

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: P510155

Luminaire Tested: **VERD-M-CA4-220-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510155
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-CA4-220-722-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1000mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26979 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

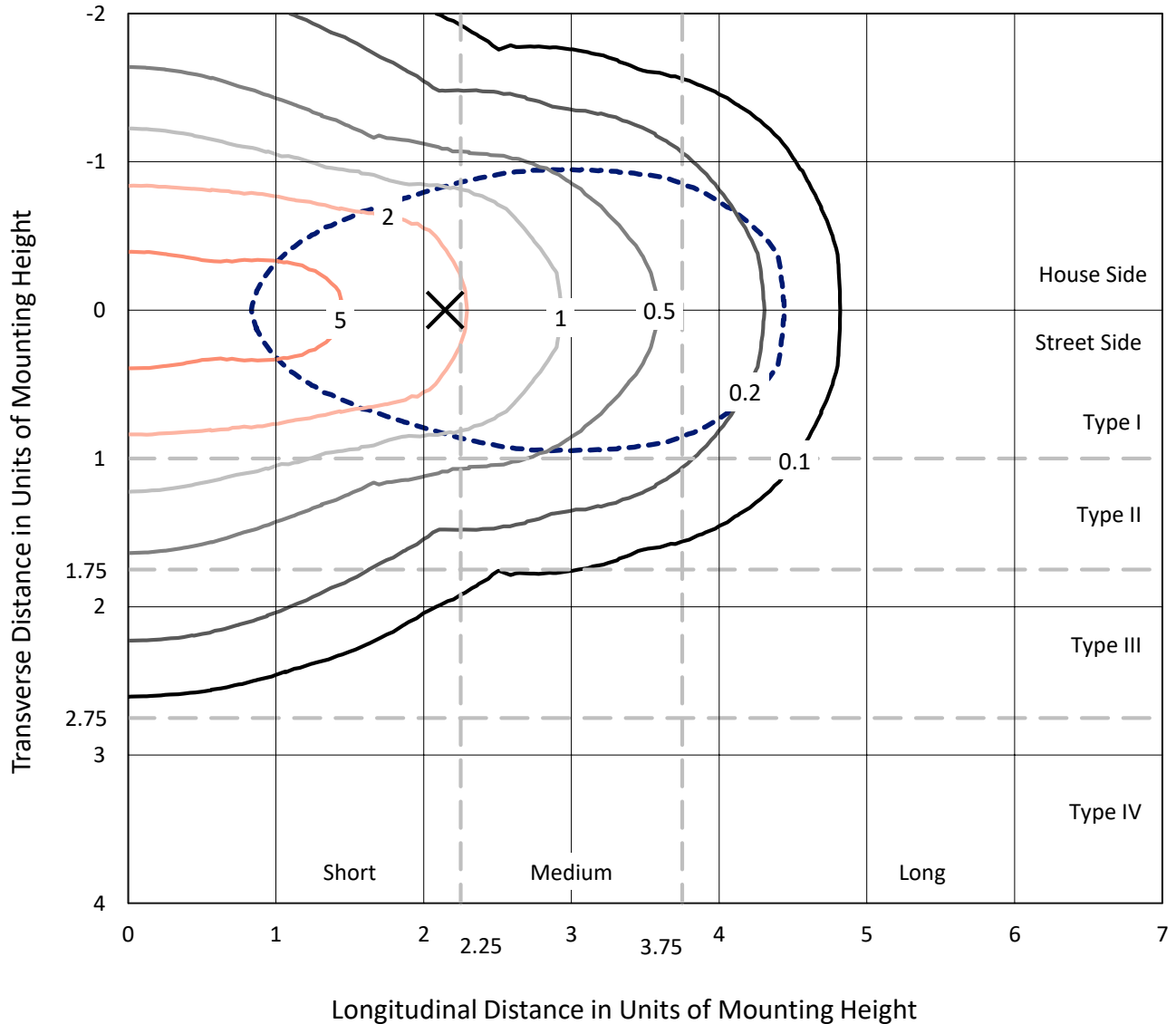
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510155
 CATALOG NUMBER: VERD-M-CA4-220-722-U-T1

