

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: P510243

Luminaire Tested: **VERD-M-CA4-230-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510243
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-CA4-230-760-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34273 lumens
Efficiency: N/A
Efficacy: 146.9 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

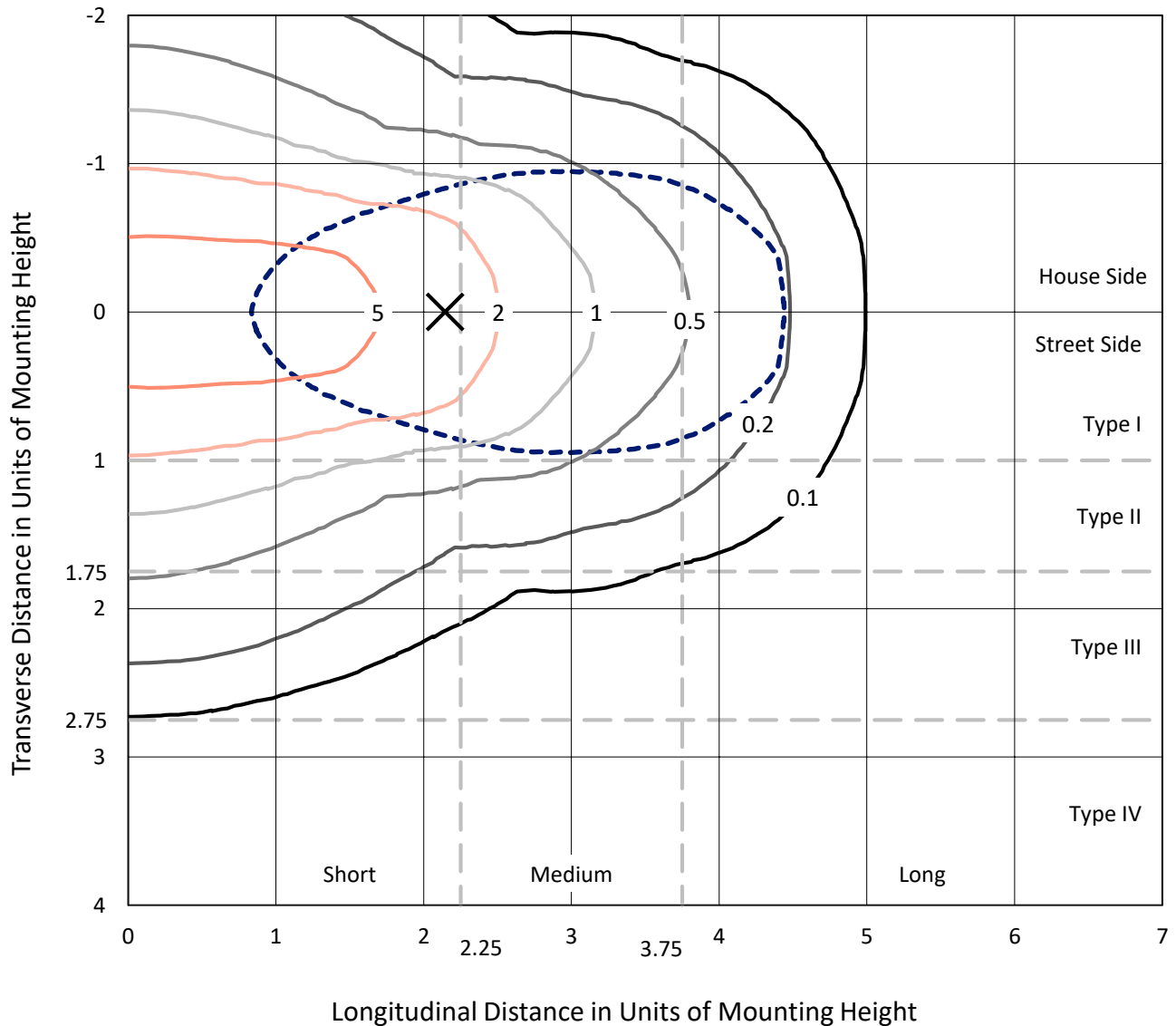
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

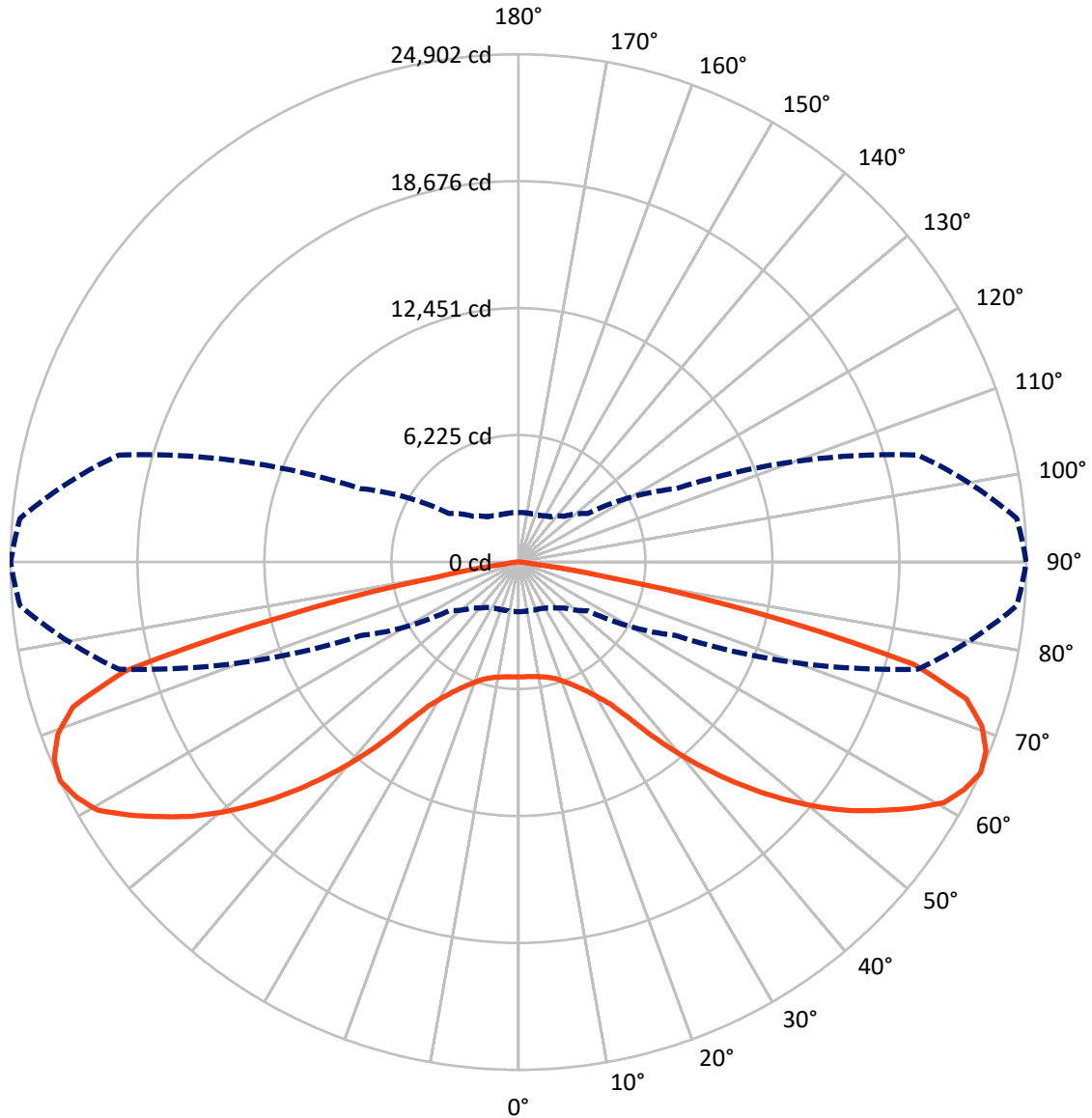
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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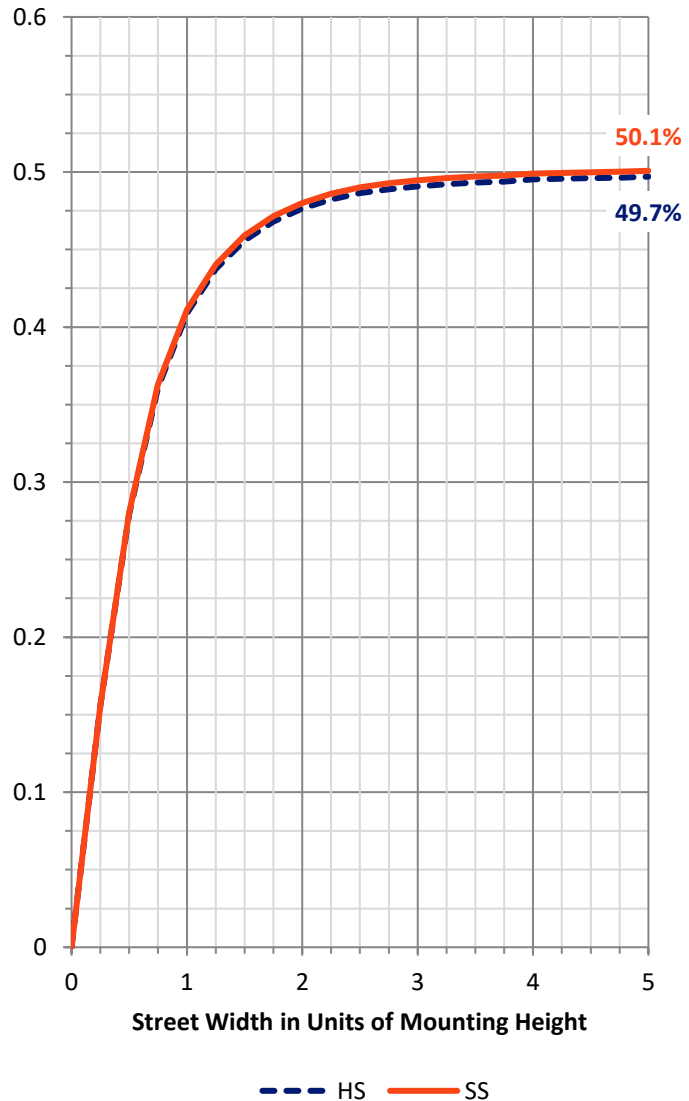
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17136.5	0.0	17136.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17136.5	0.0	17136.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34273.0	0.0	34273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.6	1.6
