

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: P510251

Luminaire Tested: **VERD-M-CA4-240-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-722-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1090mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28918 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

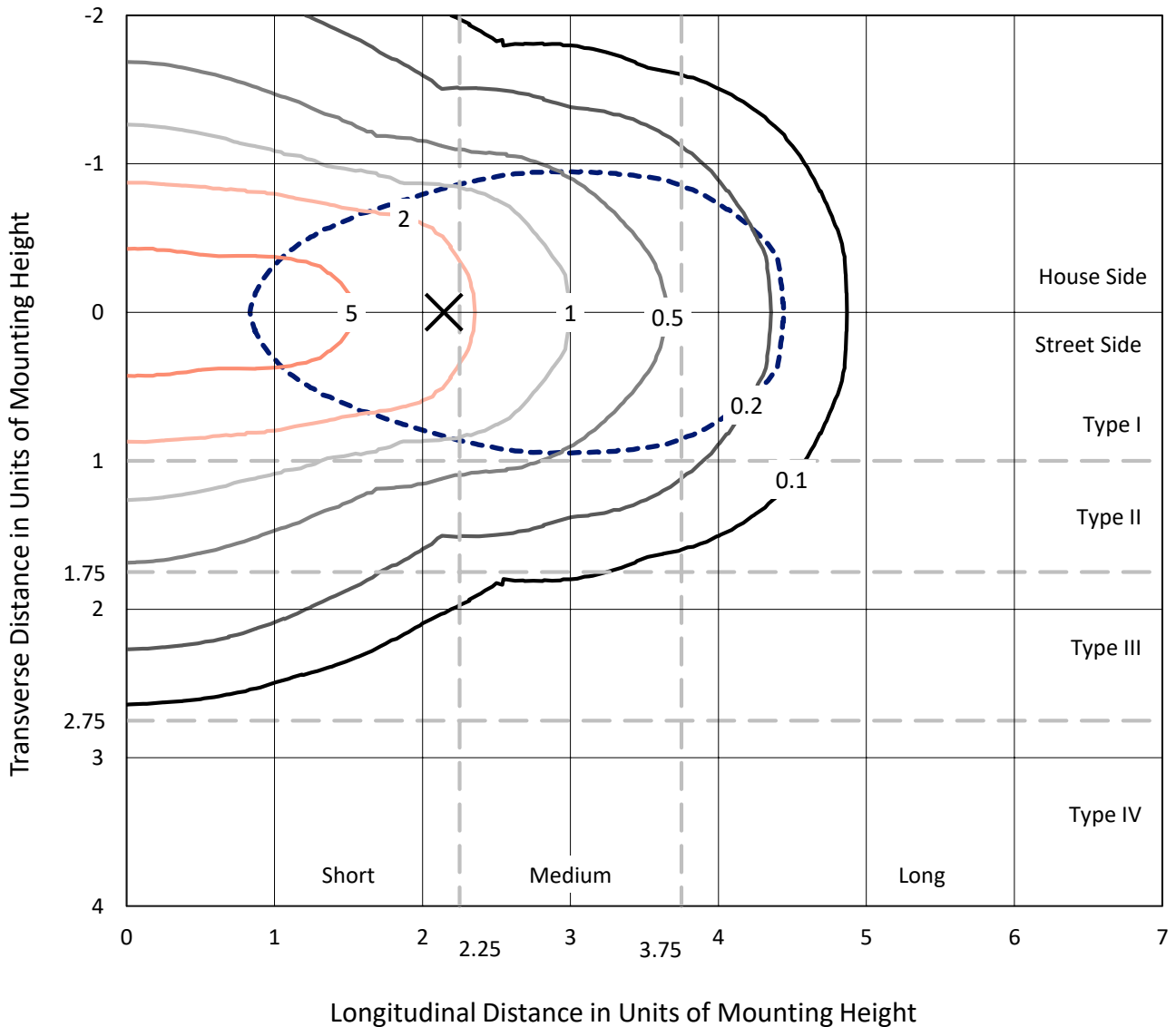
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

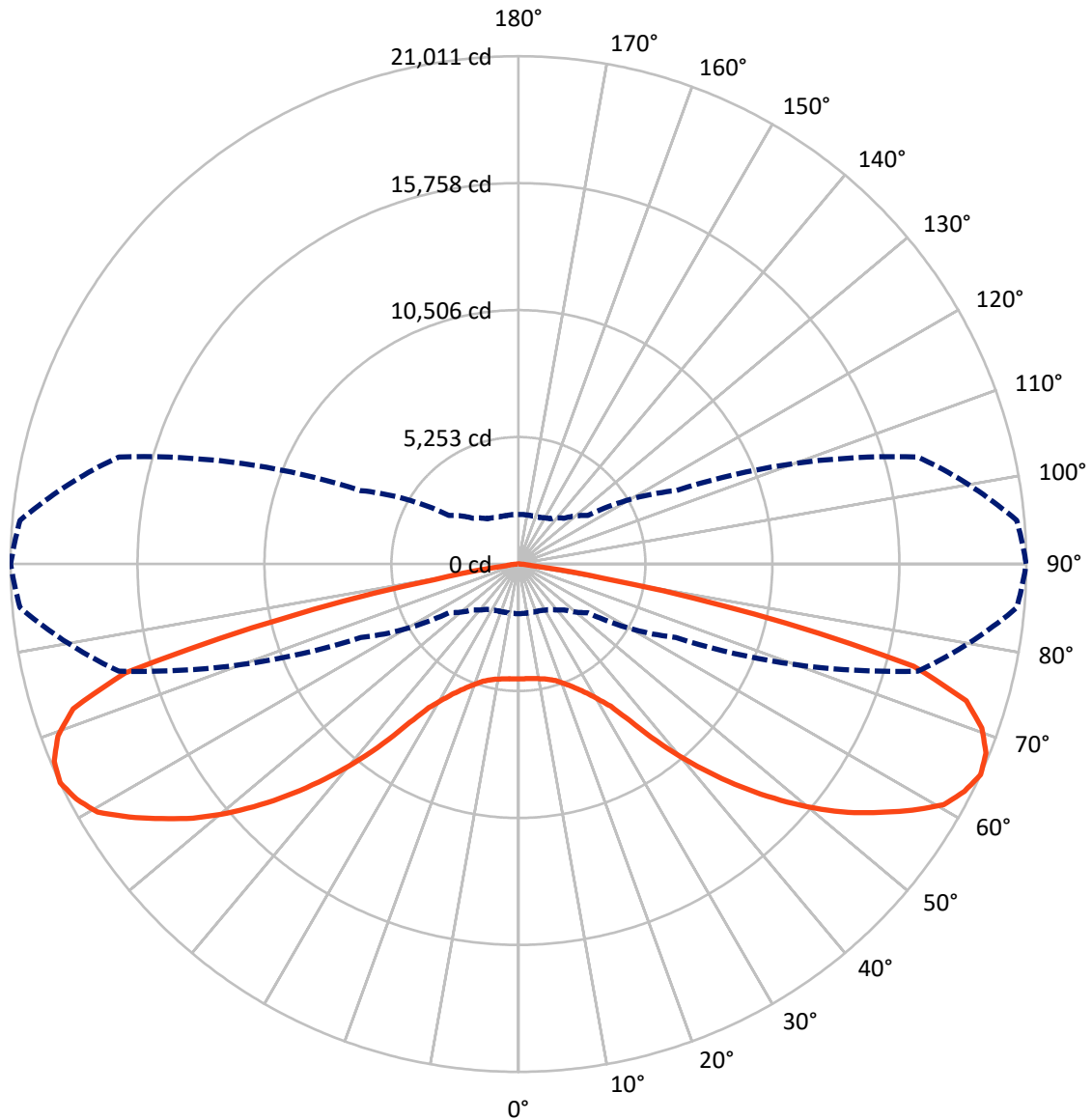
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14459.0	0.0	14459.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14459.0	0.0	14459.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28918.0	0.0	28918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	1.6
10°-20°	1344.5	4.6
20°-30°	2219.7	7.7
30°-40°	3252.4	11.2
40°-50°	4744.2	16.4
50°-60°	6142.2	21.2
60°-70°	6471.2	22.4
70°-80°	3949.6	13.7
80°-90°	341.4	1.2
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°	28918.0	100.0
0°-180°	28918.0	100.0



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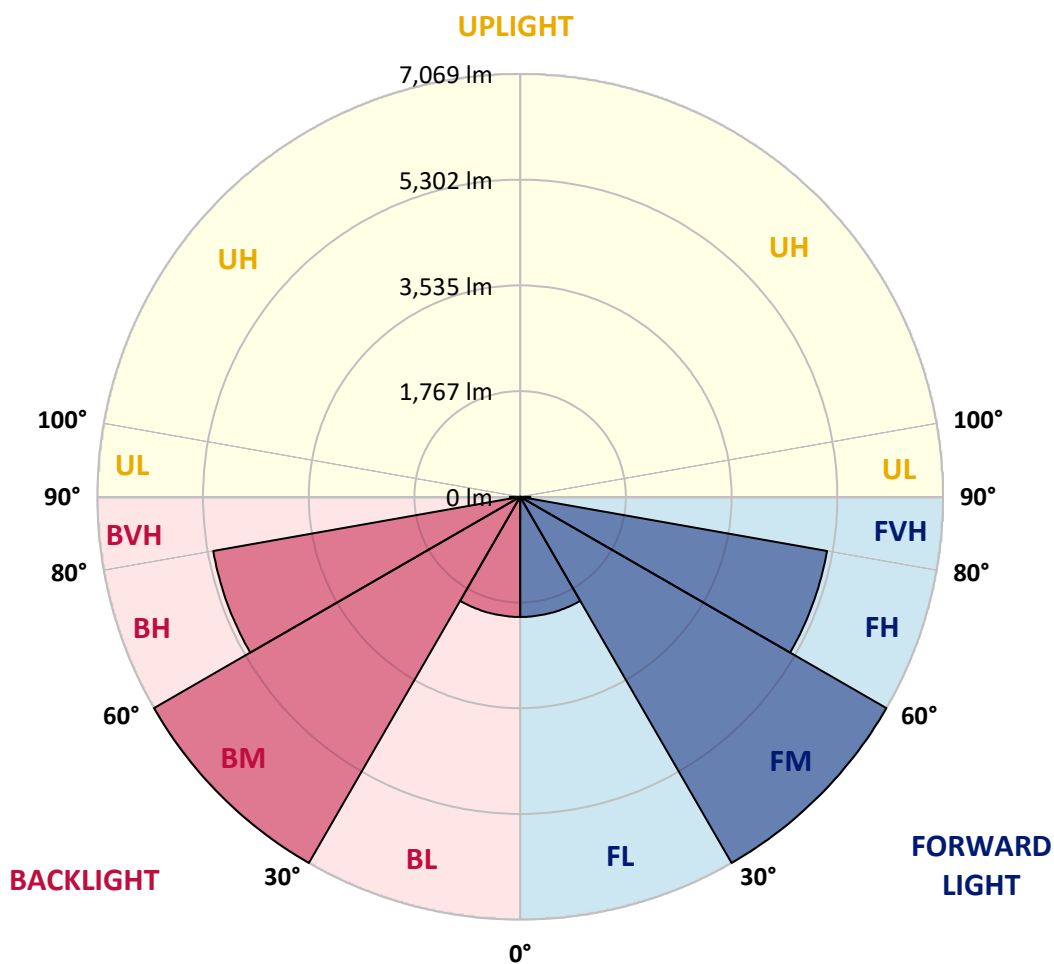
