

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: P510179

Luminaire Tested: **VERD-M-CA4-220-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510179
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-CA4-220-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1000mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33103 lumens
Efficiency: N/A
Efficacy: 148.8 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

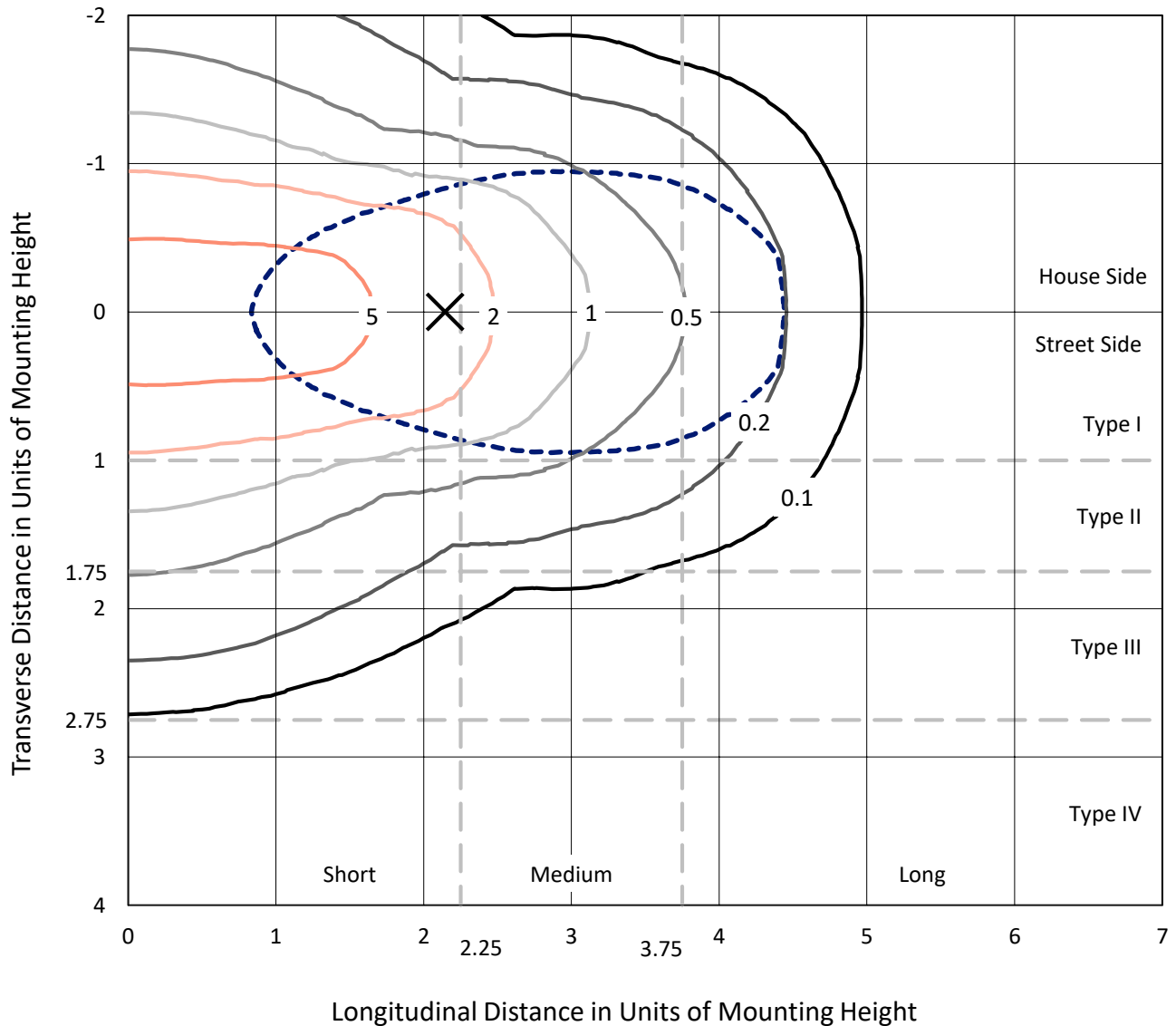
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

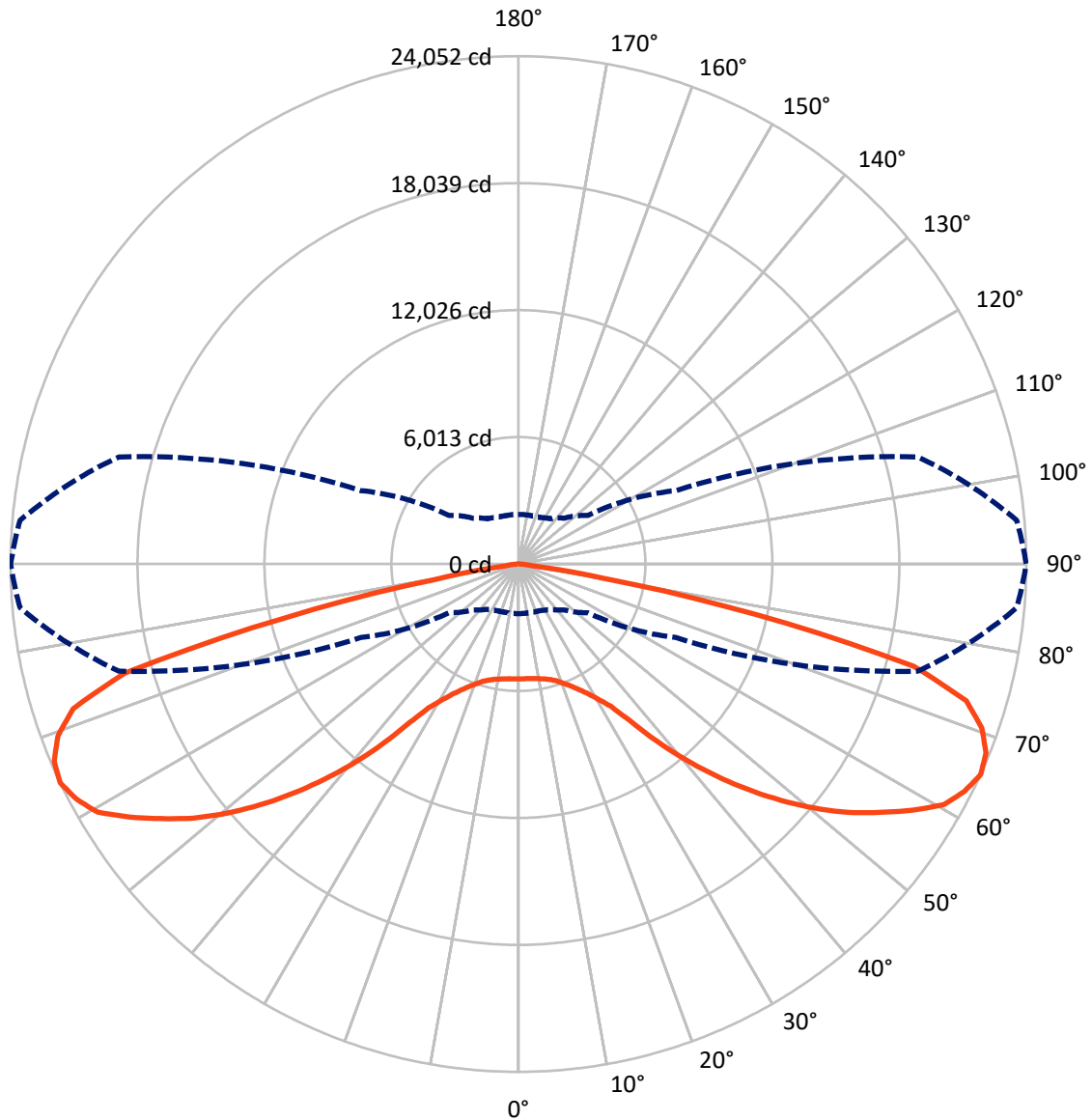
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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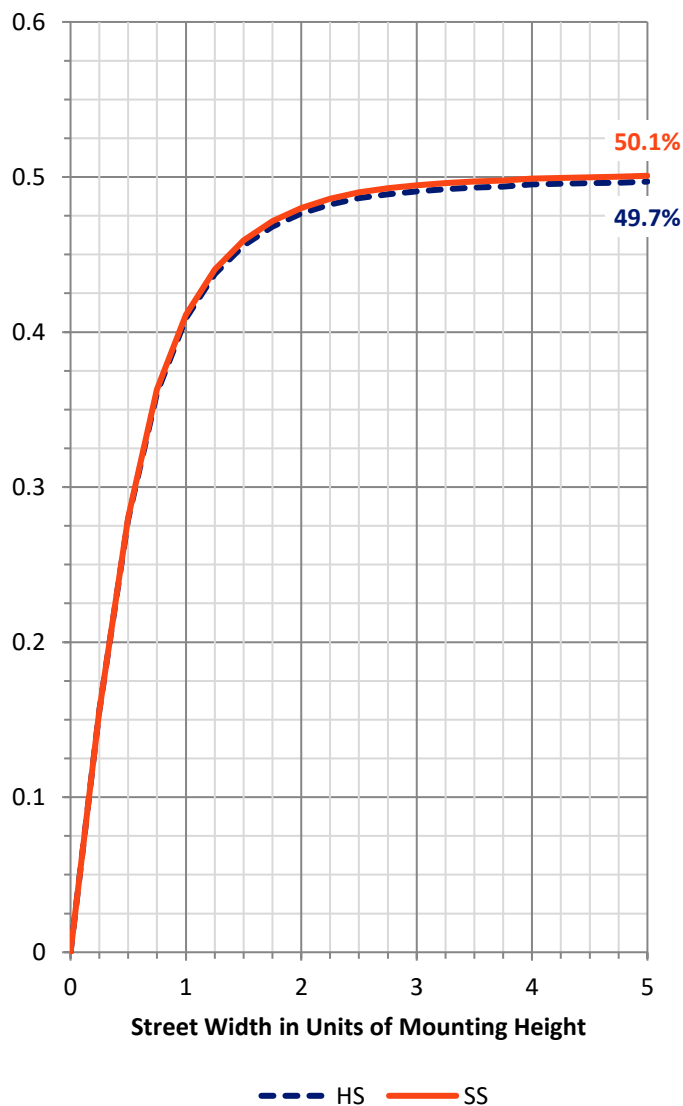
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16551.5	0.0	16551.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16551.5	0.0	16551.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33103.0	0.0	33103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	1.6
