

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: P510099

Luminaire Tested: **VERD-M-CA4-200-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510099
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-CA4-200-760-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 910mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30423 lumens
Efficiency: N/A
Efficacy: 150.8 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

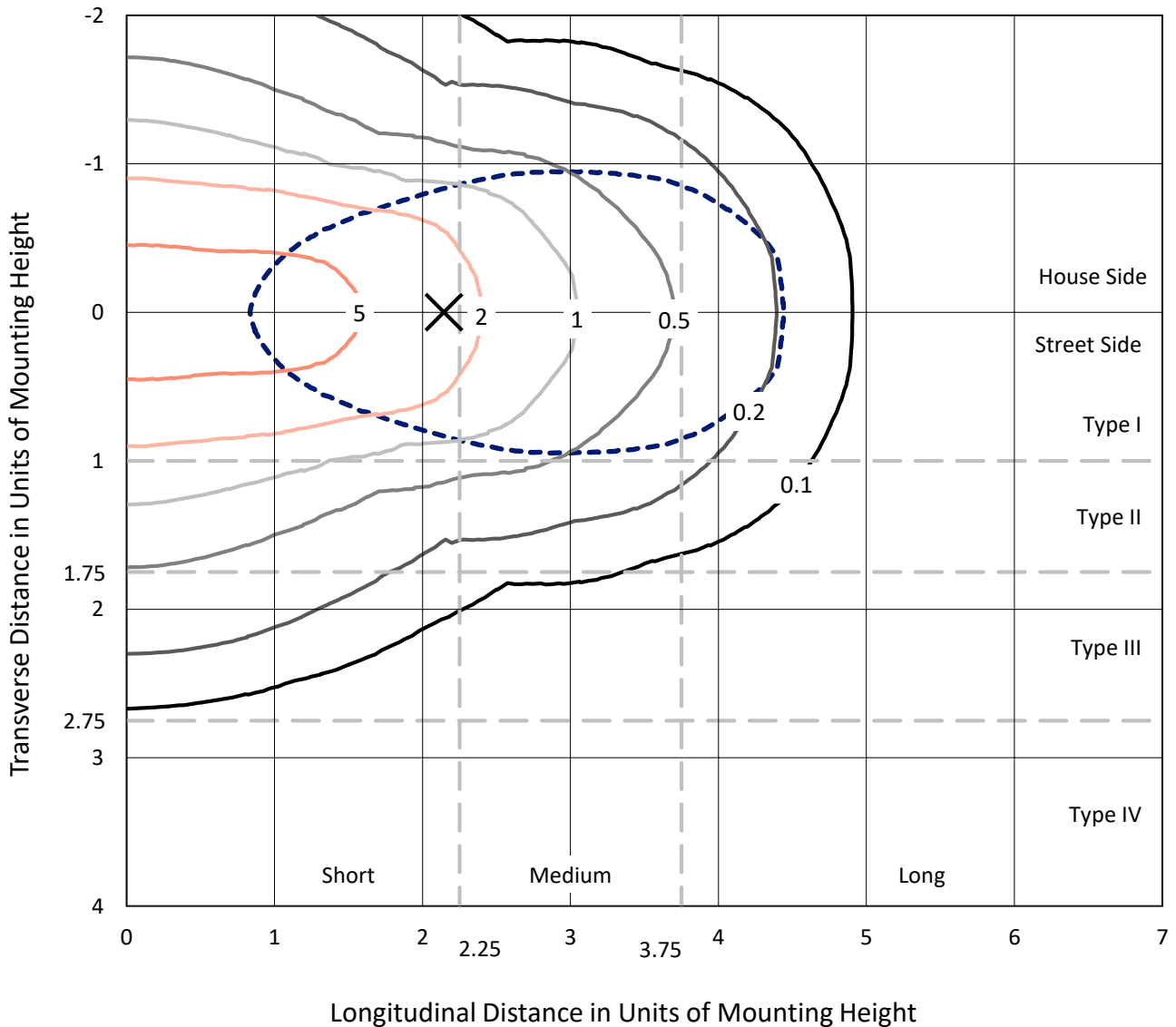
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

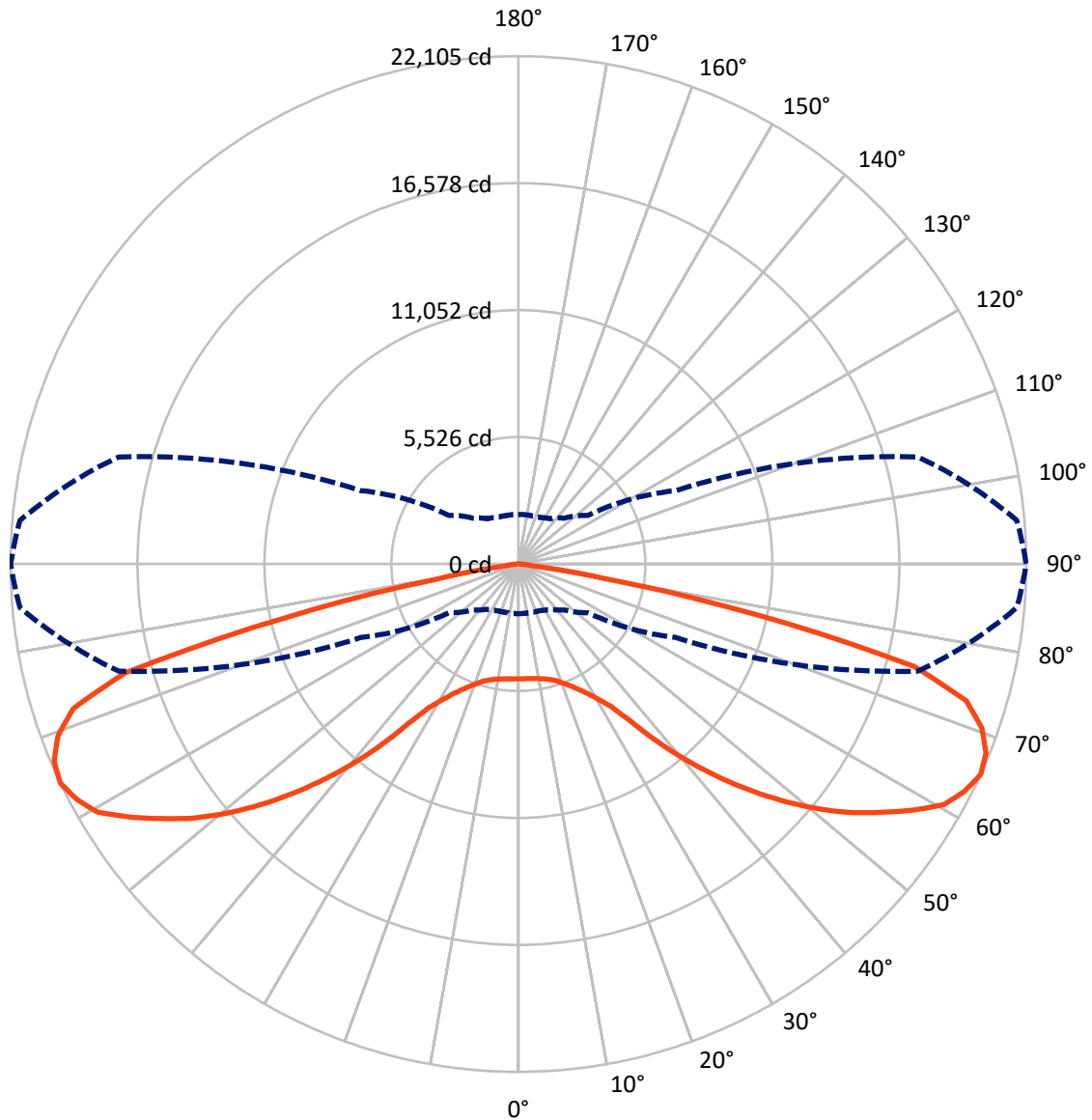
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	15211.5	0.0	15211.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15211.5	0.0	15211.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30423.0	0.0	30423.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.4	1.6
10°-20°	1414.4	4.6
20°-30°	2335.2	7.7
30°-40°	3421.7	11.2
40°-50°	4991.1	16.4
50°-60°	6461.9	21.2
60°-70°	6808.0	22.4
70°-80°	4155.2	13.7
80°-90°	359.2	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°	30423.0	100.0
0°-180°	30423.0	100.0



