

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: P509963

Luminaire Tested: **VERD-M-CA3-180-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509963
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-CA3-180-722-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1120mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22064 lumens
Efficiency: N/A
Efficacy: 120.5 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

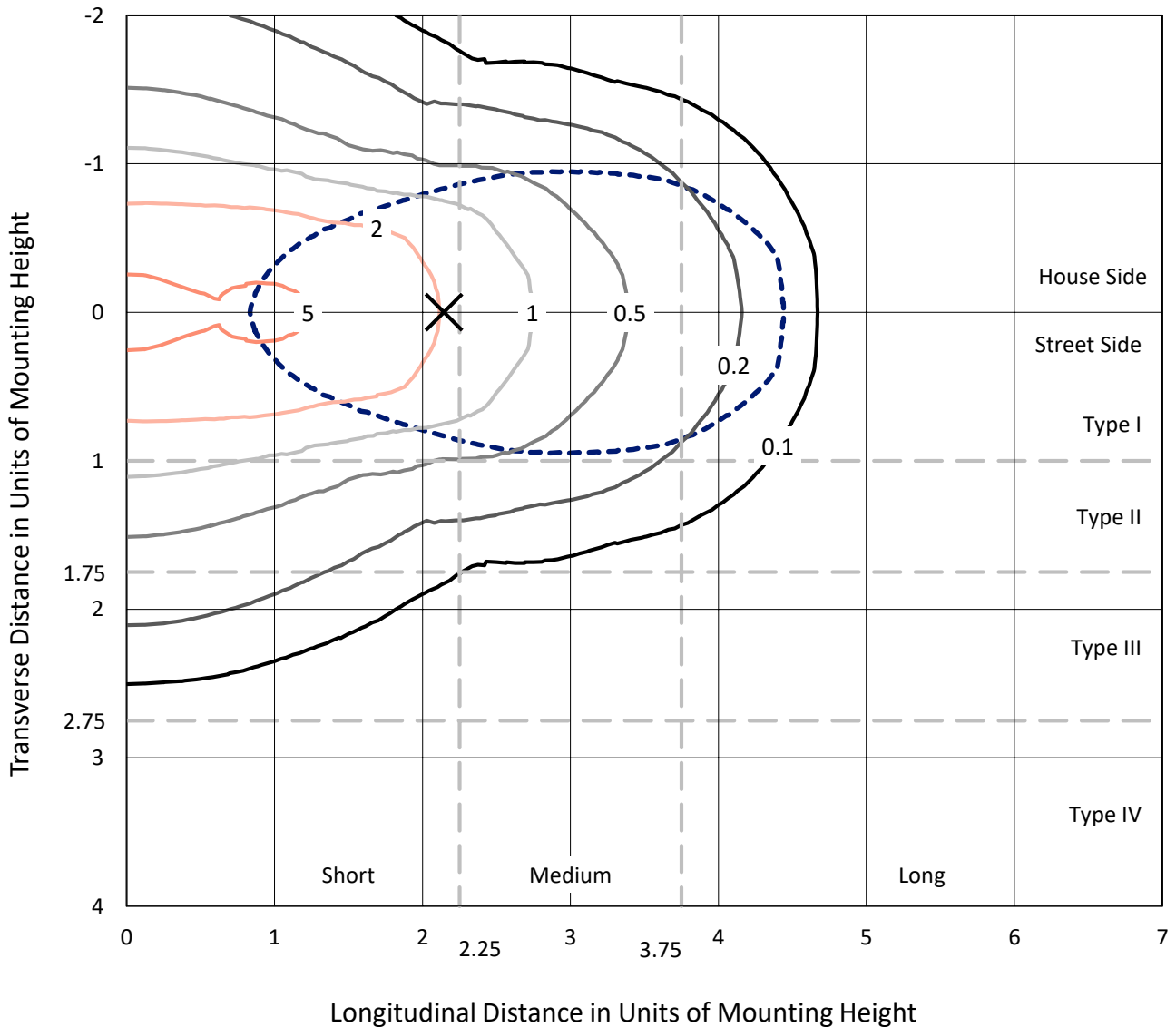
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509963
 CATALOG NUMBER: VERD-M-CA3-180-722-U-T1