10°-20°	1539.0	4.6
20°-30°	2540.9	7.7
30°-40°	3723.1	11.2
40°-50°	5430.8	16.4
50°-60°	7031.1	21.2
60°-70°	7407.7	22.4
70°-80°	4521.2	13.7
80°-90°	390.8	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°	33103.0	100.0
0°-180°	33103.0	100.0

Coefficient of Utilization



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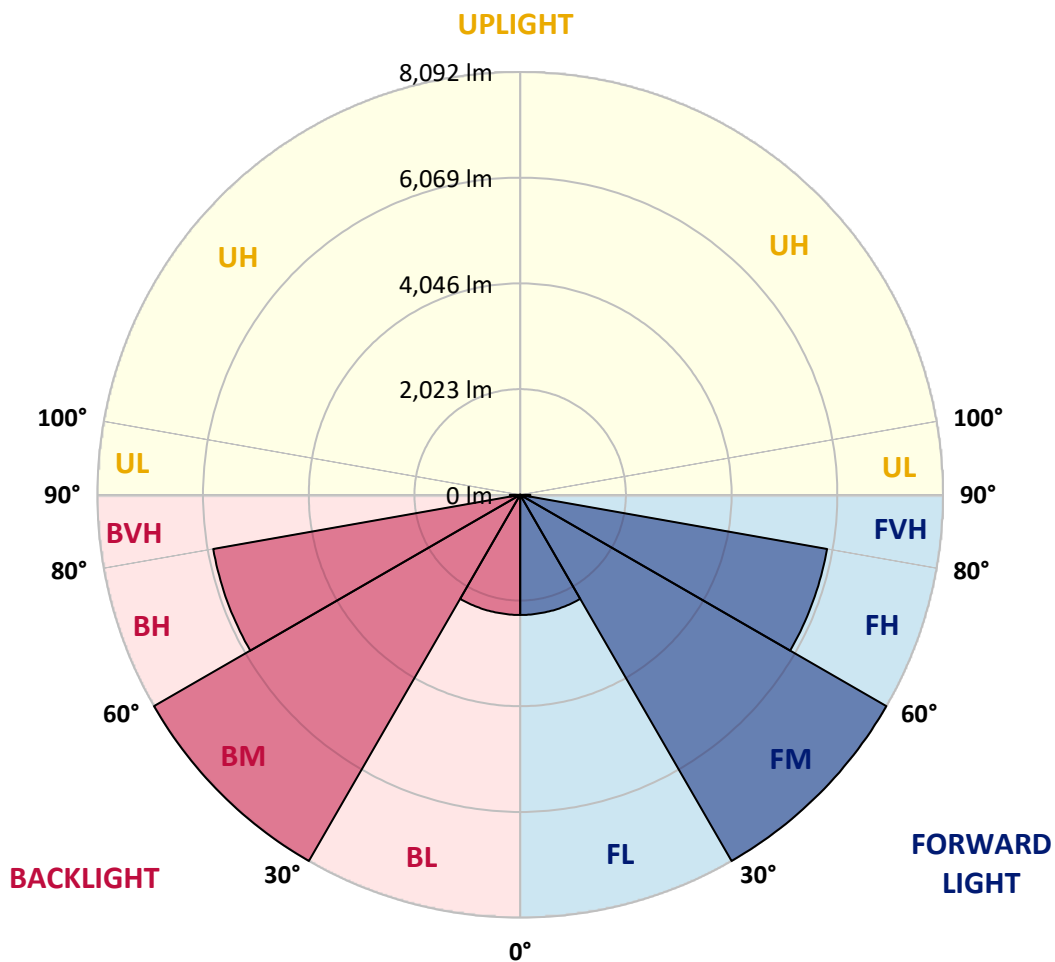
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2299.1	6.9			
FM (30°-60°)	8092.5	24.4			
FH (60°-80°)	5964.5	18.0			G3/7500
FVH (80°-90°)	195.4	0.6			G2/225
BL (0°-30°)	2299.1	6.9	B3/2500		
BM (30°-60°)	8092.5	24.4	B4/8500		
BH (60°-80°)	5964.5	18.0	B5		G5
BVH (80°-90°)	195.4	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°	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2	5446.2
2.5°	5401.1	5444.8	5451.8	5433.5	5434.9	5432.1	5443.4	5447.6	5453.2	5444.8	5440.5
