

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: P510210

Luminaire Tested: **VERD-M-CA4-230-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510210
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-CA4-230-722-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27196 lumens
Efficiency: N/A
Efficacy: 116.6 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

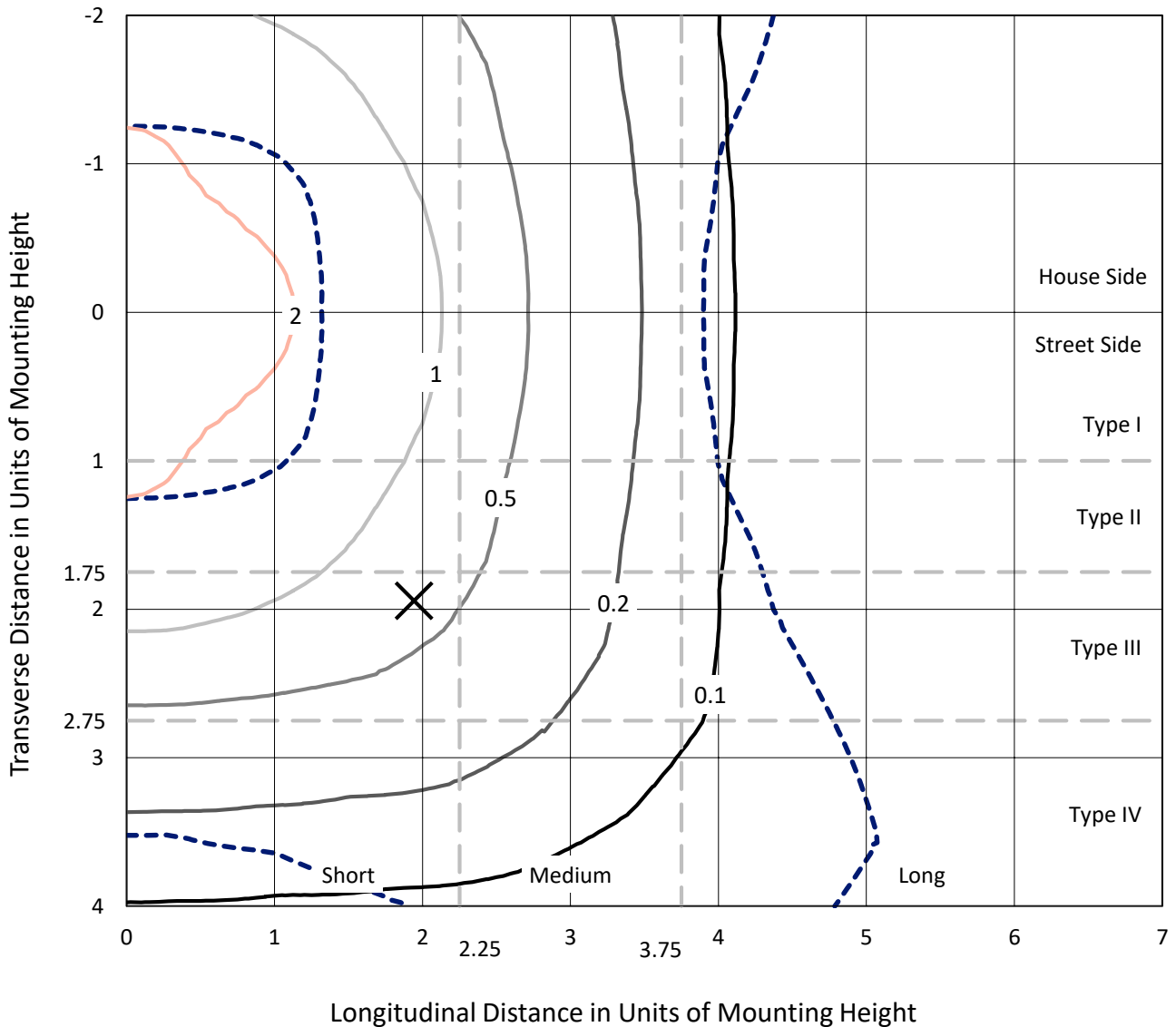
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

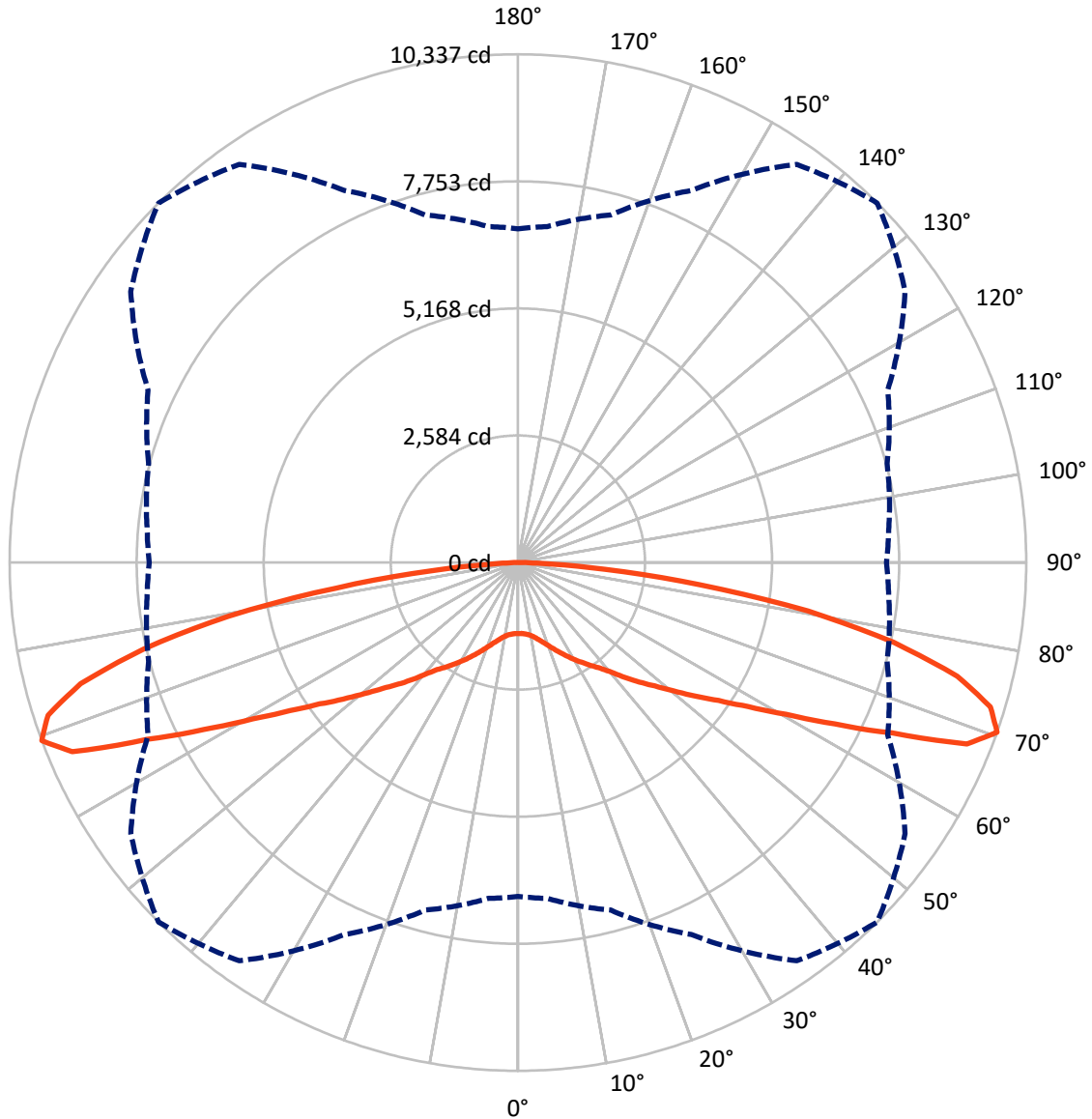
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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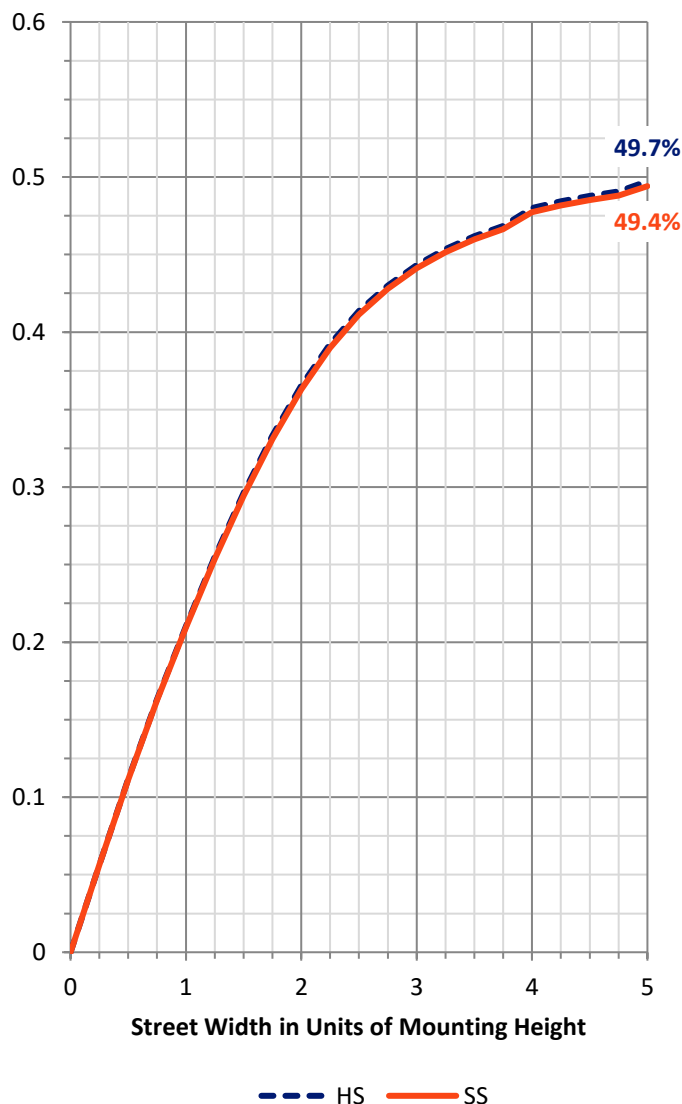
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13598.0	0.0	13598.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13598.0	0.0	13598.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27196.0	0.0	27196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	0.5