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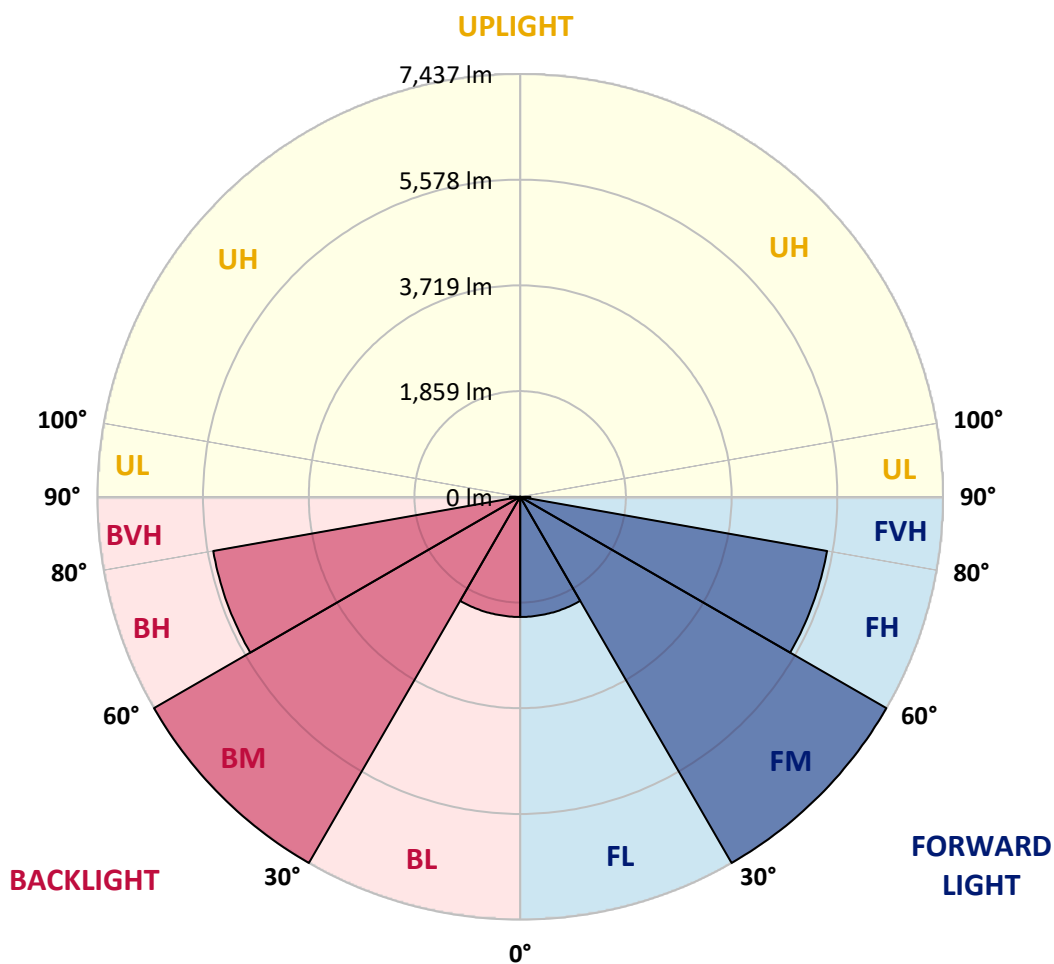
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2113.0	6.9			
FM	(30°-60°)	7437.3	24.4			
FH	(60°-80°)	5481.6	18.0			G3/7500
FVH	(80°-90°)	179.6	0.6			G2/225
BL	(0°-30°)	2113.0	6.9	B3/2500		
BM	(30°-60°)	7437.3	24.4	B4/8500		
BH	(60°-80°)	5481.6	18.0	B5		G5
BVH	(80°-90°)	179.6	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°	5005.3	5005.3	5005.3	5005.3	5005.3	5005.3	5005.3	5005.3	5005.3	5005.3	5005.3
2.5°	4963.8	5004.0	5010.4	4993.6	4994.9	4992.3	5002.7	5006.6	5011.7	5004.0	5000.1
5°	4956.0	4991.0	4997.5	4989.7	5000.1	4997.5	5002.7	5011.7	5010.4	5007.9	5007.9
7.5°	4914.6	4940.5	4961.2	4956.0	4958.6	4975.5	4993.6	5023.4	5037.7	5037.7	5035.1
10°	4860.1	4887.4	4922.3	4914.6	4931.4	4966.4	5002.7	5033.8	5070.1	5077.8	5077.8
12.5°	4801.8	4839.4	4873.1	4880.9	4919.8	4959.9	5026.0	5073.9	5115.4	5133.5	5132.2
15°	4724.1	4756.5	4796.7	4825.2	4887.4	4974.2	5061.0	5134.8	5194.4	5219.1	5222.9
17.5°	4620.4	4655.4	4698.2	4757.8	4866.6	4991.0	5125.8	5225.5	5316.2	5342.1	5342.1
20°	4484.4	4522.0	4573.8	4665.8	4813.5	5007.9	5188.0	5344.7	5462.6	5523.5	5532.6
