

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: P510154

Luminaire Tested: **VERD-M-CA4-210-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510154
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-CA4-210-760-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 960mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30905 lumens
Efficiency: N/A
Efficacy: 144.7 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

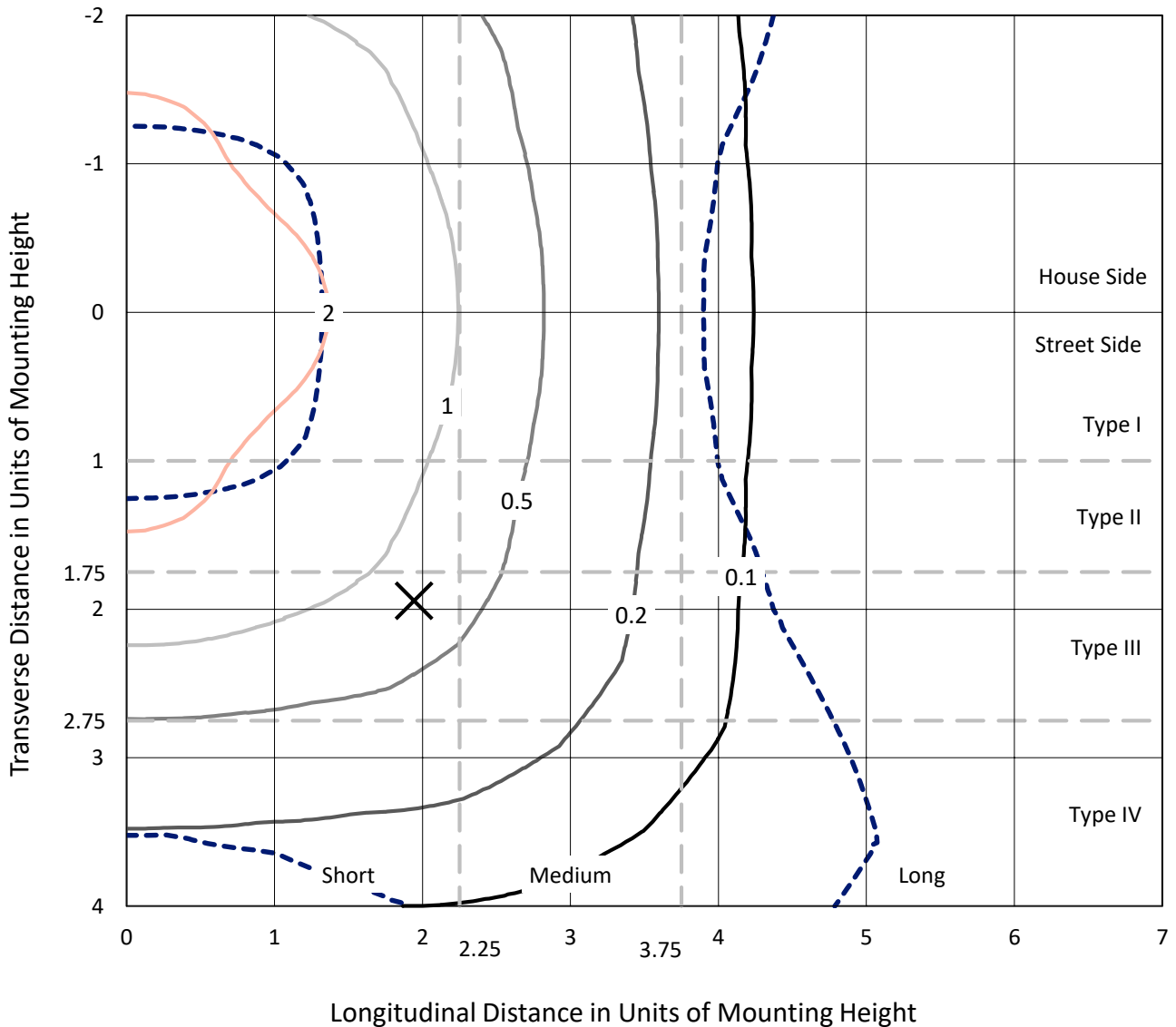
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

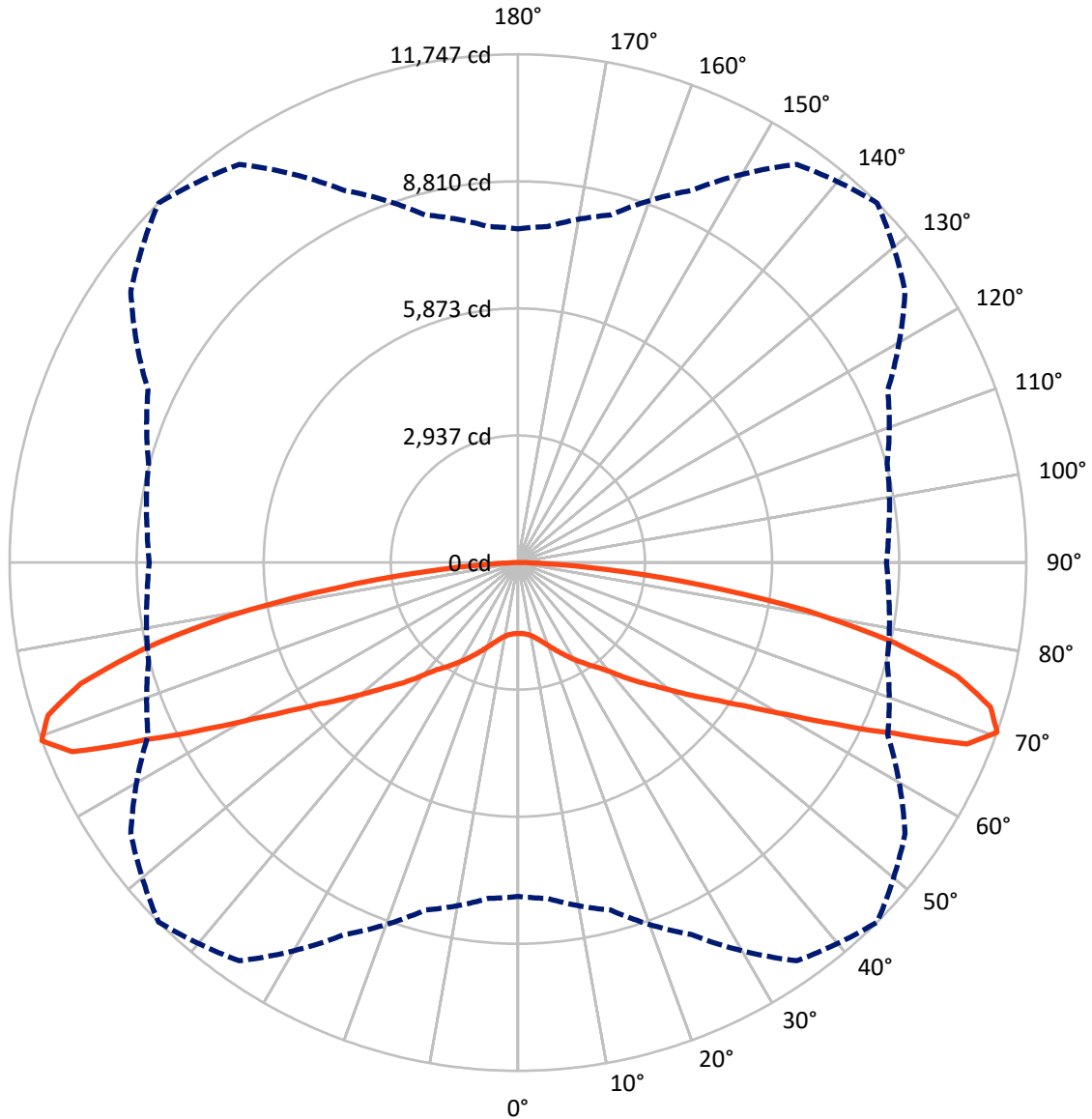
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	15452.5	0.0	15452.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15452.5	0.0	15452.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30905.0	0.0	30905.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	0.5
10°-20°	532.1	1.7
20°-30°	1064.2	3.4
30°-40°	1851.6	6.0
40°-50°	3221.4	10.4
50°-60°	5608.7	18.1
60°-70°	9083.8	29.4
70°-80°	7792.9	25.2
80°-90°	1589.6	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°	30905.0	100.0
0°-180°	30905.0	100.0