5°	5392.6	5430.7	5437.7	5429.3	5440.5	5437.7	5443.4	5453.2	5451.8	5449.0	5449.0
7.5°	5347.5	5375.7	5398.3	5392.6	5395.4	5413.8	5433.5	5465.9	5481.4	5481.4	5478.6
10°	5288.3	5317.9	5356.0	5347.5	5365.8	5403.9	5443.4	5477.2	5516.7	5525.1	5525.1
12.5°	5224.8	5265.7	5302.4	5310.8	5353.1	5396.8	5468.7	5520.9	5566.0	5585.8	5584.4
15°	5140.3	5175.5	5219.2	5250.2	5317.9	5412.4	5506.8	5587.2	5652.0	5678.8	5683.0
17.5°	5027.5	5065.5	5112.1	5176.9	5295.3	5430.7	5577.3	5685.9	5784.5	5812.7	5812.7
20°	4879.4	4920.3	4976.7	5076.8	5237.5	5449.0	5645.0	5815.6	5943.9	6010.1	6020.0
22.5°	4649.6	4694.7	4786.4	4959.8	5171.3	5446.2	5725.3	5967.8	6161.0	6247.0	6256.8
25°	4394.5	4452.3	4582.0	4810.4	5089.5	5443.4	5805.7	6139.8	6397.8	6530.3	6558.5
27.5°	4168.9	4223.9	4383.2	4665.1	5013.4	5449.0	5886.1	6337.2	6709.4	6899.7	6923.7
30°	3947.5	3996.9	4174.5	4510.1	4942.9	5456.1	5989.0	6564.2	7063.3	7353.7	7411.5
32.5°	3765.7	3815.0	3987.0	4345.1	4856.9	5471.6	6120.1	6867.3	7555.3	7989.5	8026.2