Iso-Footcandle Lines of Horizontal Illumination

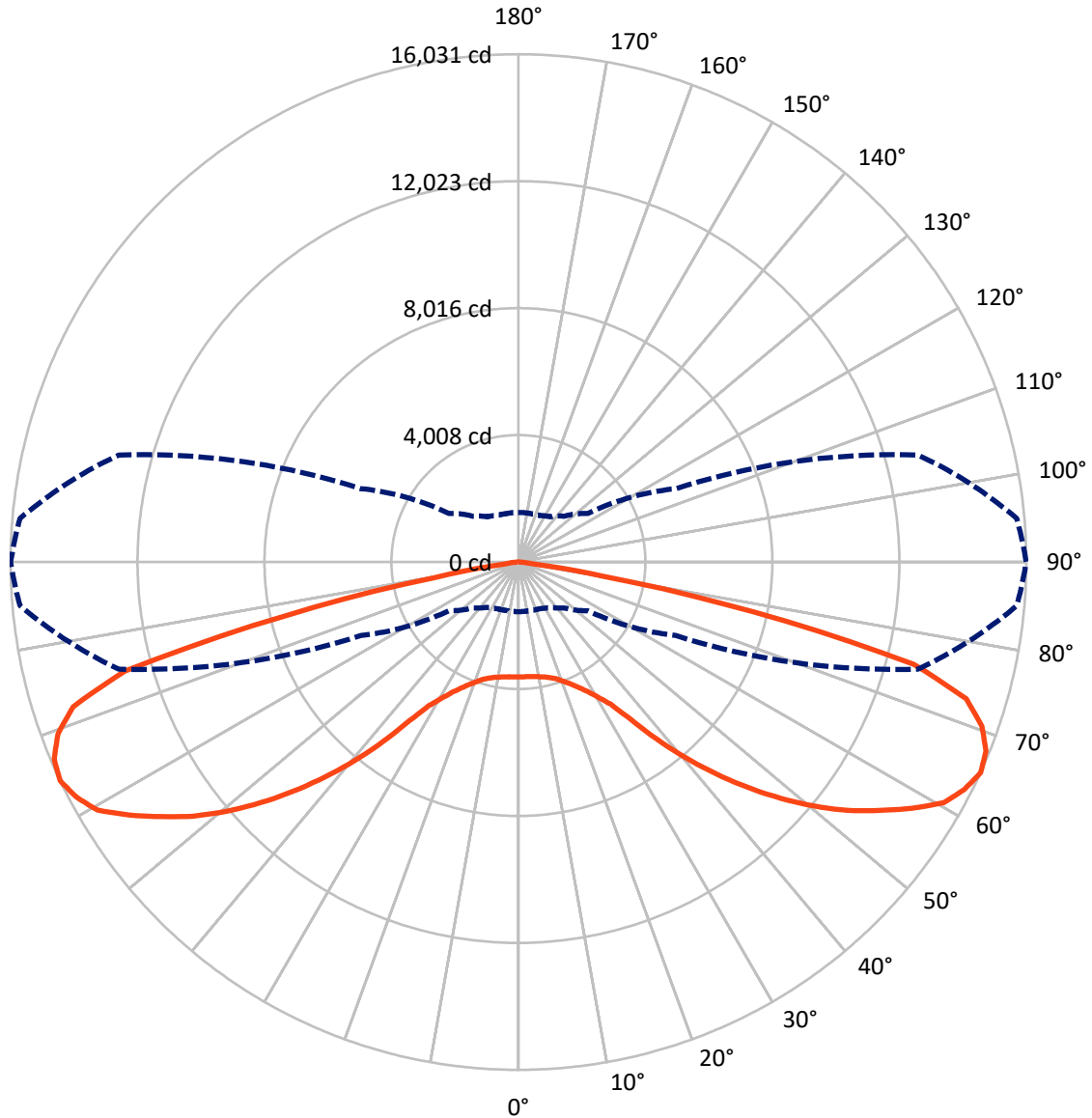
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type I - Short - N/A