Iso-Footcandle Lines of Horizontal Illumination

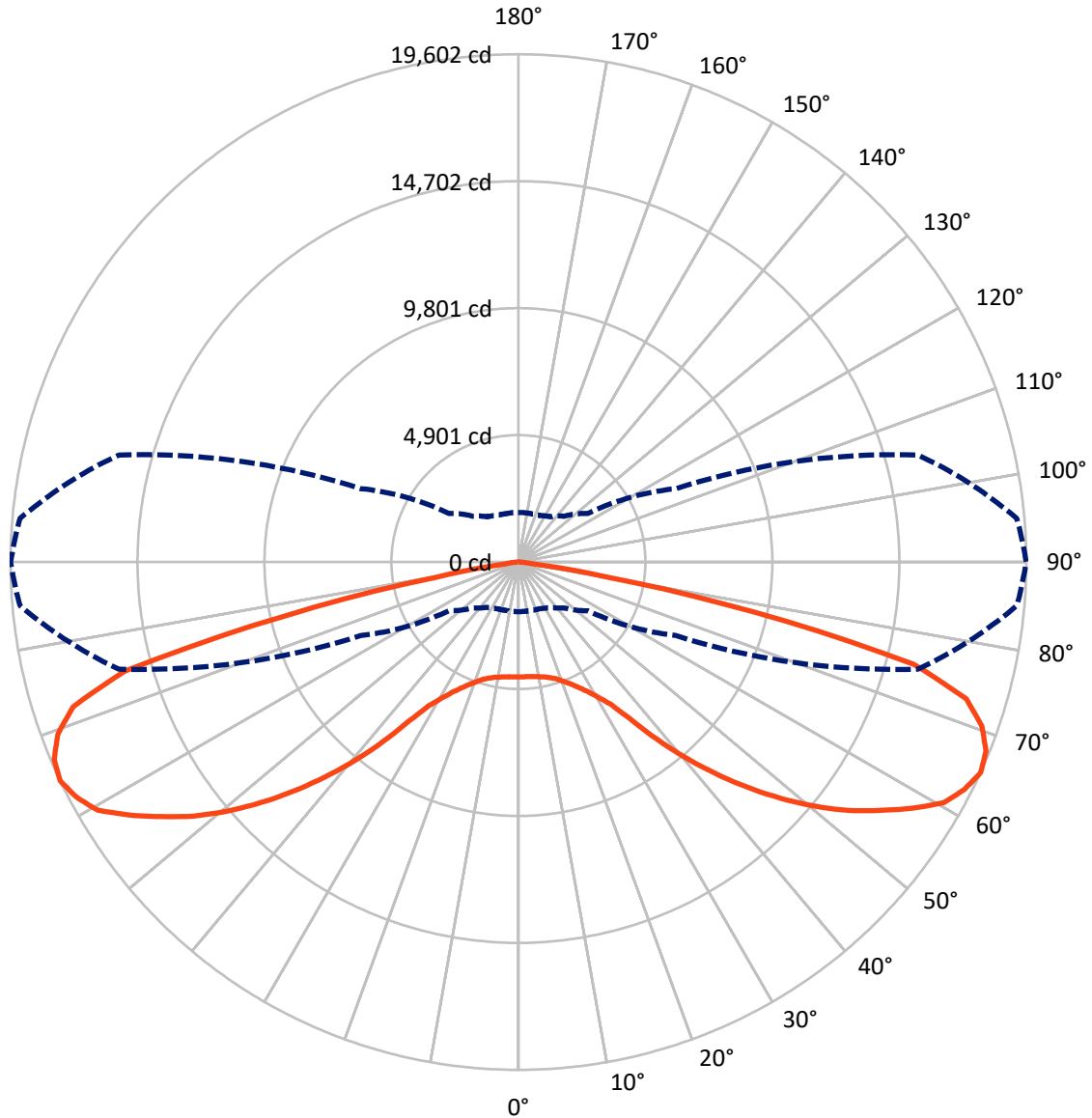
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type I - Short - N/A