10°-20°	1593.4	4.6
20°-30°	2630.7	7.7
30°-40°	3854.7	11.2
40°-50°	5622.7	16.4
50°-60°	7279.6	21.2
60°-70°	7669.6	22.4
70°-80°	4681.0	13.7
80°-90°	404.6	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°	34273.0	100.0
0°-180°	34273.0	100.0



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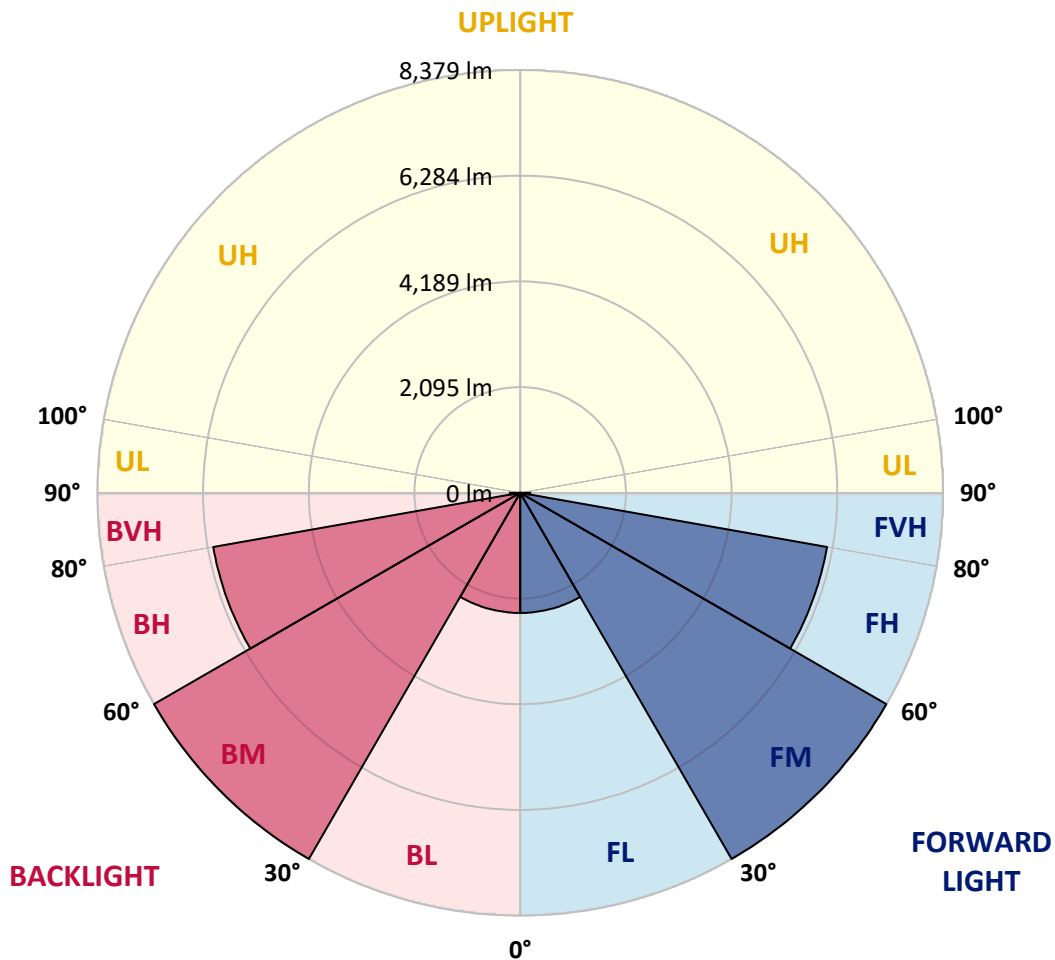
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2380.4	6.9			
FM	(30°-60°)	8378.5	24.4			
FH	(60°-80°)	6175.3	18.0			G3/7500
FVH	(80°-90°)	202.3	0.6			G2/225
BL	(0°-30°)	2380.4	6.9	B3/2500		
BM	(30°-60°)	8378.5	24.4	B4/8500		
BH	(60°-80°)	6175.3	18.0	B5		G5
BVH	(80°-90°)	202.3	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°	5638.7	5638.7	5638.7	5638.7	5638.7	5638.7	5638.7	5638.7	5638.7	5638.7	5638.7
2.5°	5592.0	5637.2	5644.5	5625.5	5627.0	5624.1	5635.8	5640.1	5646.0	5637.2	5632.8
5°	5583.2	5622.6	5629.9	5621.2	5632.8	5629.9	5635.8	5646.0	5644.5	5641.6	5641.6
