

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: P510307

Luminaire Tested: **VERD-M-CA4-250-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510307
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-CA4-250-727-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1130mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31055 lumens
Efficiency: N/A
Efficacy: 123.4 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

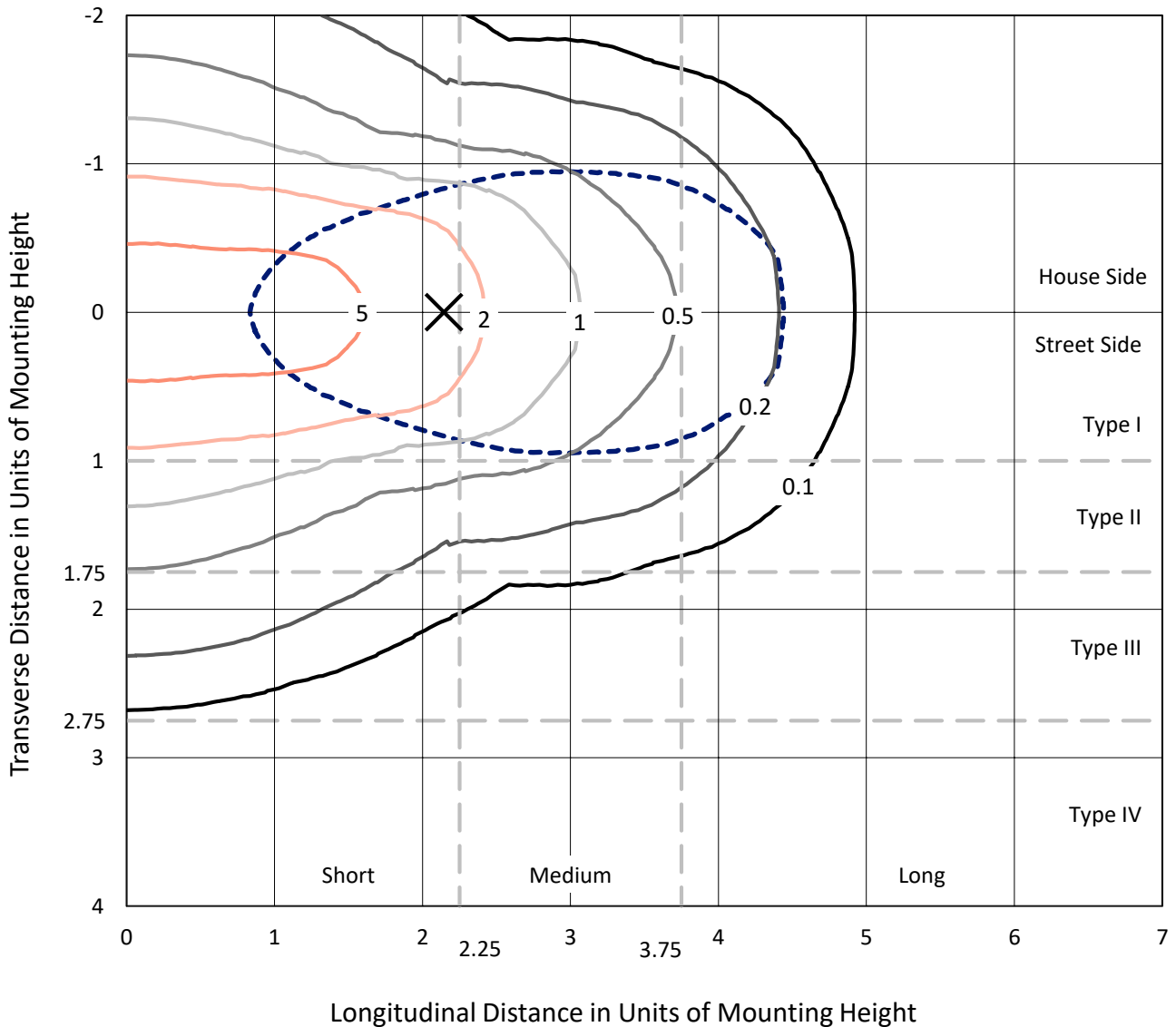
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

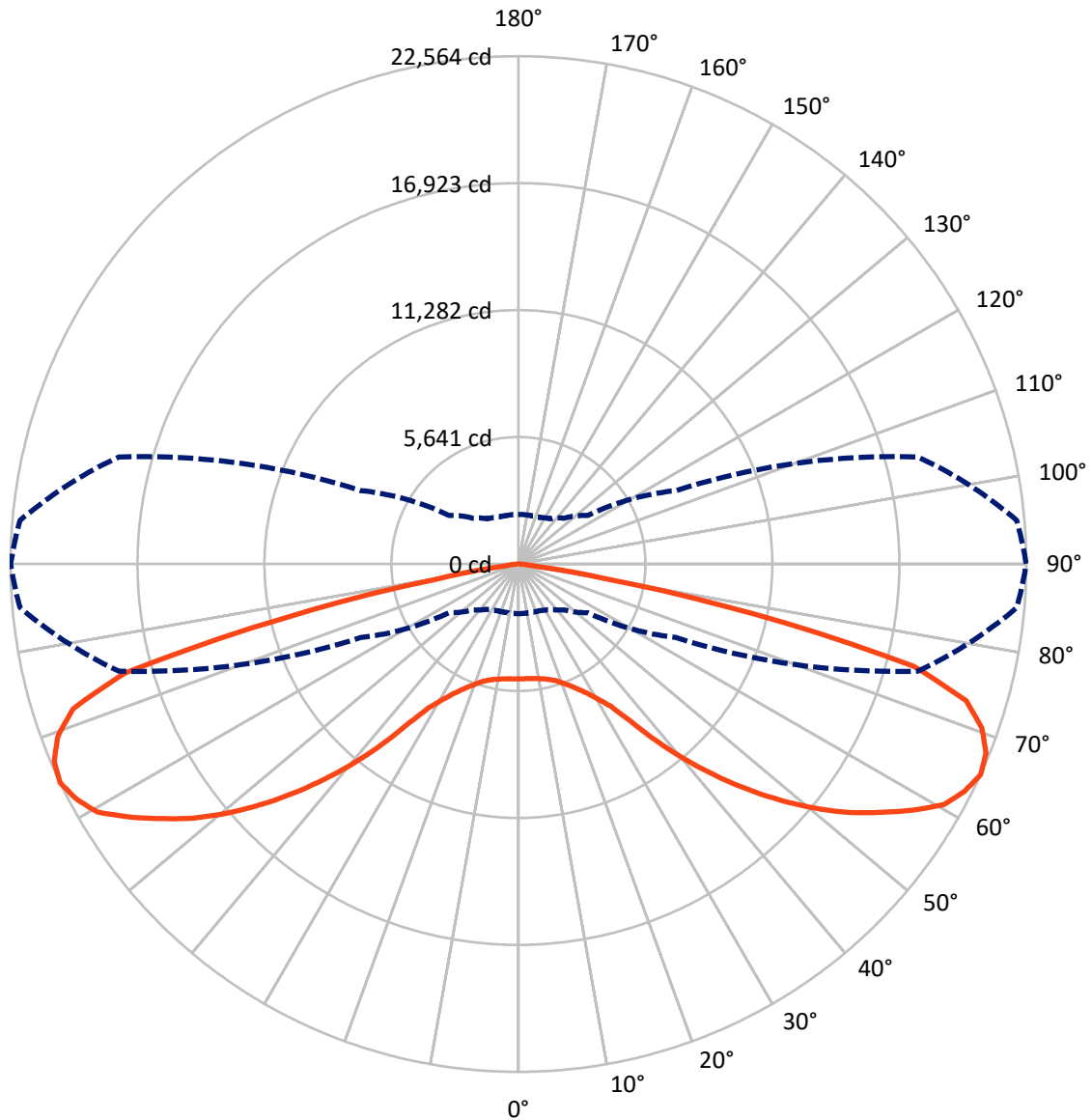
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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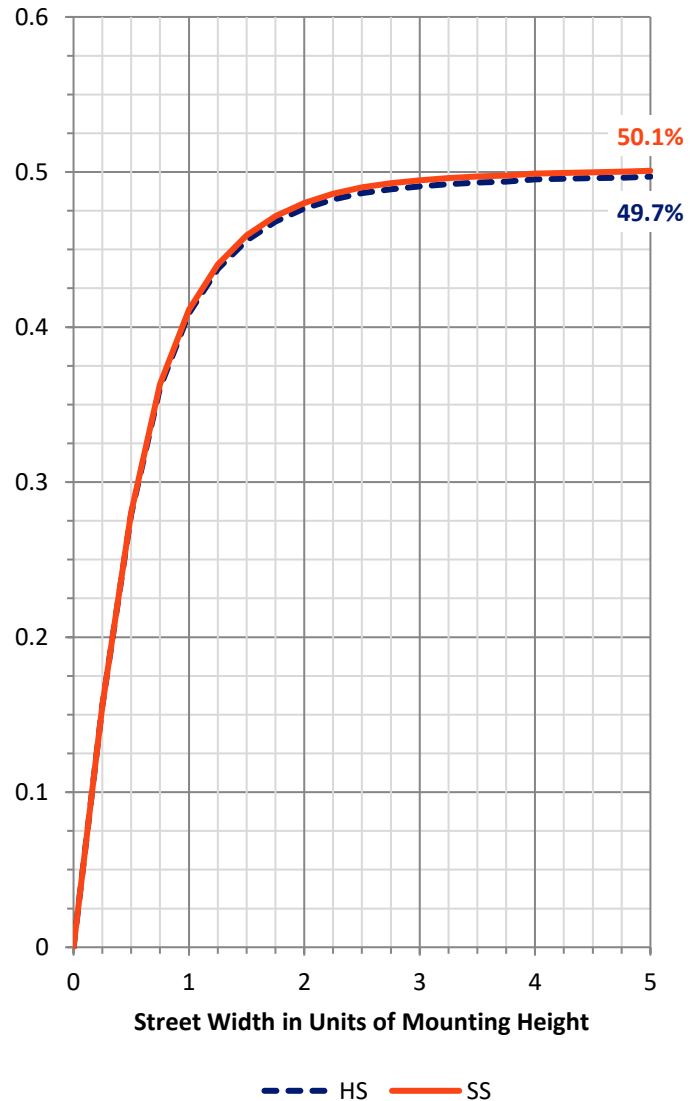
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15527.5	0.0	15527.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15527.5	0.0	15527.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31055.0	0.0	31055.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.2	1.6
