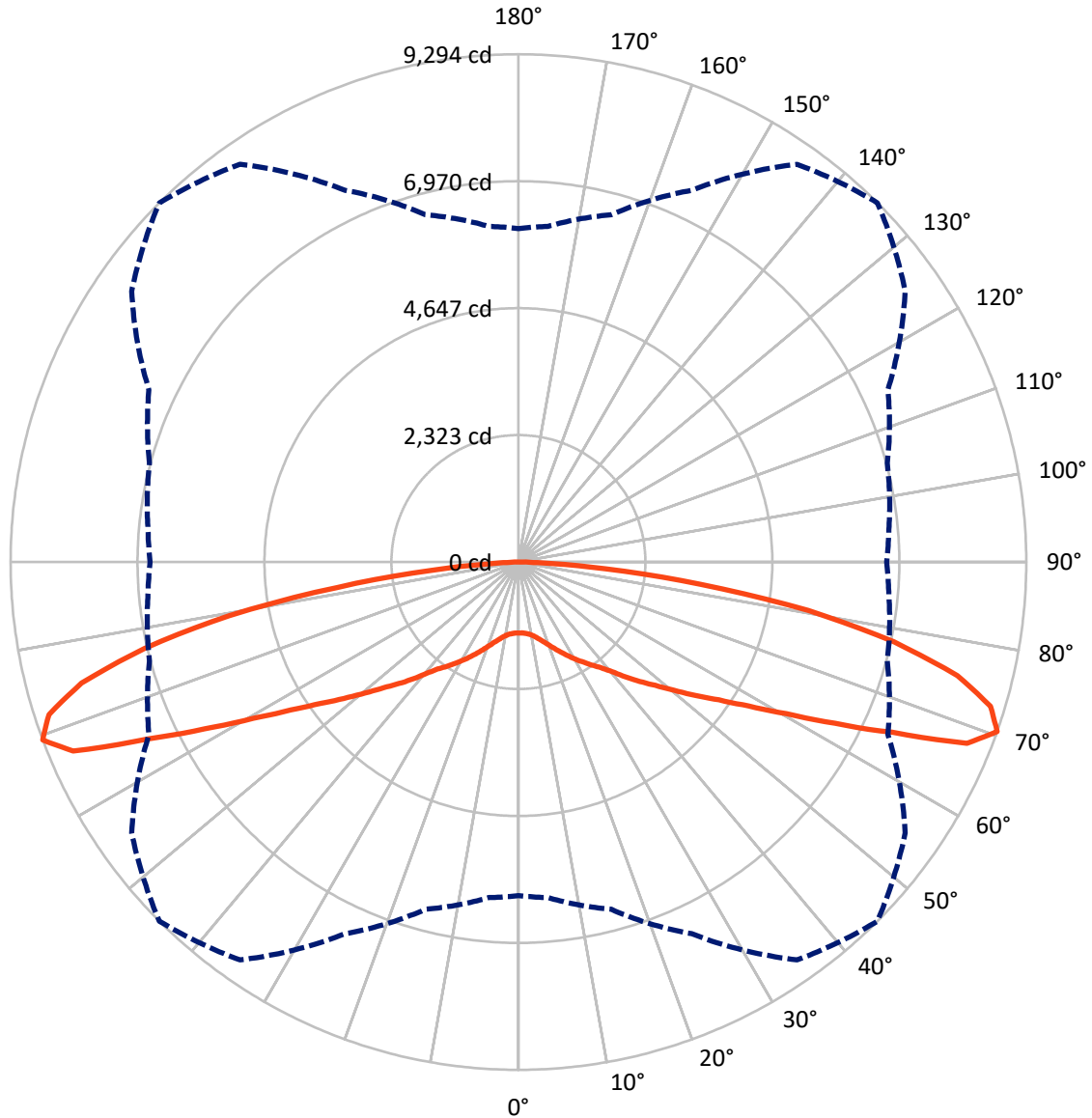
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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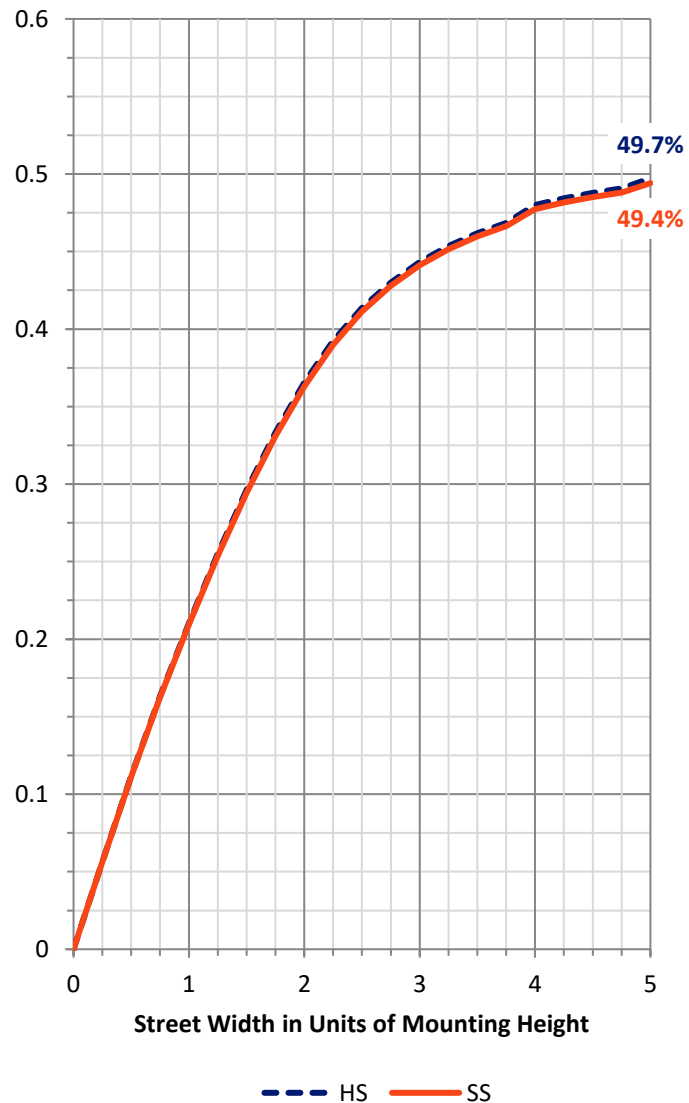
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12226.0	0.0	12226.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12226.0	0.0	12226.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24452.0	0.0	24452.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.2	0.5
10°-20°	421.0	1.7
20°-30°	842.0	3.4
30°-40°	1465.0	6.0
40°-50°	2548.7	10.4
50°-60°	4437.6	18.1
60°-70°	7187.1	29.4
70°-80°	6165.8	25.2
80°-90°	1257.7	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°	24452.0	100.0
0°-180°	24452.0	100.0



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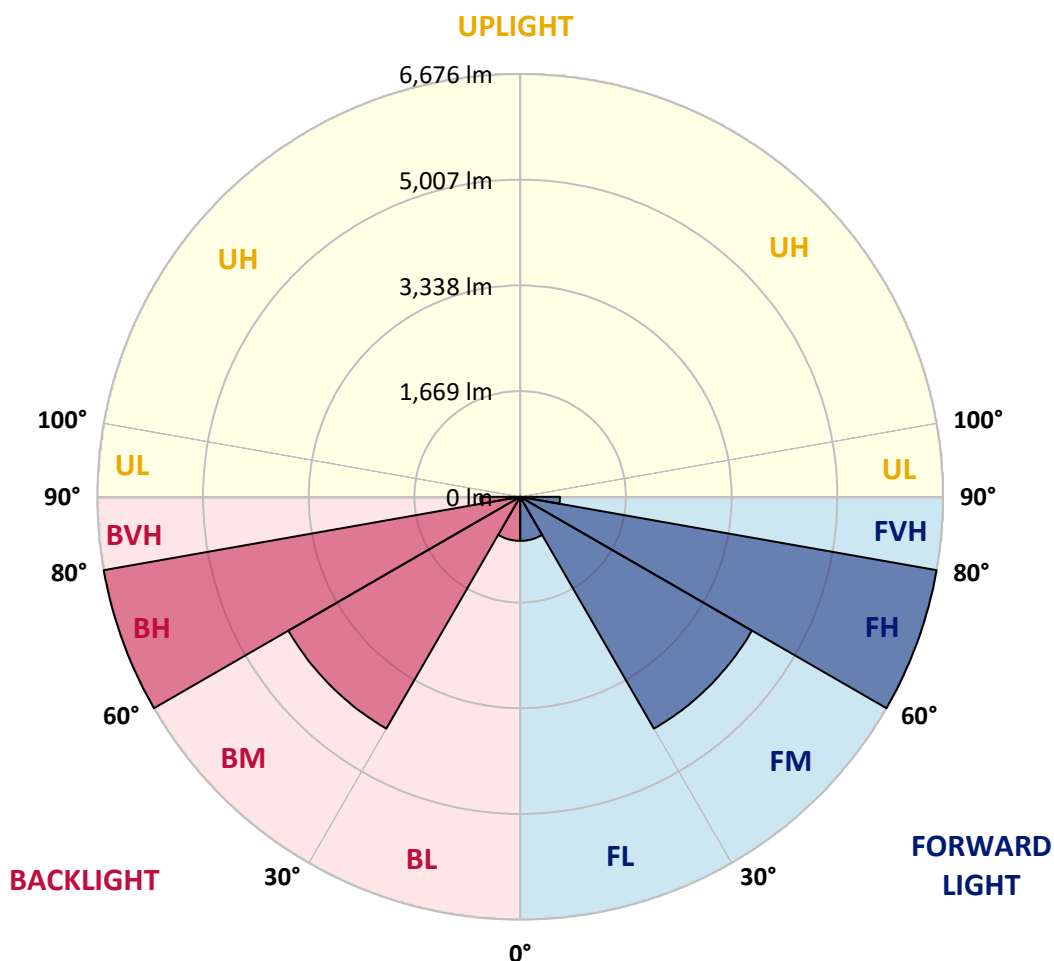
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.1	2.8			
FM	(30°-60°)	4225.7	17.3			
FH	(60°-80°)	6676.4	27.3			G3/7500
FVH	(80°-90°)	628.8	2.6			G4/750
BL	(0°-30°)	695.1	2.8	B2/1000		
BM	(30°-60°)	4225.7	17.3	B3/5000		