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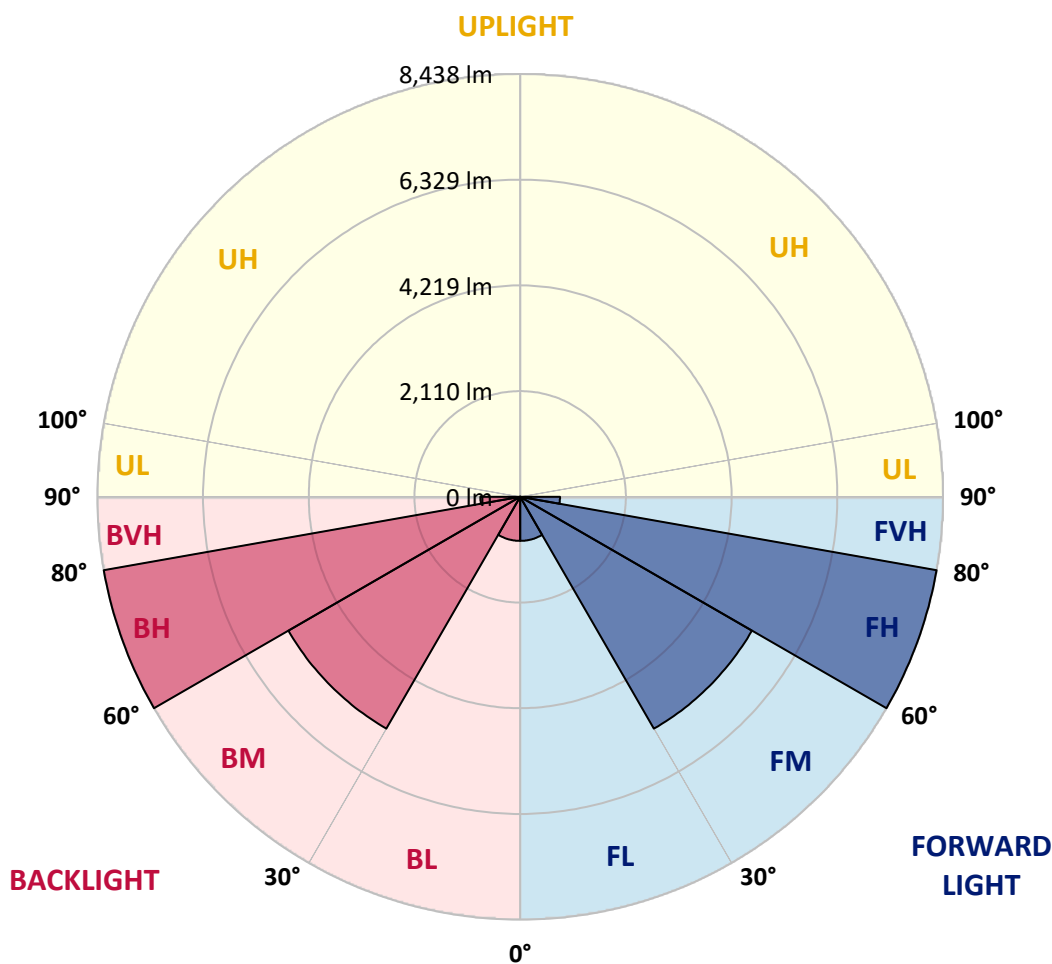
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.5	2.8			
FM (30°-60°)	5340.8	17.3			
FH (60°-80°)	8438.4	27.3			G4/12000
FVH (80°-90°)	794.8	2.6			G5
BL (0°-30°)	878.5	2.8	B2/1000		
BM (30°-60°)	5340.8	17.3	B4/8500		
BH (60°-80°)	8438.4	27.3	B5		G4/12000
BVH (80°-90°)	794.8	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°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8
2.5°	1638.4	1647.8	1646.5	1643.8	1639.7	1639.7	1642.4	1651.9	1653.3	1653.3	1653.3
5°	1657.3	1666.8	1665.5	1662.8	1658.7	1657.3	1660.1	1669.5	1670.9	1670.9	1672.3
7.5°	1679.0	1689.9	1689.9	1688.5	1679.0	1679.0	1681.8	1694.0	1694.0	1696.7	1699.4
10°	1715.7	1727.9	1731.9	1726.5	1721.1	1718.4	1721.1	1733.3	1731.9	1729.2	1730.6
12.5°	1765.8	1778.0	1787.5	1786.2	1780.8	1778.0	1780.8	1787.5	1779.4	1768.6	1768.6
15°	1828.2	1844.5	1855.4	1855.4	1862.1	1858.1	1854.0	1855.4	1843.1	1833.7	1833.7
17.5°	1908.3	1921.8	1931.3	1939.4	1950.3	1950.3	1940.8	1938.1	1921.8	1913.7	1915.0
20°	2005.9	2016.8	2030.3	2037.1	2058.8	2060.2	2043.9	2037.1	2020.8	2010.0	2012.7