CATALOG NUMBER: VERD-M-CA4-240-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.5	6.9			
FM (30°-60°)	7069.4	24.4			
FH (60°-80°)	5210.4	18.0			G3/7500
FVH (80°-90°)	170.7	0.6			G2/225
BL (0°-30°)	2008.5	6.9	B3/2500		
BM (30°-60°)	7069.4	24.4	B4/8500		
BH (60°-80°)	5210.4	18.0	B5		G5
BVH (80°-90°)	170.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4757.7	4757.7	4757.7	4757.7	4757.7	4757.7	4757.7	4757.7	4757.7	4757.7	4757.7
2.5°	4718.2	4756.4	4762.6	4746.6	4747.8	4745.3	4755.2	4758.9	4763.8	4756.4	4752.7
5°	4710.9	4744.1	4750.3	4742.9	4752.7	4750.3	4755.2	4763.8	4762.6	4760.1	4760.1
7.5°	4671.4	4696.1	4715.8	4710.9	4713.3	4729.3	4746.6	4774.9	4788.5	4788.5	4786.0
10°	4619.7	4645.6	4678.8	4671.4	4687.5	4720.7	4755.2	4784.8	4819.2	4826.6	4826.6
12.5°	4564.3	4600.0	4632.0	4639.4	4676.4	4714.6	4777.4	4822.9	4862.3	4879.6	4878.4
15°	4490.4	4521.2	4559.4	4586.5	4645.6	4728.1	4810.6	4880.8	4937.5	4960.9	4964.6
17.5°	4391.9	4425.1	4465.8	4522.4	4625.9	4744.1	4872.2	4967.0	5053.2	5077.9	5077.9
20°	4262.6	4298.3	4347.5	4435.0	4575.4	4760.1	4931.3	5080.3	5192.4	5250.3	5258.9