35°	3606.4	3662.7	3813.6	4178.7	4742.7	5494.1	6285.0	7264.9	8260.2	9061.0	9103.3
37.5°	3468.2	3513.3	3647.2	4002.5	4622.8	5498.4	6476.8	7731.5	9171.0	10353.8	10642.8
40°	3376.6	3407.6	3510.5	3840.4	4464.9	5463.1	6696.7	8253.2	10186.0	11855.3	12185.2
42.5°	3293.4	3321.6	3403.3	3690.9	4300.0	5395.4	6901.1	8788.9	11202.5	13389.2	13700.8
45°	3193.3	3215.8	3299.0	3564.1	4139.3	5291.1	7070.3	9285.2	12254.3	14930.1	15223.4
47.5°	3111.5	3128.4	3198.9	3449.9	3960.2	5123.3	7142.2	9734.9	13382.1	16355.5	16719.2
50°	3055.1	3049.5	3111.5	3331.4	3776.9	4889.3	7081.6	10067.6	14570.6	17782.2	18174.2
52.5°	2957.8	2963.5	3022.7	3208.8	3624.7	4600.3	6844.7	10301.7	15766.2	19084.9	19548.8
55°	2857.7	2866.2	2912.7	3080.5	3464.0	4325.4	6406.3	10334.1	17016.7	20446.8	20762.6
57.5°	2750.6	2754.8	2794.3	2942.3	3284.9	4040.6	5853.6	10128.2	18177.0	21695.9	21994.8
60°	2656.1	2657.5	2684.3	2798.5	3086.1	3733.2	5210.7	9715.2	19111.7	22654.6	23141.0