10°-20°	1443.8	4.6
20°-30°	2383.7	7.7
30°-40°	3492.8	11.2
40°-50°	5094.8	16.4
50°-60°	6596.1	21.2
60°-70°	6949.4	22.4
70°-80°	4241.5	13.7
80°-90°	366.7	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°	31055.0	100.0
0°-180°	31055.0	100.0



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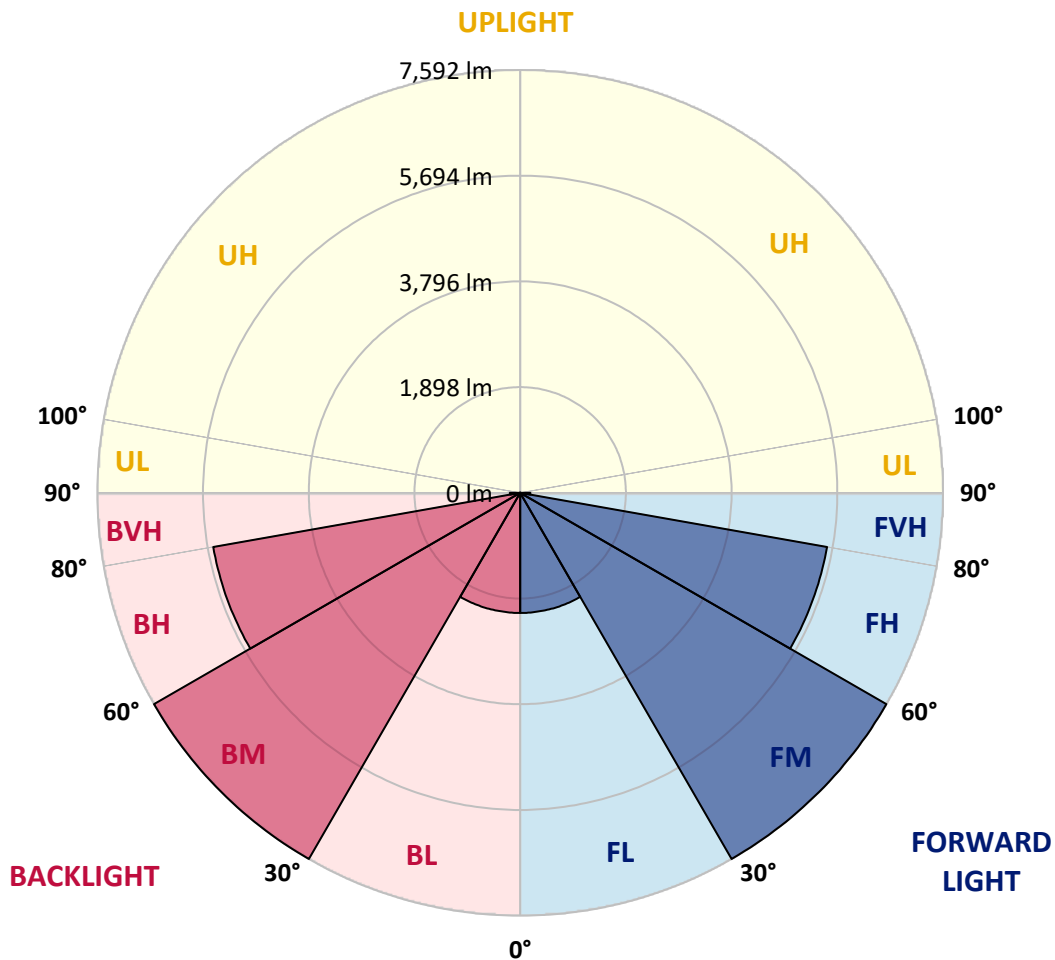
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2156.9	6.9			
FM	(30°-60°)	7591.8	24.4			
FH	(60°-80°)	5595.5	18.0			G3/7500
FVH	(80°-90°)	183.3	0.6			G2/225
BL	(0°-30°)	2156.9	6.9	B3/2500		
BM	(30°-60°)	7591.8	24.4	B4/8500		
BH	(60°-80°)	5595.5	18.0	B5		G5
BVH	(80°-90°)	183.3	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°	5109.2	5109.2	5109.2	5109.2	5109.2	5109.2	5109.2	5109.2	5109.2	5109.2	5109.2
2.5°	5066.9	5107.9	5114.5	5097.3	5098.7	5096.0	5106.6	5110.6	5115.9	5107.9	5104.0
