

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: P510091

Luminaire Tested: **VERD-M-CA4-200-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510091
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-CA4-200-750-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31082 lumens
Efficiency: N/A
Efficacy: 154.0 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

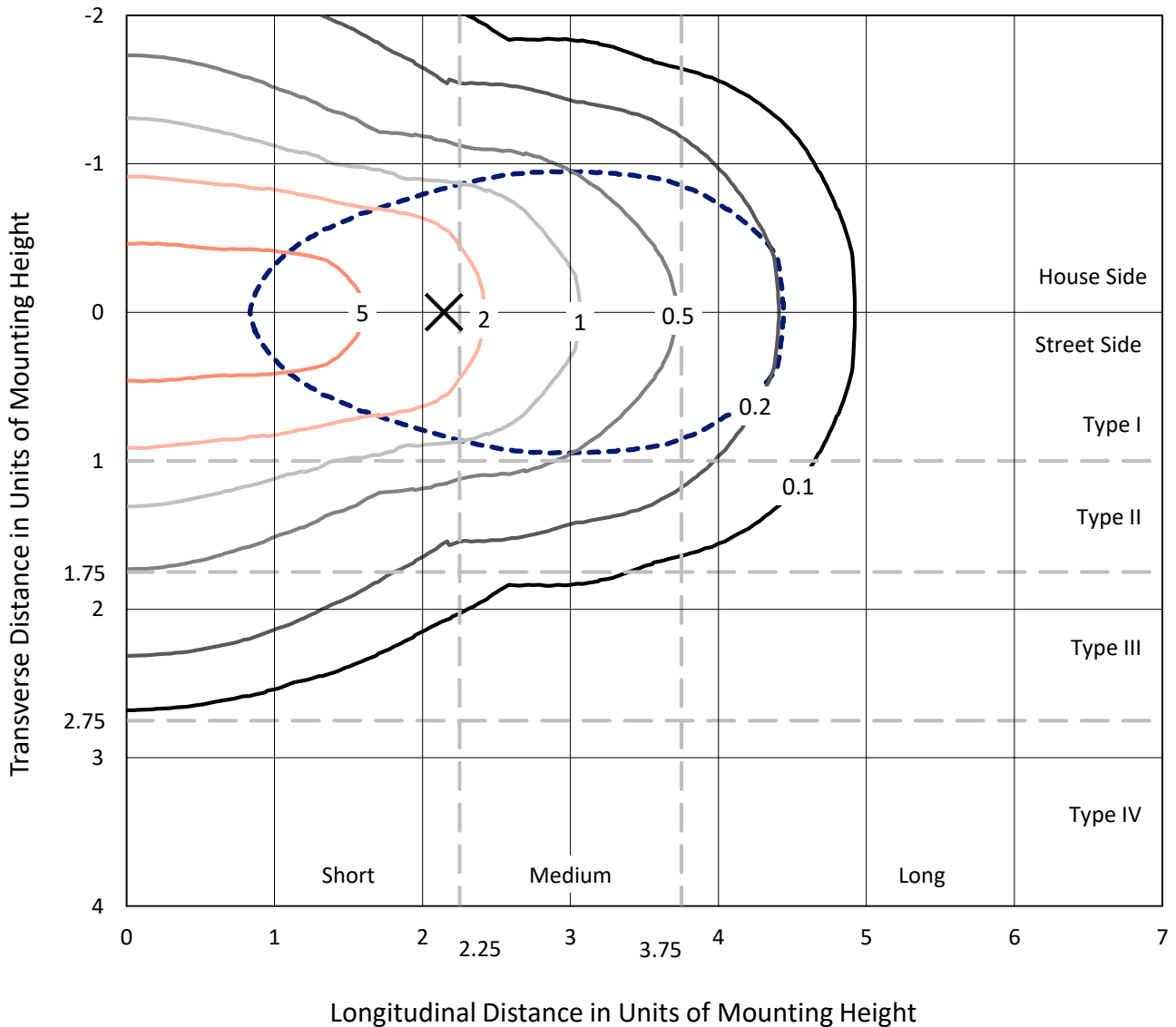
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