22.5°	4273.2	4314.7	4398.9	4558.3	4752.6	5005.3	5261.8	5484.7	5662.2	5741.2	5750.3
25°	4038.7	4091.8	4211.0	4420.9	4677.5	5002.7	5335.7	5642.7	5879.9	6001.7	6027.6
27.5°	3831.4	3881.9	4028.3	4287.5	4607.5	5007.9	5409.5	5824.1	6166.2	6341.1	6363.2
30°	3627.9	3673.3	3836.6	4144.9	4542.7	5014.3	5504.1	6032.8	6491.4	6758.3	6811.5
32.5°	3460.8	3506.1	3664.2	3993.3	4463.7	5028.6	5624.6	6311.3	6943.6	7342.7	7376.4
35°	3314.4	3366.2	3504.9	3840.4	4358.7	5049.3	5776.2	6676.7	7591.5	8327.4	8366.3
37.5°	3187.4	3228.9	3352.0	3678.5	4248.6	5053.2	5952.4	7105.6	8428.5	9515.6	9781.2
40°	3103.2	3131.7	3226.3	3529.5	4103.5	5020.8	6154.5	7585.0	9361.4	10895.5	11198.7
42.5°	3026.7	3052.7	3127.8	3392.1	3951.9	4958.6	6342.4	8077.4	10295.6	12305.2	12591.6
45°	2934.7	2955.5	3031.9	3275.5	3804.2	4862.7	6497.9	8533.4	11262.2	13721.4	13990.9
47.5°	2859.6	2875.1	2939.9	3170.6	3639.6	4708.6	6564.0	8946.8	12298.7	15031.3	15365.6
50°	2807.8	2802.6	2859.6	3061.7	3471.2	4493.5	6508.3	9252.6	13391.0	16342.6	16702.8
52.5°	2718.4	2723.5	2778.0	2949.0	3331.2	4227.9	6290.6	9467.6	14489.7	17539.8	17966.1
55°	2626.4	2634.1	2676.9	2831.1	3183.5	3975.2	5887.6	9497.4	15639.0	18791.5	19081.7