22.5°	2111.7	2130.7	2136.1	2156.4	2182.2	2183.6	2161.9	2147.0	2130.7	2122.5	2123.9
25°	2239.2	2258.2	2254.1	2271.7	2311.1	2315.1	2290.7	2269.0	2255.5	2247.3	2250.0
27.5°	2378.9	2397.9	2396.5	2396.5	2442.6	2460.2	2426.3	2403.3	2406.0	2391.1	2396.5
30°	2528.1	2544.3	2553.8	2537.6	2582.3	2610.8	2556.5	2559.3	2557.9	2548.4	2547.0
32.5°	2703.0	2717.9	2716.6	2705.7	2719.3	2760.0	2716.6	2730.1	2734.2	2735.6	2746.4
35°	2902.4	2920.0	2901.0	2886.1	2887.5	2926.8	2894.2	2915.9	2937.6	2945.8	2945.8
37.5°	3115.3	3124.8	3104.5	3081.4	3076.0	3097.7	3092.3	3127.5	3164.1	3184.5	3195.3
40°	3390.6	3398.8	3359.4	3314.7	3306.5	3331.0	3337.7	3415.0	3470.7	3508.6	3515.4
42.5°	3773.1	3771.7	3716.1	3633.4	3594.1	3632.0	3680.9	3770.4	3864.0	3872.1	3900.6
45°	4265.4	4246.4	4174.6	4051.1	3952.1	3938.6	3996.9	4129.8	4234.2	4279.0	4296.6
47.5°	4826.9	4805.2	4675.0	4483.8	4314.2	4261.4	4310.2	4477.0	4633.0	4698.1	4733.3
50°	5453.5	5427.7	5296.2	5037.1	4755.0	4658.7	4688.6	4896.1	5077.8	5160.5	5222.9
52.5°	6127.6	6123.5	5955.3	5656.9	5279.9	5123.9	5114.4	5364.0	5608.1	5718.0	5751.9
55°	6850.4	6830.1	6679.6	6355.4	5918.7	5627.1	5628.5	5905.1	6203.5	6347.3	6363.5