10°-20°	468.2	1.7
20°-30°	936.4	3.4
30°-40°	1629.4	6.0
40°-50°	2834.8	10.4
50°-60°	4935.6	18.1
60°-70°	7993.7	29.4
70°-80°	6857.7	25.2
80°-90°	1398.8	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°	27196.0	100.0
0°-180°	27196.0	100.0

Coefficient of Utilization



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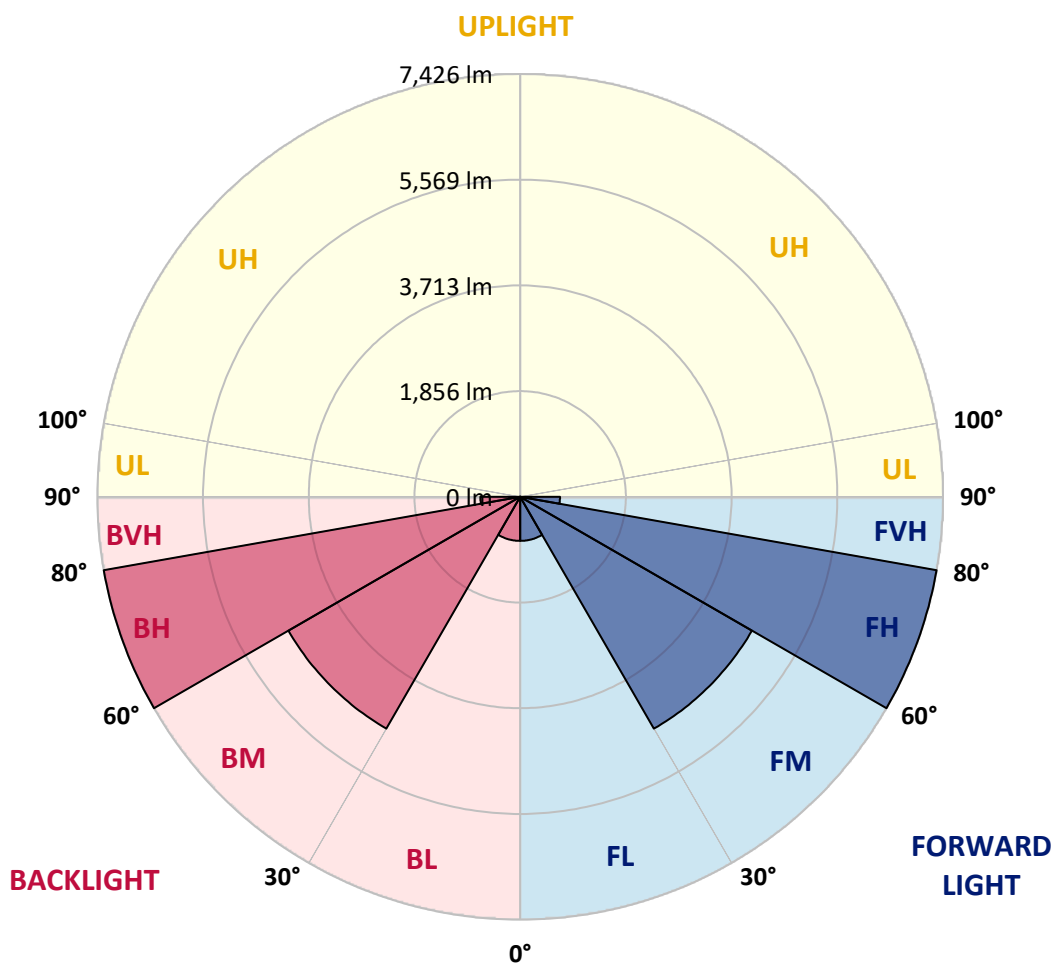
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.1	2.8			
FM (30°-60°)	4699.9	17.3			
FH (60°-80°)	7425.7	27.3			G3/7500
FVH (80°-90°)	699.4	2.6			G4/750
BL (0°-30°)	773.1	2.8	B2/1000		
BM (30°-60°)	4699.9	17.3	B3/5000		
BH (60°-80°)	7425.7	27.3	B5		G3/7500
BVH (80°-90°)	699.4	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°	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5
2.5°	1441.7	1450.1	1448.9	1446.5	1442.9	1442.9	1445.3	1453.7	1454.9	1454.9	1454.9
5°	1458.4	1466.8	1465.6	1463.2	1459.6	1458.4	1460.8	1469.2	1470.4	1470.4	1471.6