REPORT NUMBER: P509963
CATALOG NUMBER: VERD-M-CA3-180-722-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509963

CATALOG NUMBER: VERD-M-CA3-180-722-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11032.0	0.0	11032.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11032.0	0.0	11032.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22064.0	0.0	22064.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.6
10°-20°	1025.8	4.6
20°-30°	1693.6	7.7
30°-40°	2481.5	11.2
40°-50°	3619.8	16.4
50°-60°	4686.4	21.2
60°-70°	4937.4	22.4
70°-80°	3013.5	13.7
80°-90°	260.5	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°	22064.0	100.0
0°-180°	22064.0	100.0



REPORT NUMBER: P509963

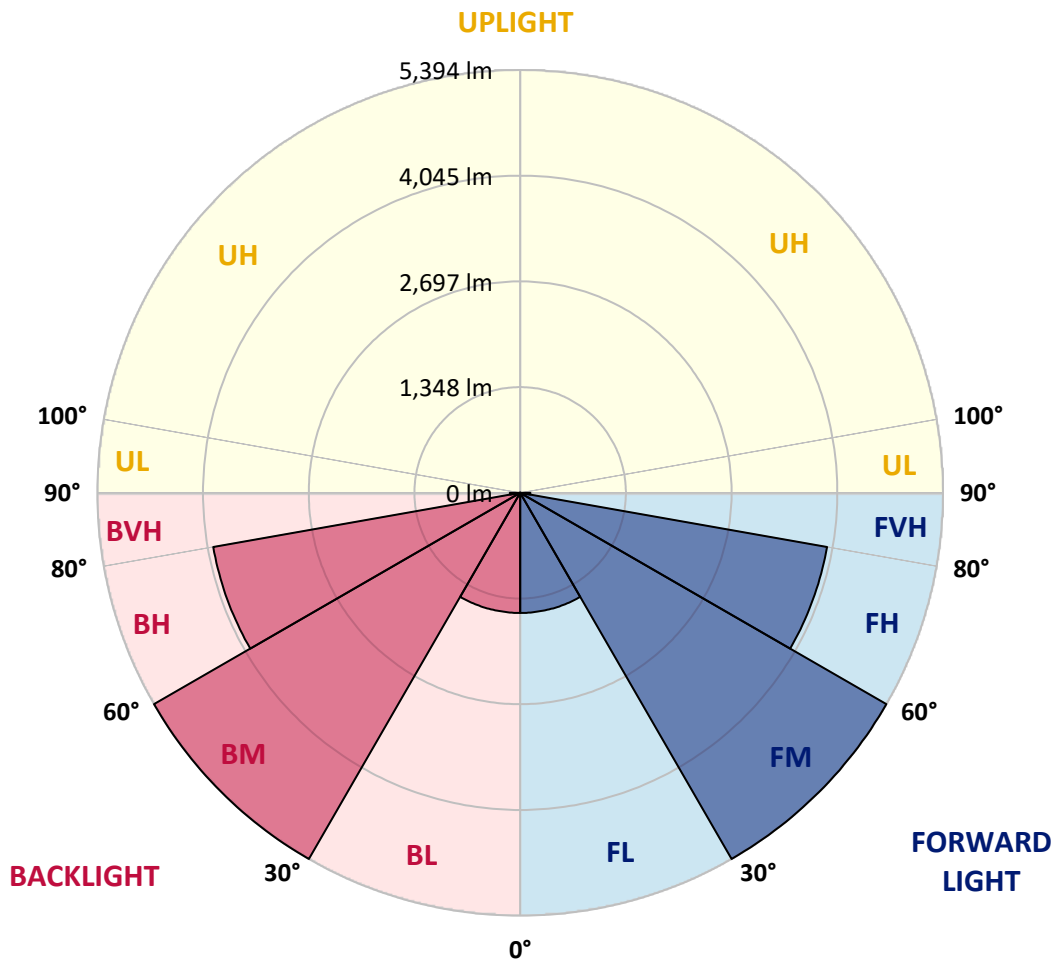
CATALOG NUMBER: VERD-M-CA3-180-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.4	6.9			
FM	(30°-60°)	5393.9	24.4			
FH	(60°-80°)	3975.5	18.0			G2/5000
FVH	(80°-90°)	130.2	0.6			G2/225
BL	(0°-30°)	1532.4	6.9	B3/2500		
BM	(30°-60°)	5393.9	24.4	B4/8500		
BH	(60°-80°)	3975.5	18.0	B4/5000		G4/5000
BVH	(80°-90°)	130.2	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: P509963