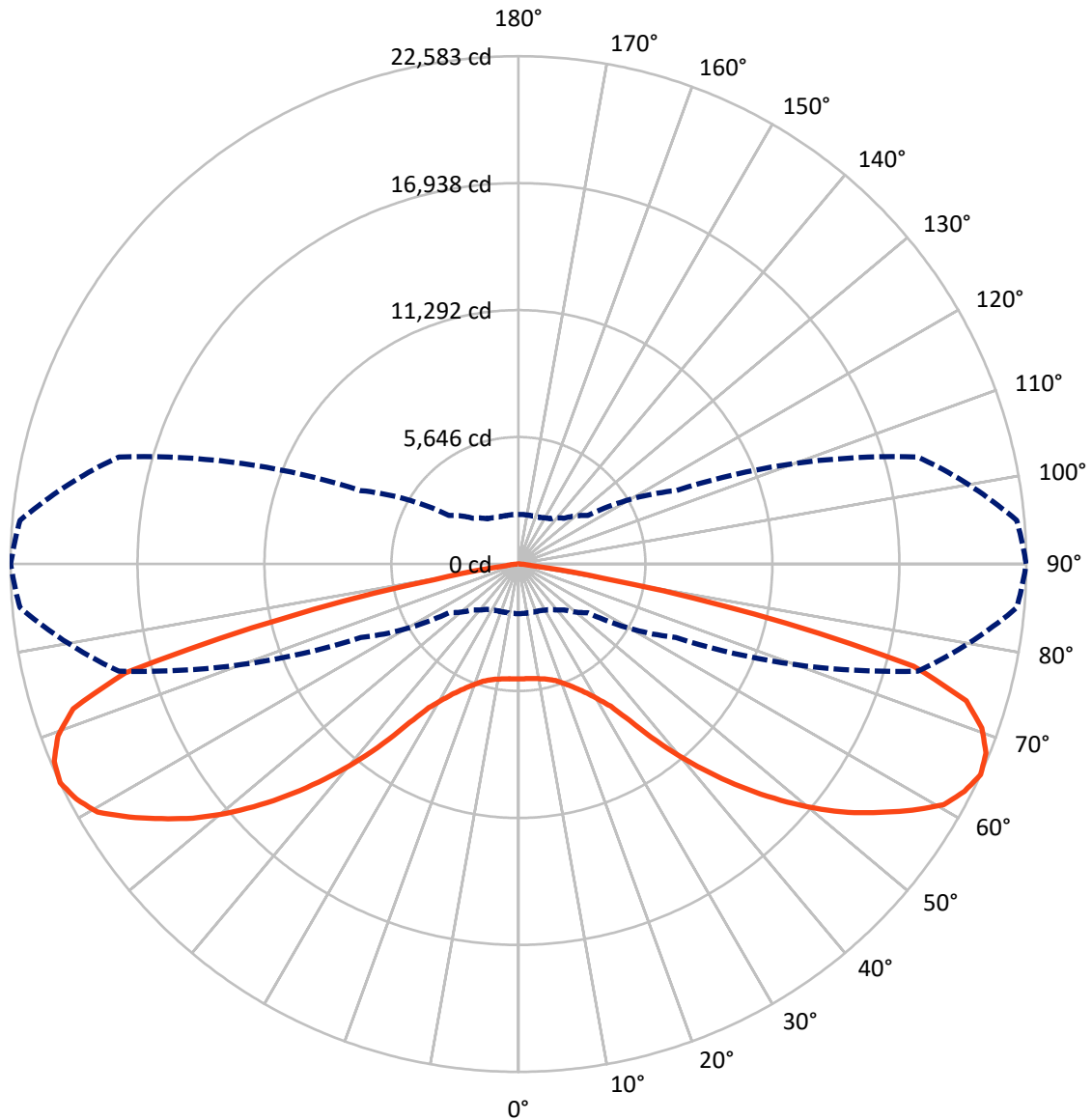
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type I - Short - N/A