7.5°	5536.5	5565.7	5589.1	5583.2	5586.1	5605.1	5625.5	5659.1	5675.2	5675.2	5672.3
10°	5475.2	5505.8	5545.3	5536.5	5555.5	5594.9	5635.8	5670.8	5711.7	5720.4	5720.4
12.5°	5409.5	5451.8	5489.8	5498.6	5542.3	5587.6	5662.0	5716.0	5762.8	5783.2	5781.7
15°	5321.9	5358.4	5403.7	5435.8	5505.8	5603.6	5701.4	5784.6	5851.8	5879.5	5883.9
17.5°	5205.2	5244.6	5292.7	5359.9	5482.5	5622.6	5774.4	5886.8	5989.0	6018.2	6018.2
20°	5051.9	5094.2	5152.6	5256.2	5422.6	5641.6	5844.5	6021.1	6153.9	6222.5	6232.8
22.5°	4814.0	4860.7	4955.6	5135.1	5354.0	5638.7	5927.7	6178.8	6378.7	6467.8	6478.0
25°	4549.8	4609.6	4743.9	4980.4	5269.4	5635.8	6010.9	6356.8	6624.0	6761.2	6790.4
27.5°	4316.2	4373.2	4538.1	4830.0	5190.6	5641.6	6094.1	6561.2	6946.5	7143.6	7168.4
30°	4087.1	4138.1	4322.1	4669.5	5117.6	5648.9	6200.6	6796.2	7312.9	7613.6	7673.4
32.5°	3898.8	3949.8	4127.9	4498.7	5028.5	5665.0	6336.4	7110.0	7822.3	8271.9	8309.9