22.5°	4061.8	4101.2	4181.3	4332.8	4517.5	4757.7	5001.5	5213.4	5382.1	5457.2	5465.8
25°	3838.9	3889.4	4002.7	4202.2	4446.1	4755.2	5071.7	5363.6	5589.0	5704.8	5729.4
27.5°	3641.8	3689.9	3829.0	4075.4	4379.6	4760.1	5141.9	5536.0	5861.2	6027.4	6048.4
30°	3448.5	3491.6	3646.8	3939.9	4318.0	4766.3	5231.8	5734.3	6170.3	6424.0	6474.5
32.5°	3289.6	3332.7	3483.0	3795.8	4242.9	4779.8	5346.4	5999.1	6600.1	6979.5	7011.5
35°	3150.4	3199.7	3331.5	3650.5	4143.1	4799.5	5490.5	6346.4	7215.9	7915.5	7952.4
37.5°	3029.7	3069.1	3186.1	3496.5	4038.4	4803.2	5658.0	6754.1	8011.5	9044.9	9297.3
40°	2949.7	2976.8	3066.7	3354.9	3900.5	4772.4	5850.1	7209.8	8898.3	10356.5	10644.7
42.5°	2877.0	2901.6	2973.1	3224.3	3756.4	4713.3	6028.7	7677.8	9786.3	11696.5	11968.7
45°	2789.6	2809.3	2881.9	3113.5	3616.0	4622.2	6176.5	8111.3	10705.0	13042.6	13298.8
47.5°	2718.1	2732.9	2794.5	3013.7	3459.6	4475.6	6239.3	8504.2	11690.3	14287.8	14605.5
50°	2668.9	2663.9	2718.1	2910.3	3299.4	4271.2	6186.3	8794.8	12728.6	15534.1	15876.5
52.5°	2583.9	2588.8	2640.5	2803.1	3166.4	4018.7	5979.4	8999.3	13773.0	16672.1	17077.3
55°	2496.4	2503.8	2544.5	2691.0	3026.0	3778.5	5596.4	9027.6	14865.4	17861.9	18137.7
