

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: P510187

Luminaire Tested: **VERD-M-CA4-220-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510187
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-CA4-220-750-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1000mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33710 lumens
Efficiency: N/A
Efficacy: 151.5 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

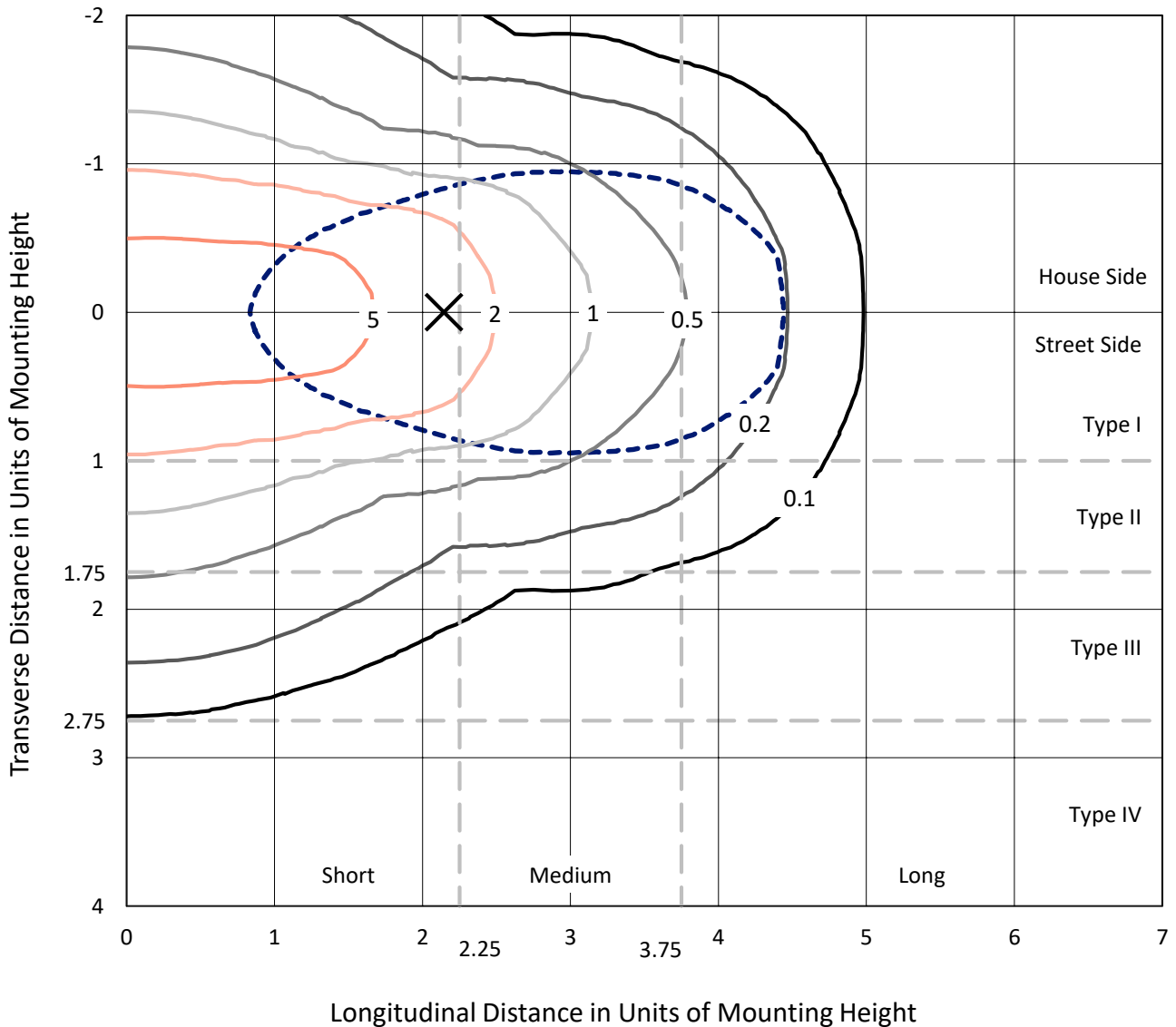
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510187
 CATALOG NUMBER: VERD-M-CA4-220-750-U-T1