REPORT NUMBER: P510091
CATALOG NUMBER: VERD-M-CA4-200-750-U-T1

Luminous Intensity Polar Plot



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

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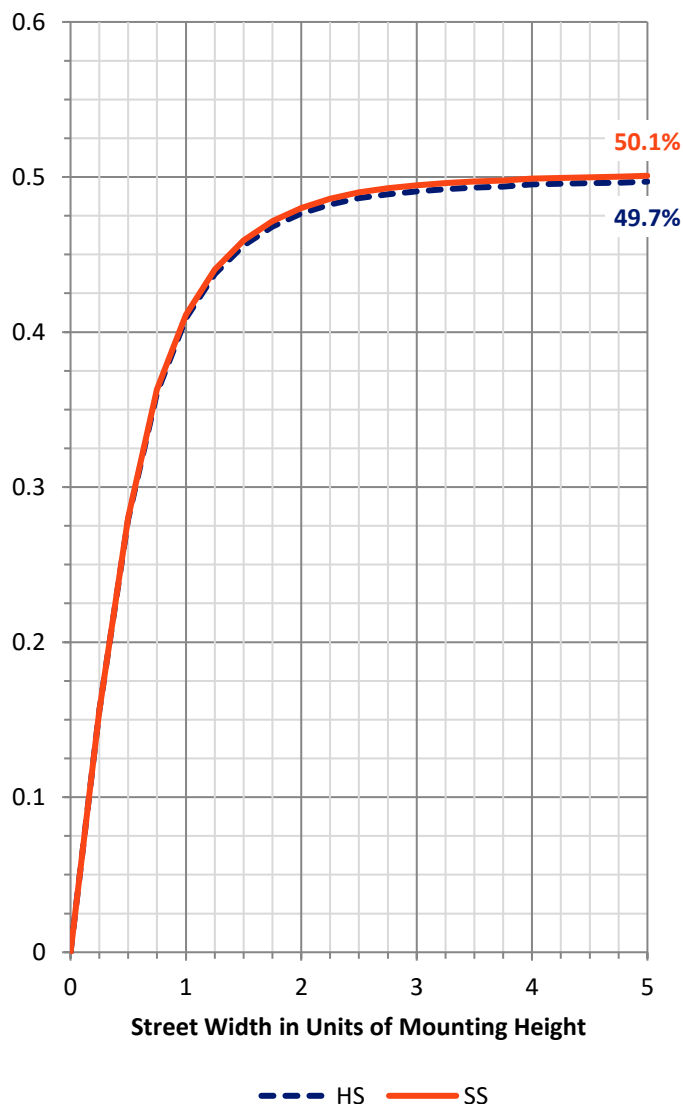
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15541.0	0.0	15541.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15541.0	0.0	15541.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31082.0	0.0	31082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.7	1.6
10°-20°	1445.1	4.6
20°-30°	2385.8	7.7
30°-40°	3495.8	11.2
40°-50°	5099.2	16.4
50°-60°	6601.8	21.2
60°-70°	6955.5	22.4
70°-80°	4245.2	13.7
80°-90°	367.0	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°	31082.0	100.0
0°-180°	31082.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510091