BH	(60°-80°)	6676.4	27.3	B5		G3/7500
BVH	(80°-90°)	628.8	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°	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6
2.5°	1296.3	1303.8	1302.7	1300.6	1297.3	1297.3	1299.5	1307.0	1308.1	1308.1	1308.1
5°	1311.3	1318.8	1317.7	1315.6	1312.4	1311.3	1313.4	1320.9	1322.0	1322.0	1323.1
7.5°	1328.5	1337.0	1337.0	1336.0	1328.5	1328.5	1330.6	1340.3	1340.3	1342.4	1344.6
10°	1357.4	1367.1	1370.3	1366.0	1361.7	1359.6	1361.7	1371.4	1370.3	1368.2	1369.2
12.5°	1397.1	1406.8	1414.3	1413.2	1408.9	1406.8	1408.9	1414.3	1407.9	1399.3	1399.3
15°	1446.5	1459.4	1468.0	1468.0	1473.3	1470.1	1466.9	1468.0	1458.3	1450.8	1450.8
17.5°	1509.8	1520.5	1528.0	1534.5	1543.1	1543.1	1535.6	1533.4	1520.5	1514.1	1515.2
20°	1587.1	1595.7	1606.4	1611.7	1628.9	1630.0	1617.1	1611.7	1598.9	1590.3	1592.4
22.5°	1670.8	1685.8	1690.1	1706.2	1726.6	1727.6	1710.5	1698.7	1685.8	1679.3	1680.4
25°	1771.6	1786.7	1783.4	1797.4	1828.5	1831.7	1812.4	1795.2	1784.5	1778.1	1780.2