Iso-Footcandle Lines of Horizontal Illumination

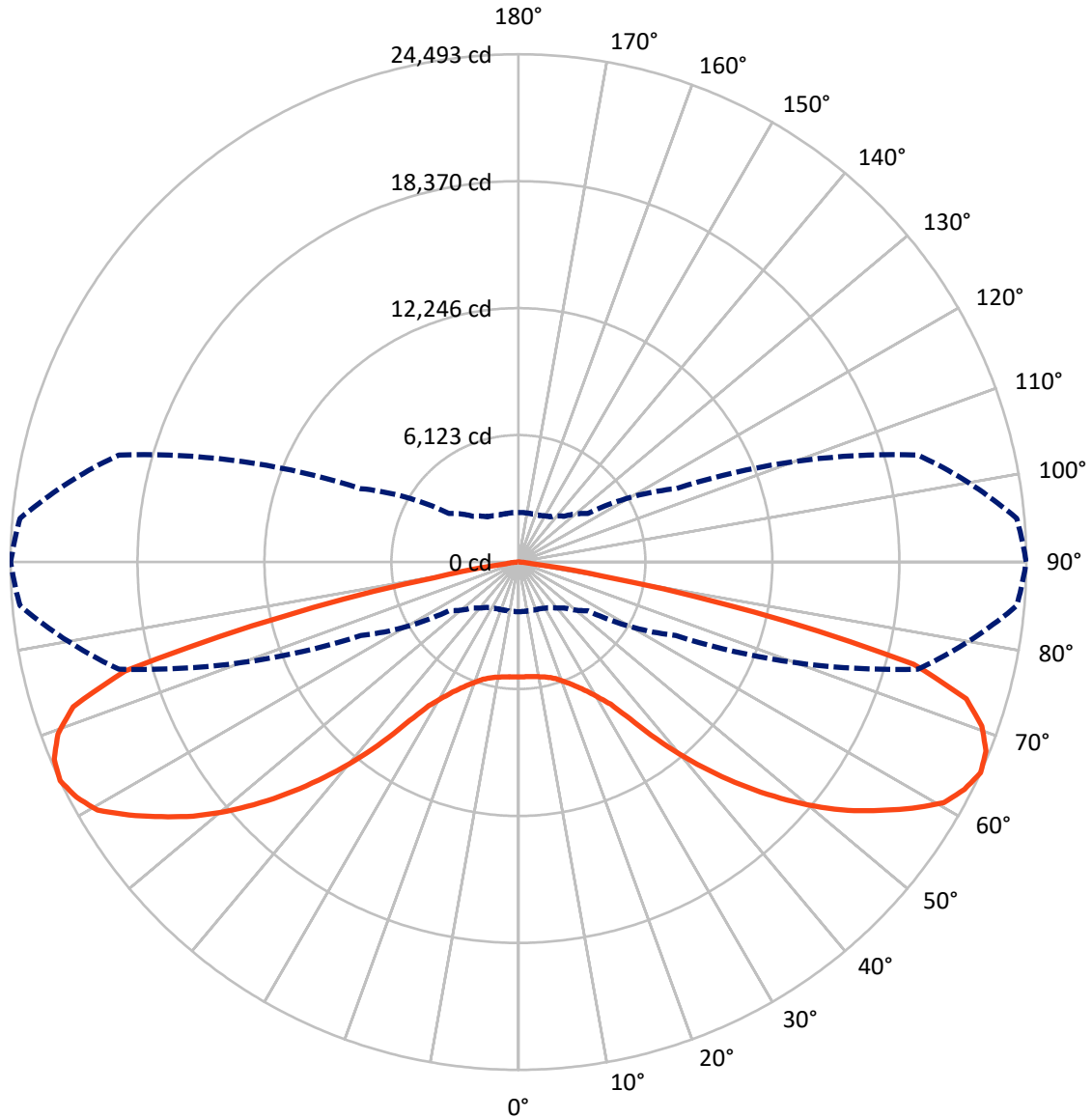
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type I - Short - N/A