REPORT NUMBER: P510155
CATALOG NUMBER: VERD-M-CA4-220-722-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510155
 CATALOG NUMBER: VERD-M-CA4-220-722-U-T1

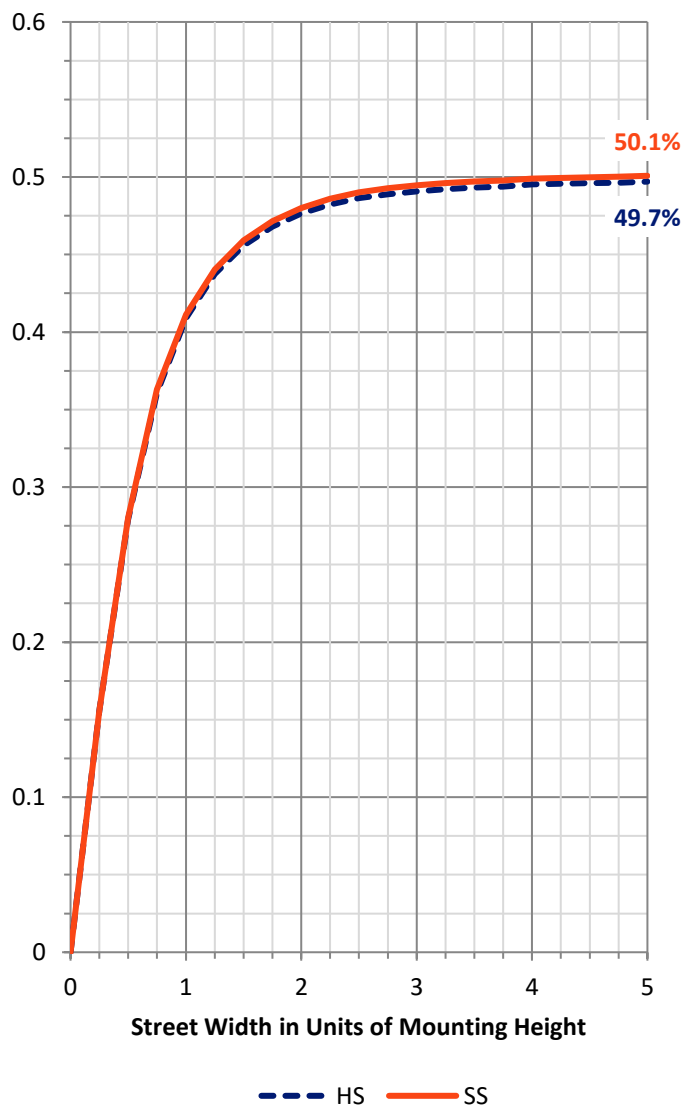
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13489.5	0.0	13489.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13489.5	0.0	13489.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26979.0	0.0	26979.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.4	1.6
10°-20°	1254.3	4.6
20°-30°	2070.8	7.7
30°-40°	3034.3	11.2
40°-50°	4426.1	16.4
50°-60°	5730.4	21.2
60°-70°	6037.3	22.4
70°-80°	3684.8	13.7
80°-90°	318.5	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°	26979.0	100.0
0°-180°	26979.0	100.0