35°	3733.8	3792.2	3948.4	4326.4	4910.3	5688.3	6507.2	7521.6	8552.2	9381.3	9425.0
37.5°	3590.8	3637.5	3776.1	4144.0	4786.2	5692.7	6705.7	8004.8	9495.1	10719.8	11019.0
40°	3495.9	3528.0	3634.6	3976.1	4622.8	5656.2	6933.4	8544.9	10546.1	12274.3	12615.9
42.5°	3409.8	3439.0	3523.6	3821.4	4452.0	5586.1	7145.1	9099.5	11598.5	13862.4	14185.0
45°	3306.1	3329.5	3415.6	3690.0	4285.6	5478.1	7320.2	9613.3	12687.4	15457.8	15761.4
47.5°	3221.5	3239.0	3312.0	3571.8	4100.2	5304.4	7394.7	10079.0	13855.1	16933.6	17310.1
50°	3163.1	3157.3	3221.5	3449.2	3910.4	5062.1	7331.9	10423.5	15085.6	18410.7	18816.5
52.5°	3062.4	3068.2	3129.5	3322.2	3752.8	4762.9	7086.7	10665.8	16323.4	19759.5	20239.7
55°	2958.7	2967.5	3015.7	3189.4	3586.4	4478.2	6632.7	10699.3	17618.1	21169.5	21496.5
57.5°	2847.8	2852.2	2893.1	3046.3	3401.0	4183.4	6060.5	10486.2	18819.4	22462.8	22772.2
60°	2750.0	2751.5	2779.2	2897.4	3195.2	3865.2	5394.9	10058.5	19787.2	23455.3	23958.9