7.5°	1477.5	1487.1	1487.1	1485.9	1477.5	1477.5	1479.9	1490.7	1490.7	1493.1	1495.4
10°	1509.8	1520.5	1524.1	1519.3	1514.5	1512.1	1514.5	1525.3	1524.1	1521.7	1522.9
12.5°	1553.9	1564.7	1573.0	1571.8	1567.0	1564.7	1567.0	1573.0	1565.9	1556.3	1556.3
15°	1608.8	1623.1	1632.7	1632.7	1638.7	1635.1	1631.5	1632.7	1621.9	1613.6	1613.6
17.5°	1679.2	1691.2	1699.5	1706.7	1716.2	1716.2	1707.9	1705.5	1691.2	1684.0	1685.2
20°	1765.2	1774.7	1786.6	1792.6	1811.7	1812.9	1798.6	1792.6	1778.3	1768.7	1771.1
22.5°	1858.3	1875.0	1879.7	1897.6	1920.3	1921.5	1902.4	1889.3	1875.0	1867.8	1869.0
25°	1970.4	1987.2	1983.6	1999.1	2033.7	2037.3	2015.8	1996.7	1984.8	1977.6	1980.0
27.5°	2093.4	2110.1	2108.9	2108.9	2149.5	2165.0	2135.1	2114.9	2117.2	2104.1	2108.9
30°	2224.7	2239.0	2247.3	2233.0	2272.4	2297.5	2249.7	2252.1	2250.9	2242.6	2241.4
32.5°	2378.6	2391.7	2390.6	2381.0	2392.9	2428.7	2390.6	2402.5	2406.1	2407.3	2416.8