REPORT NUMBER: P510187
CATALOG NUMBER: VERD-M-CA4-220-750-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510187

CATALOG NUMBER: VERD-M-CA4-220-750-U-T1

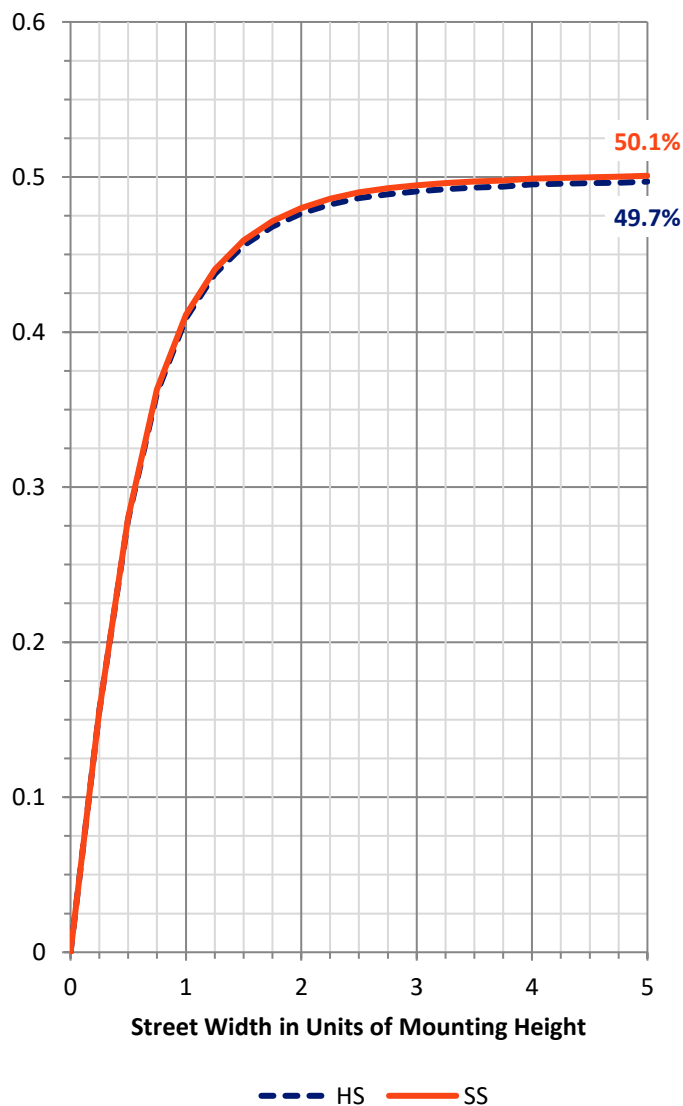
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16855.0	0.0	16855.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16855.0	0.0	16855.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33710.0	0.0	33710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.8	1.6
10°-20°	1567.3	4.6
20°-30°	2587.5	7.7
30°-40°	3791.4	11.2
40°-50°	5530.4	16.4
50°-60°	7160.0	21.2
60°-70°	7543.6	22.4
70°-80°	4604.1	13.7
80°-90°	398.0	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°	33710.0	100.0
0°-180°	33710.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510187