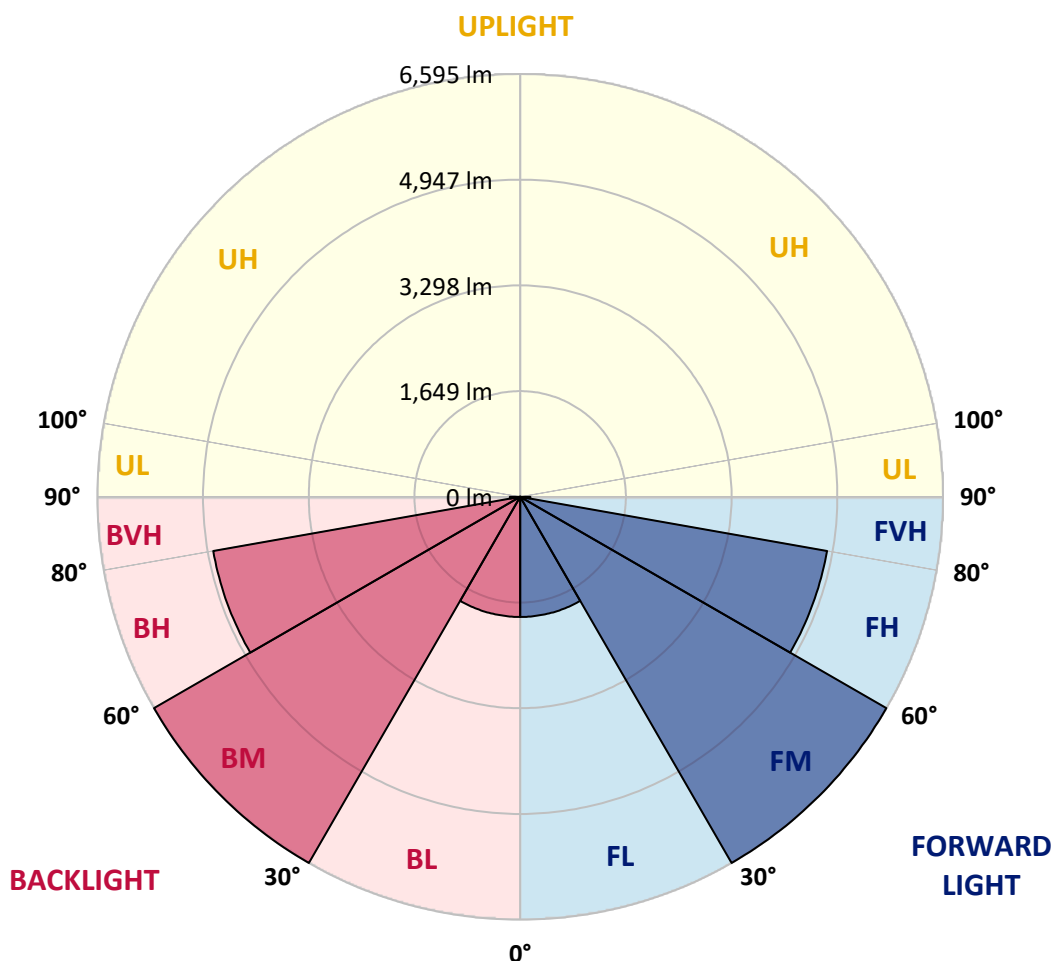
REPORT NUMBER: P510155
 CATALOG NUMBER: VERD-M-CA4-220-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1873.8	6.9			
FM	(30°-60°)	6595.4	24.4			
FH	(60°-80°)	4861.1	18.0			G2/5000
FVH	(80°-90°)	159.3	0.6			G2/225
BL	(0°-30°)	1873.8	6.9	B3/2500		
BM	(30°-60°)	6595.4	24.4	B4/8500		
BH	(60°-80°)	4861.1	18.0	B4/5000		G4/5000
BVH	(80°-90°)	159.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