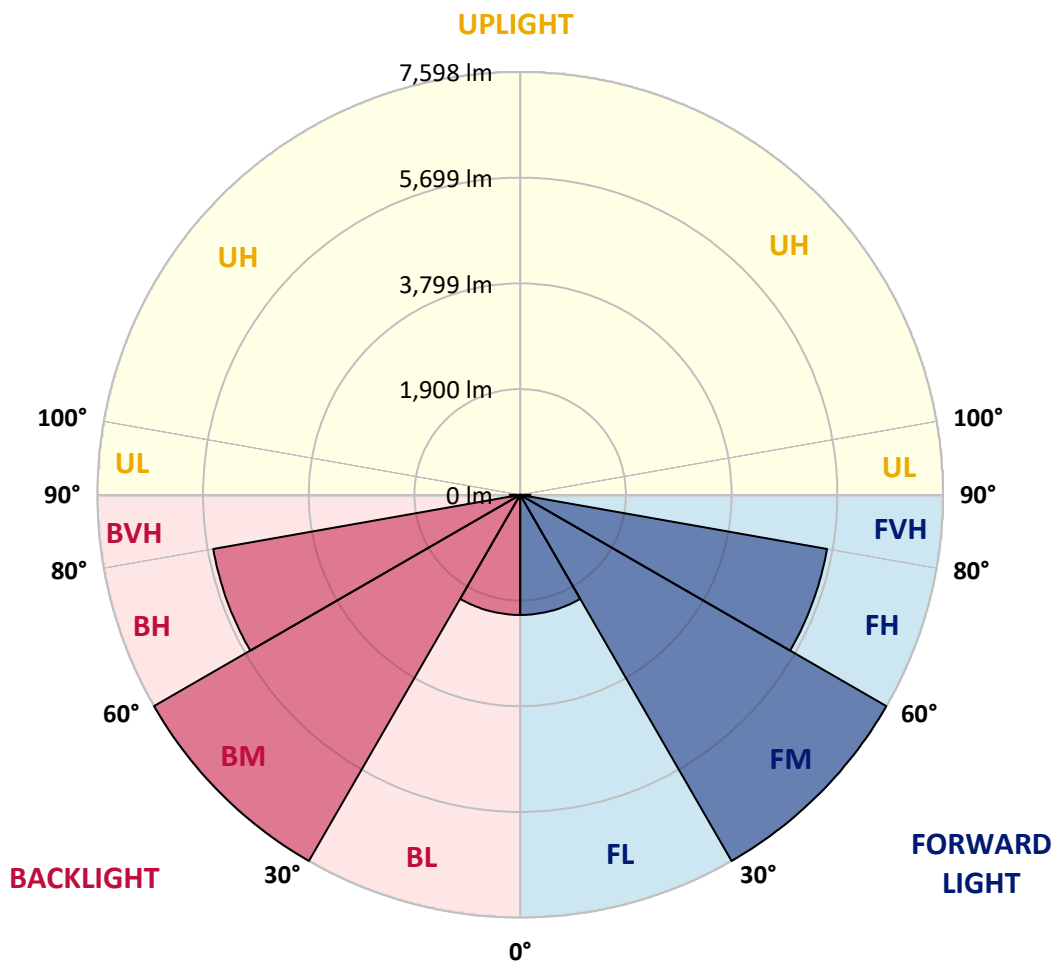
CATALOG NUMBER: VERD-M-CA4-200-750-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.8	6.9			
FM	(30°-60°)	7598.4	24.4			
FH	(60°-80°)	5600.3	18.0			G3/7500
FVH	(80°-90°)	183.5	0.6			G2/225
BL	(0°-30°)	2158.8	6.9	B3/2500		
BM	(30°-60°)	7598.4	24.4	B4/8500		
BH	(60°-80°)	5600.3	18.0	B5		G5
BVH	(80°-90°)	183.5	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°	5113.7	5113.7	5113.7	5113.7	5113.7	5113.7	5113.7	5113.7	5113.7	5113.7	5113.7
2.5°	5071.3	5112.4	5119.0	5101.8	5103.1	5100.4	5111.0	5115.0	5120.3	5112.4	5108.4
5°	5063.4	5099.1	5105.7	5097.8	5108.4	5105.7	5111.0	5120.3	5119.0	5116.3	5116.3
7.5°	5021.0	5047.5	5068.7	5063.4	5066.0	5083.2	5101.8	5132.2	5146.8	5146.8	5144.1
10°	4965.4	4993.2	5029.0	5021.0	5038.2	5074.0	5111.0	5142.8	5179.9	5187.8	5187.8
12.5°	4905.9	4944.2	4978.7	4986.6	5026.3	5067.4	5134.9	5183.8	5226.2	5244.7	5243.4
15°	4826.4	4859.5	4900.6	4929.7	4993.2	5081.9	5170.6	5246.1	5307.0	5332.1	5336.1
17.5°	4720.5	4756.3	4800.0	4860.8	4972.0	5099.1	5236.8	5338.7	5431.4	5457.9	5457.9
20°	4581.5	4619.9	4672.9	4766.9	4917.8	5116.3	5300.3	5460.5	5581.0	5643.2	5652.5
22.5°	4365.8	4408.1	4494.2	4657.0	4855.6	5113.7	5375.8	5603.5	5784.8	5865.6	5874.8
25°	4126.2	4180.4	4302.2	4516.7	4778.8	5111.0	5451.2	5765.0	6007.2	6131.7	6158.1
27.5°	3914.4	3966.0	4115.6	4380.3	4707.3	5116.3	5526.7	5950.3	6299.8	6478.5	6501.0
30°	3706.5	3752.9	3919.7	4234.7	4641.1	5123.0	5623.3	6163.4	6632.0	6904.7	6959.0
32.5°	3535.8	3582.1	3743.6	4079.8	4560.4	5137.5	5746.4	6448.0	7094.0	7501.8	7536.2
35°	3386.2	3439.1	3580.8	3923.6	4453.1	5158.7	5901.3	6821.3	7755.9	8507.8	8547.5
37.5°	3256.5	3298.8	3424.6	3758.2	4340.6	5162.7	6081.4	7259.5	8611.1	9721.7	9993.1