27.5°	1882.2	1897.2	1896.1	1896.1	1932.6	1946.5	1919.7	1901.5	1903.6	1891.8	1896.1
30°	2000.2	2013.1	2020.6	2007.7	2043.1	2065.7	2022.7	2024.9	2023.8	2016.3	2015.2
32.5°	2138.6	2150.4	2149.4	2140.8	2151.5	2183.7	2149.4	2160.1	2163.3	2164.4	2173.0
35°	2296.4	2310.3	2295.3	2283.5	2284.6	2315.7	2289.9	2307.1	2324.3	2330.7	2330.7
37.5°	2464.8	2472.3	2456.3	2438.0	2433.7	2450.9	2446.6	2474.5	2503.5	2519.6	2528.1
40°	2682.7	2689.1	2658.0	2622.6	2616.1	2635.5	2640.8	2702.0	2746.0	2776.0	2781.4
42.5°	2985.3	2984.2	2940.2	2874.7	2843.6	2873.7	2912.3	2983.1	3057.2	3063.6	3086.1
45°	3374.8	3359.8	3302.9	3205.3	3126.9	3116.2	3162.3	3267.5	3350.1	3385.5	3399.5
47.5°	3819.0	3801.9	3698.9	3547.6	3413.4	3371.6	3410.2	3542.2	3665.6	3717.1	3745.0
50°	4314.8	4294.4	4190.3	3985.4	3762.2	3686.0	3709.6	3873.8	4017.6	4083.0	4132.4
52.5°	4848.1	4844.9	4711.8	4475.8	4177.4	4054.0	4046.5	4244.0	4437.1	4524.1	4550.9
55°	5420.1	5404.0	5284.9	5028.4	4682.9	4452.2	4453.2	4672.1	4908.2	5022.0	5034.8
57.5°	5981.3	5974.8	5842.8	5623.9	5270.9	4967.2	4937.2	5228.0	5466.2	5559.6	5563.9