REPORT NUMBER: P510155

CATALOG NUMBER: VERD-M-CA4-220-722-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7
2.5°	4401.9	4437.5	4443.2	4428.3	4429.5	4427.2	4436.4	4439.8	4444.4	4437.5	4434.1
5°	4395.0	4426.0	4431.8	4424.9	4434.1	4431.8	4436.4	4444.4	4443.2	4440.9	4440.9
7.5°	4358.2	4381.2	4399.6	4395.0	4397.3	4412.2	4428.3	4454.7	4467.4	4467.4	4465.1
10°	4310.0	4334.1	4365.1	4358.2	4373.2	4404.2	4436.4	4463.9	4496.1	4503.0	4503.0
12.5°	4258.3	4291.6	4321.5	4328.3	4362.8	4398.4	4457.0	4499.5	4536.3	4552.4	4551.3
15°	4189.3	4218.0	4253.7	4278.9	4334.1	4411.1	4488.1	4553.6	4606.4	4628.2	4631.7
17.5°	4097.4	4128.4	4166.3	4219.2	4315.7	4426.0	4545.5	4634.0	4714.4	4737.4	4737.4
20°	3976.7	4010.1	4056.0	4137.6	4268.6	4440.9	4600.7	4739.7	4844.3	4898.3	4906.3
22.5°	3789.5	3826.2	3900.9	4042.2	4214.6	4438.7	4666.2	4863.8	5021.2	5091.3	5099.3
25°	3581.5	3628.6	3734.3	3920.4	4148.0	4436.4	4731.7	5004.0	5214.2	5322.2	5345.2
27.5°	3397.6	3442.5	3572.3	3802.1	4085.9	4440.9	4797.1	5164.8	5468.2	5623.3	5642.8
30°	3217.2	3257.5	3402.2	3675.7	4028.5	4446.7	4881.0	5349.8	5756.6	5993.3	6040.4
32.5°	3069.0	3109.2	3249.4	3541.3	3958.4	4459.3	4987.9	5596.9	6157.6	6511.5	6541.4
35°	2939.2	2985.1	3108.1	3405.7	3865.3	4477.7	5122.3	5920.9	6732.1	7384.7	7419.2
37.5°	2826.6	2863.3	2972.5	3262.1	3767.6	4481.2	5278.6	6301.2	7474.4	8438.4	8673.9
40°	2751.9	2777.2	2861.1	3129.9	3638.9	4452.4	5457.8	6726.3	8301.6	9662.1	9931.0
42.5°	2684.1	2707.1	2773.7	3008.1	3504.5	4397.3	5624.4	7163.0	9130.1	10912.2	11166.1
45°	2602.5	2620.9	2688.7	2904.7	3373.5	4312.3	5762.3	7567.4	9987.3	12168.1	12407.1
47.5°	2535.9	2549.7	2607.1	2811.6	3227.6	4175.5	5820.9	7934.0	10906.5	13329.7	13626.2
50°	2489.9	2485.3	2535.9	2715.1	3078.2	3984.8	5771.5	8205.1	11875.1	14492.5	14812.0
52.5°	2410.6	2415.2	2463.5	2615.2	2954.1	3749.2	5578.5	8395.9	12849.5	15554.2	15932.3
55°	2329.1	2336.0	2373.9	2510.6	2823.1	3525.2	5221.1	8422.3	13868.6	16664.2	16921.6
57.5°	2241.7	2245.2	2277.4	2398.0	2677.2	3293.1	4770.7	8254.5	14814.3	17682.2	17925.8
60°	2164.7	2165.9	2187.7	2280.8	2515.2	3042.6	4246.8	7917.9	15576.1	18463.6	18860.0
62.5°	2061.3	2061.3	2075.1	2153.3	2349.7	2784.1	3743.5	7396.2	15992.0	19033.5	19321.9
65°	1913.1	1915.4	1929.2	1979.8	2132.6	2502.6	3271.3	6706.8	15966.7	19312.7	19602.2
67.5°	1629.3	1623.6	1706.3	1789.0	1908.5	2217.6	2808.2	6030.0	15387.6	19193.2	19464.3
70°	1180.0	1172.0	1220.3	1337.5	1625.9	1852.2	2386.5	5464.7	13723.9	18746.2	18971.4
72.5°	968.6	973.2	975.5	960.6	1088.1	1499.5	1993.5	4806.3	11323.6	17375.4	18076.3
75°	766.4	754.9	767.5	779.0	813.5	879.0	1613.2	4002.0	9189.8	14569.5	15751.9
77.5°	483.7	476.8	475.7	482.6	527.4	557.3	988.2	2933.4	6394.3	9216.3	9294.4
80°	336.7	335.5	336.7	345.9	360.8	367.7	548.1	1607.5	3219.5	3356.3	3296.5
82.5°	239.0	231.0	224.1	241.3	233.3	226.4	329.8	736.5	868.7	591.7	480.3
85°	118.3	120.6	102.3	129.8	121.8	118.3	128.7	140.2	129.8	242.4	274.6
87.5°	33.3	32.2	35.6	41.4	40.2	46.0	41.4	44.8	52.9	91.9	90.8
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)