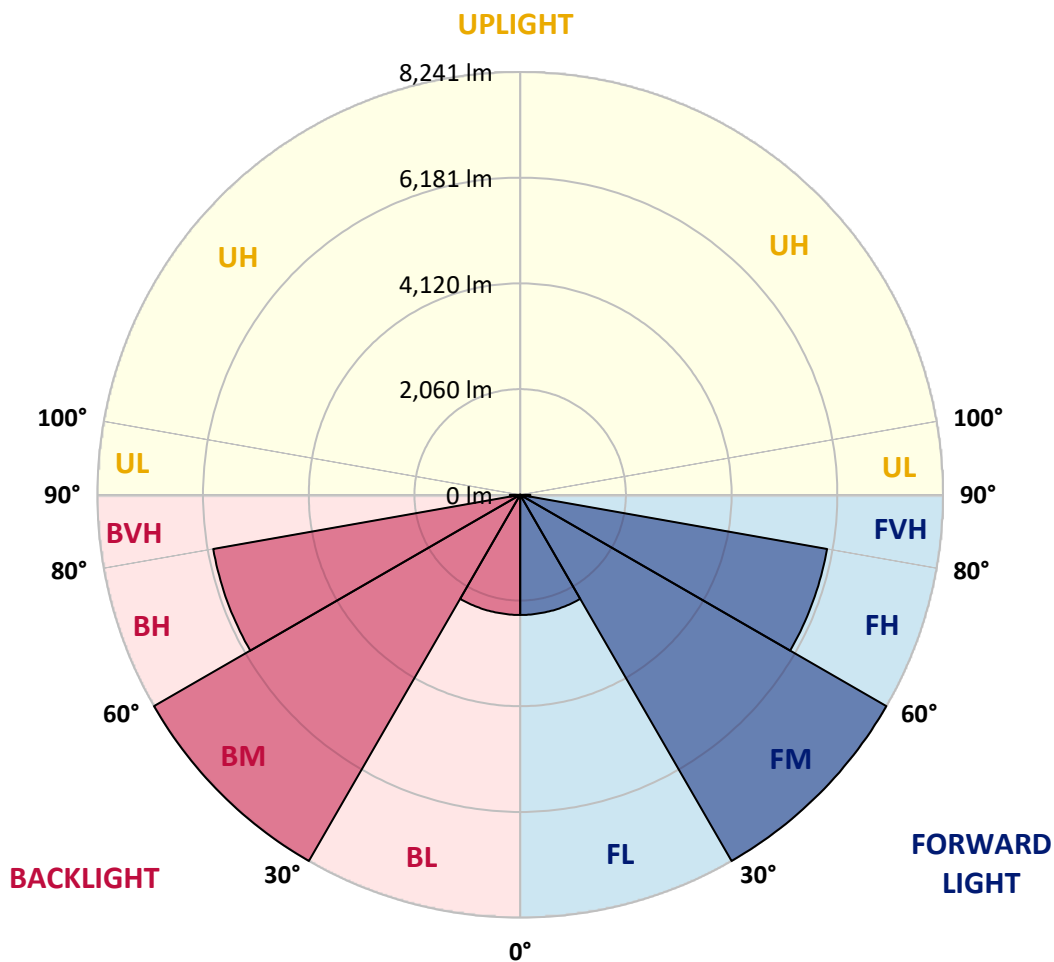
CATALOG NUMBER: VERD-M-CA4-220-750-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2341.3	6.9			
FM (30°-60°)	8240.9	24.4			
FH (60°-80°)	6073.8	18.0			G3/7500
FVH (80°-90°)	199.0	0.6			G2/225
BL (0°-30°)	2341.3	6.9	B3/2500		
BM (30°-60°)	8240.9	24.4	B4/8500		
BH (60°-80°)	6073.8	18.0	B5		G5
BVH (80°-90°)	199.0	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