40°	3170.4	3199.5	3296.2	3605.9	4192.4	5129.6	6287.9	7749.3	9564.2	11131.5	11441.3
42.5°	3092.3	3118.8	3195.6	3465.6	4037.5	5066.0	6479.8	8252.3	10518.6	12571.8	12864.3
45°	2998.3	3019.5	3097.6	3346.5	3886.6	4968.1	6638.7	8718.3	11506.1	14018.6	14294.0
47.5°	2921.5	2937.4	3003.6	3239.2	3718.4	4810.5	6706.2	9140.6	12565.1	15356.9	15698.5
50°	2868.6	2863.3	2921.5	3128.0	3546.4	4590.8	6649.2	9453.0	13681.1	16696.6	17064.6
52.5°	2777.2	2782.5	2838.1	3012.9	3403.4	4319.4	6426.9	9672.7	14803.6	17919.7	18355.3
55°	2683.3	2691.2	2734.9	2892.4	3252.5	4061.3	6015.2	9703.2	15977.8	19198.5	19495.0
57.5°	2582.7	2586.6	2623.7	2762.7	3084.4	3793.9	5496.3	9509.9	17067.2	20371.4	20652.0
60°	2494.0	2495.3	2520.4	2627.7	2897.7	3505.3	4892.6	9122.0	17944.9	21271.5	21728.2
62.5°	2374.8	2374.8	2390.7	2480.7	2707.1	3207.5	4312.8	8521.0	18424.1	21928.1	22260.4
65°	2204.1	2206.7	2222.6	2280.8	2456.9	2883.2	3768.7	7726.8	18395.0	22249.8	22583.4
67.5°	1877.1	1870.5	1965.8	2061.1	2198.8	2554.9	3235.3	6947.1	17727.8	22112.1	22424.5
70°	1359.5	1350.2	1405.8	1540.9	1873.1	2133.9	2749.5	6295.8	15811.0	21597.2	21856.6
72.5°	1115.9	1121.2	1123.9	1106.7	1253.6	1727.5	2296.7	5537.3	13045.7	20017.9	20825.4
75°	882.9	869.7	884.3	897.5	937.2	1012.7	1858.6	4610.7	10587.4	16785.3	18147.4
77.5°	557.3	549.4	548.0	556.0	607.6	642.0	1138.4	3379.6	7366.7	10617.9	10707.9
80°	387.9	386.5	387.9	398.5	415.7	423.6	631.4	1851.9	3709.2	3866.7	3797.9
82.5°	275.3	266.1	258.1	278.0	268.7	260.8	379.9	848.5	1000.8	681.7	553.3
85°	136.3	139.0	117.8	149.6	140.3	136.3	148.3	161.5	149.6	279.3	316.4
87.5°	38.4	37.1	41.0	47.7	46.3	53.0	47.7	51.6	60.9	105.9	104.6
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)