57.5°	2402.8	2406.5	2441.0	2570.3	2869.6	3529.8	5113.6	8847.8	15879.0	18953.1	19214.2
60°	2320.3	2321.6	2345.0	2444.7	2696.0	3261.3	4552.0	8486.9	16695.5	19790.5	20215.4
62.5°	2209.5	2209.5	2224.3	2308.0	2518.6	2984.2	4012.5	7927.8	17141.4	20401.4	20710.5
65°	2050.6	2053.1	2067.9	2122.0	2285.8	2682.4	3506.4	7188.8	17114.3	20700.7	21011.1
67.5°	1746.4	1740.2	1828.9	1917.6	2045.7	2377.0	3010.0	6463.4	16493.6	20572.6	20863.3
70°	1264.9	1256.2	1308.0	1433.6	1742.7	1985.3	2558.0	5857.5	14710.2	20093.5	20334.9
72.5°	1038.2	1043.2	1045.6	1029.6	1166.3	1607.2	2136.8	5151.8	12137.4	18624.2	19375.5
75°	821.5	809.2	822.7	835.0	872.0	942.2	1729.2	4289.7	9850.3	15616.7	16884.0
77.5°	518.5	511.1	509.9	517.3	565.3	597.3	1059.2	3144.3	6853.8	9878.6	9962.4
80°	360.9	359.6	360.9	370.7	386.7	394.1	587.5	1723.0	3450.9	3597.5	3533.5
82.5°	256.2	247.6	240.2	258.6	250.0	242.6	353.5	789.5	931.1	634.3	514.8
85°	126.9	129.3	109.6	139.2	130.5	126.9	137.9	150.3	139.2	259.9	294.4
87.5°	35.7	34.5	38.2	44.3	43.1	49.3	44.3	48.0	56.7	98.5	97.3
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)