REPORT NUMBER: P510187

CATALOG NUMBER: VERD-M-CA4-220-750-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1
2.5°	5500.1	5544.6	5551.8	5533.1	5534.6	5531.7	5543.2	5547.5	5553.2	5544.6	5540.3
5°	5491.5	5530.3	5537.4	5528.8	5540.3	5537.4	5543.2	5553.2	5551.8	5548.9	5548.9
7.5°	5445.6	5474.3	5497.2	5491.5	5494.4	5513.0	5533.1	5566.2	5581.9	5581.9	5579.1
10°	5385.3	5415.4	5454.2	5445.6	5464.2	5503.0	5543.2	5577.6	5617.8	5626.5	5626.5
12.5°	5320.6	5362.3	5399.6	5408.2	5451.3	5495.8	5569.0	5622.1	5668.1	5688.2	5686.7
15°	5234.5	5270.4	5314.9	5346.5	5415.4	5511.6	5607.8	5689.6	5755.7	5782.9	5787.2
17.5°	5119.7	5158.4	5205.8	5271.8	5392.4	5530.3	5679.6	5790.1	5890.6	5919.3	5919.3
20°	4968.9	5010.5	5068.0	5169.9	5333.6	5548.9	5748.5	5922.2	6052.8	6120.3	6130.4
22.5°	4734.9	4780.8	4874.2	5050.7	5266.1	5546.1	5830.3	6077.3	6273.9	6361.5	6371.6
25°	4475.0	4533.9	4666.0	4898.6	5182.8	5543.2	5912.2	6252.4	6515.1	6650.1	6678.8
27.5°	4245.3	4301.3	4463.5	4750.7	5105.3	5548.9	5994.0	6453.4	6832.4	7026.2	7050.7
30°	4019.9	4070.2	4251.1	4592.8	5033.5	5556.1	6098.8	6684.6	7192.8	7488.5	7547.4
32.5°	3834.7	3885.0	4060.1	4424.8	4945.9	5571.9	6232.3	6993.2	7693.8	8136.0	8173.4
35°	3672.5	3729.9	3883.5	4255.4	4829.6	5594.9	6400.3	7398.1	8411.7	9227.1	9270.2
37.5°	3531.8	3577.7	3714.1	4075.9	4707.6	5599.2	6595.5	7873.3	9339.1	10543.7	10838.0
40°	3438.5	3470.1	3574.9	3910.8	4546.8	5563.3	6819.5	8404.5	10372.8	12072.7	12408.6
42.5°	3353.8	3382.5	3465.7	3758.6	4378.8	5494.4	7027.7	8950.1	11408.0	13634.7	13952.0
45°	3251.8	3274.8	3359.5	3629.4	4215.2	5388.1	7200.0	9455.4	12479.0	15203.9	15502.5
47.5°	3168.6	3185.8	3257.6	3513.1	4032.8	5217.3	7273.2	9913.4	13627.5	16655.4	17025.8
50°	3111.1	3105.4	3168.6	3392.5	3846.2	4979.0	7211.4	10252.2	14837.8	18108.3	18507.4
52.5°	3012.1	3017.8	3078.1	3267.6	3691.1	4684.6	6970.3	10490.6	16055.3	19434.9	19907.2
55°	2910.1	2918.7	2966.1	3137.0	3527.5	4404.7	6523.8	10523.6	17328.7	20821.7	21143.3
57.5°	2801.0	2805.3	2845.5	2996.3	3345.1	4114.7	5961.0	10314.0	18510.3	22093.8	22398.1
60°	2704.8	2706.3	2733.5	2849.8	3142.7	3801.7	5306.3	9893.3	19462.2	23070.0	23565.3
62.5°	2575.6	2575.6	2592.8	2690.5	2936.0	3478.7	4677.5	9241.5	19981.9	23782.1	24142.5
65°	2390.4	2393.3	2410.5	2473.7	2664.6	3126.9	4087.4	8380.1	19950.3	24131.0	24492.8
67.5°	2035.8	2028.6	2132.0	2235.4	2384.7	2770.9	3508.8	7534.5	19226.7	23981.7	24320.5
70°	1474.4	1464.4	1524.7	1671.1	2031.5	2314.3	2981.9	6828.1	17147.8	23423.2	23704.6
72.5°	1210.3	1216.0	1218.9	1200.2	1359.6	1873.6	2490.9	6005.5	14148.7	21710.4	22586.2
75°	957.6	943.2	959.0	973.4	1016.5	1098.3	2015.7	5000.5	11482.6	18204.5	19681.8
77.5°	604.4	595.8	594.4	603.0	659.0	696.3	1234.7	3665.3	7989.6	11515.6	11613.3
80°	420.7	419.2	420.7	432.1	450.8	459.4	684.8	2008.5	4022.8	4193.6	4119.0
82.5°	298.6	288.6	280.0	301.5	291.4	282.8	412.0	920.3	1085.4	739.4	600.1
85°	147.9	150.7	127.8	162.2	152.2	147.9	160.8	175.2	162.2	302.9	343.1
87.5°	41.6	40.2	44.5	51.7	50.2	57.4	51.7	56.0	66.0	114.9	113.4
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)