35°	2554.1	2569.6	2552.9	2539.7	2540.9	2575.5	2546.9	2566.0	2585.1	2592.3	2592.3
37.5°	2741.4	2749.8	2731.9	2711.6	2706.8	2725.9	2721.1	2752.2	2784.4	2802.3	2811.9
40°	2983.7	2990.9	2956.3	2916.9	2909.7	2931.2	2937.2	3005.2	3054.1	3087.5	3093.5
42.5°	3320.3	3319.1	3270.2	3197.4	3162.7	3196.2	3239.1	3317.9	3400.2	3407.4	3432.5
45°	3753.5	3736.8	3673.6	3564.9	3477.8	3465.9	3517.2	3634.2	3726.1	3765.4	3781.0
47.5°	4247.6	4228.5	4113.9	3945.7	3796.5	3749.9	3792.9	3939.7	4076.9	4134.2	4165.3
50°	4799.0	4776.3	4660.6	4432.6	4184.4	4099.6	4125.9	4308.5	4468.4	4541.2	4596.1
52.5°	5392.2	5388.6	5240.6	4978.0	4646.2	4509.0	4500.6	4720.2	4935.1	5031.7	5061.6
55°	6028.3	6010.4	5877.9	5592.7	5208.4	4951.8	4953.0	5196.4	5459.0	5585.5	5599.8
57.5°	6652.5	6645.3	6498.5	6255.1	5862.4	5524.6	5491.2	5814.7	6079.6	6183.5	6188.2
60°	7242.1	7264.8	7188.4	6965.2	6648.9	6267.0	6218.1	6491.4	6716.9	6806.5	6838.7