5°	5059.0	5094.7	5101.3	5093.4	5104.0	5101.3	5106.6	5115.9	5114.5	5111.9	5111.9
7.5°	5016.7	5043.1	5064.3	5059.0	5061.6	5078.8	5097.3	5127.8	5142.3	5142.3	5139.7
10°	4961.1	4988.9	5024.6	5016.7	5033.9	5069.6	5106.6	5138.3	5175.4	5183.3	5183.3
12.5°	4901.6	4940.0	4974.3	4982.3	5022.0	5063.0	5130.4	5179.3	5221.7	5240.2	5238.9
15°	4822.2	4855.3	4896.3	4925.4	4988.9	5077.5	5166.1	5241.5	5302.3	5327.5	5331.4
17.5°	4716.4	4752.1	4795.8	4856.6	4967.7	5094.7	5232.2	5334.1	5426.7	5453.1	5453.1
20°	4577.6	4615.9	4668.8	4762.7	4913.5	5111.9	5295.7	5455.8	5576.1	5638.3	5647.5
22.5°	4362.0	4404.3	4490.3	4652.9	4851.3	5109.2	5371.1	5598.6	5779.8	5860.5	5869.7
25°	4122.6	4176.8	4298.5	4512.7	4774.6	5106.6	5446.5	5760.0	6002.0	6126.3	6152.8
27.5°	3911.0	3962.5	4112.0	4376.5	4703.2	5111.9	5521.9	5945.1	6294.3	6472.9	6495.3
30°	3703.3	3749.6	3916.3	4231.0	4637.1	5118.5	5618.5	6158.1	6626.3	6898.7	6953.0
32.5°	3532.7	3579.0	3740.3	4076.3	4556.4	5133.1	5741.5	6442.4	7087.9	7495.2	7529.6