60°	6511.4	6531.8	6463.1	6262.4	5978.1	5634.7	5590.7	5836.4	6039.2	6119.7	6148.7
62.5°	7101.6	7108.0	7099.4	6951.3	6734.6	6502.8	6394.4	6520.0	6720.6	6787.1	6773.2
65°	7523.3	7565.1	7662.8	7739.0	7692.8	7515.8	7373.0	7379.5	7419.2	7376.3	7373.0
67.5°	6985.7	7076.9	7409.5	7945.0	8576.0	8851.7	8272.3	7625.2	7384.8	7229.3	7228.2
70°	6103.6	6164.8	6580.0	7506.1	8888.2	9293.8	8640.3	7460.0	6988.9	6804.3	6738.9
72.5°	5192.6	5240.9	5698.0	6643.4	8392.5	9033.1	8405.3	6974.9	6354.7	5948.0	5955.5
75°	4324.5	4316.9	4662.5	5633.6	7428.8	8295.9	7783.0	6207.7	5324.6	4954.4	4912.5
77.5°	2998.1	3066.8	3459.6	4452.2	6023.1	7020.0	6944.9	5109.9	4080.9	3686.0	3711.7
80°	1571.0	1613.9	2079.6	3022.8	4407.1	5384.7	5285.9	3614.1	2636.5	2199.8	2117.2
82.5°	654.6	682.5	950.7	1633.2	2693.4	3351.2	3306.1	2203.0	1470.1	1023.7	1021.6
85°	277.9	279.0	403.5	699.6	1359.6	1592.4	1278.0	946.4	515.1	323.0	288.7
87.5°	118.0	122.3	164.2	320.8	430.3	347.7	205.0	126.6	84.8	51.5	39.7
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)