62.5°	7898.5	7905.7	7896.1	7731.4	7490.3	7232.5	7112.0	7251.6	7474.8	7548.8	7533.3
65°	8367.5	8414.1	8522.7	8607.4	8556.1	8359.2	8200.4	8207.6	8251.8	8204.0	8200.4
67.5°	7769.6	7871.0	8241.0	8836.6	9538.3	9845.1	9200.6	8480.9	8213.6	8040.5	8039.3
70°	6788.6	6856.6	7318.5	8348.4	9885.6	10336.8	9610.0	8297.1	7773.2	7567.9	7495.1
72.5°	5775.3	5829.0	6337.4	7388.9	9334.3	10046.8	9348.6	7757.7	7067.8	6615.5	6623.8
75°	4809.8	4801.4	5185.7	6265.8	8262.5	9226.8	8656.4	6904.3	5922.1	5510.3	5463.8
77.5°	3334.6	3411.0	3847.8	4951.8	6699.0	7807.8	7724.2	5683.4	4538.8	4099.6	4128.3
80°	1747.3	1795.0	2313.0	3362.1	4901.6	5988.9	5879.1	4019.7	2932.4	2446.6	2354.7
82.5°	728.0	759.1	1057.4	1816.5	2995.7	3727.3	3677.1	2450.2	1635.1	1138.6	1136.2
85°	309.1	310.3	448.8	778.2	1512.1	1771.1	1421.4	1052.7	572.9	359.2	321.0
87.5°	131.3	136.1	182.6	356.9	478.6	386.7	228.0	140.8	94.3	57.3	44.2
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)