35°	3383.2	3436.1	3577.7	3920.2	4449.3	5154.2	5896.2	6815.4	7749.2	8500.4	8540.1
37.5°	3253.6	3295.9	3421.6	3754.9	4336.8	5158.2	6076.1	7253.2	8603.6	9713.3	9984.4
40°	3167.7	3196.8	3293.3	3602.8	4188.7	5125.1	6282.4	7742.6	9555.9	11121.8	11431.3
42.5°	3089.6	3116.1	3192.8	3462.6	4034.0	5061.6	6474.2	8245.2	10509.5	12560.8	12853.1
45°	2995.7	3016.9	3094.9	3343.6	3883.2	4963.8	6632.9	8710.7	11496.1	14006.4	14281.6
47.5°	2919.0	2934.9	3001.0	3236.4	3715.2	4806.4	6700.3	9132.6	12554.2	15343.6	15684.8
50°	2866.1	2860.8	2919.0	3125.3	3543.3	4586.8	6643.5	9444.8	13669.2	16682.1	17049.8
52.5°	2774.8	2780.1	2835.7	3010.3	3400.4	4315.7	6421.3	9664.3	14790.8	17904.2	18339.3
55°	2680.9	2688.9	2732.5	2889.9	3249.7	4057.8	6009.9	9694.7	15963.9	19181.8	19478.1
57.5°	2580.4	2584.4	2621.4	2760.3	3081.7	3790.6	5491.5	9501.6	17052.4	20353.7	20634.1
60°	2491.8	2493.1	2518.3	2625.4	2895.2	3502.3	4888.4	9114.1	17929.3	21253.0	21709.3