57.5°	2527.9	2531.8	2568.1	2704.1	3019.0	3713.5	5379.7	9308.3	16705.4	19939.4	20214.1
60°	2441.1	2442.4	2467.0	2572.0	2836.3	3431.0	4788.9	8928.6	17564.4	20820.5	21267.5
62.5°	2324.5	2324.5	2340.0	2428.1	2649.7	3139.5	4221.4	8340.4	18033.5	21463.2	21788.4
65°	2157.3	2159.9	2175.5	2232.5	2404.8	2822.0	3688.8	7563.0	18005.0	21778.0	22104.5
67.5°	1837.3	1830.8	1924.1	2017.4	2152.1	2500.7	3166.7	6799.8	17351.9	21643.3	21949.1
70°	1330.7	1321.6	1376.0	1508.2	1833.4	2088.7	2691.2	6162.3	15475.8	21139.3	21393.2
72.5°	1092.3	1097.5	1100.0	1083.2	1227.0	1690.9	2248.0	5419.9	12769.1	19593.5	20383.9
75°	864.2	851.3	865.5	878.5	917.4	991.2	1819.2	4512.9	10363.0	16429.4	17762.7
77.5°	545.5	537.7	536.4	544.2	594.7	628.4	1114.3	3307.9	7210.5	10392.8	10480.9
80°	379.6	378.3	379.6	390.0	406.8	414.6	618.0	1812.7	3630.5	3784.7	3717.3
82.5°	269.5	260.4	252.7	272.1	263.0	255.3	371.9	830.5	979.5	667.3	541.6
85°	133.5	136.0	115.3	146.4	137.3	133.5	145.1	158.1	146.4	273.4	309.7
87.5°	37.6	36.3	40.2	46.6	45.3	51.8	46.6	50.5	59.6	103.7	102.4
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)