62.5°	2618.6	2618.6	2636.2	2735.4	2985.0	3536.8	4755.6	9395.9	20315.6	24179.3	24545.7
65°	2430.3	2433.3	2450.8	2515.0	2709.1	3179.1	4155.7	8520.1	20283.5	24534.0	24901.9
67.5°	2069.8	2062.5	2167.6	2272.7	2424.5	2817.1	3567.4	7660.3	19547.8	24382.2	24726.7
70°	1499.1	1488.9	1550.2	1699.0	2065.4	2353.0	3031.7	6942.2	17434.2	23814.4	24100.5
72.5°	1230.5	1236.3	1239.3	1220.3	1382.3	1904.9	2532.5	6105.8	14385.0	22073.0	22963.4
75°	973.6	959.0	975.1	989.7	1033.4	1116.6	2049.4	5084.0	11674.4	18508.5	20010.5
77.5°	614.5	605.8	604.3	613.1	670.0	707.9	1255.3	3726.5	8123.0	11708.0	11807.2
80°	427.7	426.2	427.7	439.4	458.3	467.1	696.3	2042.1	4090.0	4263.7	4187.8
82.5°	303.6	293.4	284.6	306.5	296.3	287.6	418.9	935.6	1103.5	751.7	610.1
85°	150.3	153.3	129.9	164.9	154.7	150.3	163.5	178.1	164.9	308.0	348.9
87.5°	42.3	40.9	45.2	52.5	51.1	58.4	52.5	56.9	67.1	116.8	115.3
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)