62.5°	2372.8	2372.8	2388.6	2478.6	2704.7	3204.7	4309.1	8513.6	18408.1	21909.0	22241.0
65°	2202.1	2204.8	2220.7	2278.9	2454.8	2880.6	3765.5	7720.1	18379.0	22230.4	22563.7
67.5°	1875.5	1868.8	1964.1	2059.3	2196.9	2552.6	3232.5	6941.1	17712.4	22092.9	22405.0
70°	1358.3	1349.1	1404.6	1539.5	1871.5	2132.0	2747.1	6290.3	15797.3	21578.4	21837.6
72.5°	1115.0	1120.3	1122.9	1105.7	1252.5	1726.0	2294.7	5532.5	13034.3	20000.5	20807.3
75°	882.2	869.0	883.5	896.7	936.4	1011.8	1856.9	4606.7	10578.2	16770.7	18131.7
77.5°	556.8	548.9	547.6	555.5	607.1	641.5	1137.4	3376.6	7360.3	10608.7	10698.6
80°	387.5	386.2	387.5	398.1	415.3	423.2	630.9	1850.3	3706.0	3863.3	3794.6
82.5°	275.1	265.8	257.9	277.7	268.5	260.6	379.6	847.8	999.9	681.1	552.9
85°	136.2	138.9	117.7	149.5	140.2	136.2	148.1	161.4	149.5	279.1	316.1
87.5°	38.4	37.0	41.0	47.6	46.3	52.9	47.6	51.6	60.8	105.8	104.5
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)