62.5°	2529.2	2529.2	2546.2	2642.0	2883.1	3416.0	4593.2	9075.1	19622.1	23353.9	23707.8
65°	2347.4	2350.2	2367.1	2429.1	2616.7	3070.6	4013.8	8229.2	19591.0	23696.5	24051.8
67.5°	1999.1	1992.1	2093.6	2195.1	2341.7	2721.0	3445.6	7398.8	18880.5	23549.9	23882.6
70°	1447.9	1438.0	1497.2	1641.0	1994.9	2272.7	2928.2	6705.2	16839.1	23001.4	23277.8
72.5°	1188.5	1194.1	1196.9	1178.6	1335.1	1839.8	2446.1	5897.3	13893.9	21319.5	22179.5
75°	940.4	926.3	941.8	955.9	998.2	1078.5	1979.4	4910.5	11275.8	17876.7	19327.4
77.5°	593.5	585.1	583.7	592.1	647.1	683.8	1212.5	3599.3	7845.7	11308.3	11404.1
80°	413.1	411.7	413.1	424.4	442.7	451.1	672.5	1972.4	3950.4	4118.1	4044.8
82.5°	293.2	283.4	274.9	296.1	286.2	277.7	404.6	903.7	1065.8	726.1	589.3
85°	145.2	148.0	125.5	159.3	149.4	145.2	157.9	172.0	159.3	297.5	337.0
87.5°	40.9	39.5	43.7	50.8	49.3	56.4	50.8	55.0	64.9	112.8	111.4
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)