57.5°	7559.8	7551.6	7384.8	7108.1	6661.9	6278.1	6240.1	6607.7	6908.8	7026.8	7032.2
60°	8229.8	8255.5	8168.7	7915.1	7555.7	7121.7	7066.1	7376.7	7633.0	7734.7	7771.3
62.5°	8975.7	8983.8	8973.0	8785.8	8511.9	8218.9	8081.9	8240.6	8494.2	8578.3	8560.7
65°	9508.7	9561.6	9685.0	9781.3	9723.0	9499.2	9318.8	9327.0	9377.1	9322.9	9318.8
67.5°	8829.2	8944.5	9364.9	10041.7	10839.2	11187.7	10455.4	9637.5	9333.7	9137.1	9135.7
70°	7714.4	7791.7	8316.6	9487.0	11233.9	11746.5	10920.6	9428.7	8833.3	8600.0	8517.3
72.5°	6562.9	6623.9	7201.7	8396.6	10607.3	11417.0	10623.5	8815.7	8031.7	7517.7	7527.2
75°	5465.7	5456.2	5892.9	7120.3	9389.4	10485.2	9836.9	7845.9	6729.7	6261.8	6208.9
77.5°	3789.4	3876.2	4372.6	5627.1	7612.7	8872.6	8777.7	6458.5	5157.8	4658.7	4691.3
80°	1985.6	2039.8	2628.4	3820.6	5570.1	6805.7	6680.9	4567.9	3332.3	2780.3	2675.9
82.5°	827.3	862.6	1201.6	2064.2	3404.2	4235.6	4178.6	2784.4	1858.1	1293.9	1291.2
85°	351.3	352.6	510.0	884.3	1718.4	2012.7	1615.3	1196.2	651.0	408.2	364.8
87.5°	149.2	154.6	207.5	405.5	543.9	439.4	259.0	160.0	107.1	65.1	50.2
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)