CATALOG NUMBER: VERD-M-CA3-180-722-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0
2.5°	3600.0	3629.1	3633.8	3621.6	3622.5	3620.6	3628.1	3631.0	3634.7	3629.1	3626.3
5°	3594.3	3619.7	3624.4	3618.7	3626.3	3624.4	3628.1	3634.7	3633.8	3631.9	3631.9
7.5°	3564.2	3583.0	3598.1	3594.3	3596.2	3608.4	3621.6	3643.2	3653.5	3653.5	3651.6
10°	3524.8	3544.5	3569.9	3564.2	3576.5	3601.8	3628.1	3650.7	3677.0	3682.6	3682.6
12.5°	3482.5	3509.7	3534.2	3539.8	3568.0	3597.1	3645.1	3679.8	3709.9	3723.1	3722.1
15°	3426.1	3449.6	3478.7	3499.4	3544.5	3607.5	3670.4	3724.0	3767.2	3785.1	3787.9
17.5°	3350.9	3376.3	3407.3	3450.5	3529.5	3619.7	3717.4	3789.8	3855.5	3874.3	3874.3
20°	3252.3	3279.5	3317.1	3383.8	3490.9	3631.9	3762.5	3876.2	3961.7	4005.9	4012.5
22.5°	3099.1	3129.2	3190.2	3305.8	3446.8	3630.0	3816.1	3977.7	4106.4	4163.8	4170.3
25°	2929.0	2967.5	3054.0	3206.2	3392.3	3628.1	3869.6	4092.4	4264.3	4352.6	4371.4
27.5°	2778.7	2815.3	2921.5	3109.4	3341.5	3631.9	3923.2	4223.9	4472.0	4598.8	4614.8
30°	2631.1	2664.0	2782.4	3006.1	3294.6	3636.6	3991.8	4375.2	4707.8	4901.4	4940.0
32.5°	2509.9	2542.8	2657.4	2896.1	3237.2	3646.9	4079.2	4577.2	5035.8	5325.2	5349.7
35°	2403.7	2441.3	2541.9	2785.2	3161.1	3662.0	4189.1	4842.2	5505.6	6039.4	6067.6
37.5°	2311.6	2341.7	2431.0	2667.8	3081.2	3664.8	4316.9	5153.3	6112.7	6901.1	7093.7
40°	2250.6	2271.2	2339.8	2559.7	2976.0	3641.3	4463.5	5500.9	6789.3	7901.9	8121.7
42.5°	2195.1	2213.9	2268.4	2460.1	2866.1	3596.2	4599.8	5858.0	7466.8	8924.2	9131.9
45°	2128.4	2143.4	2198.9	2375.5	2758.9	3526.7	4712.5	6188.8	8167.8	9951.3	10146.8
47.5°	2073.9	2085.2	2132.2	2299.4	2639.6	3414.8	4760.5	6488.6	8919.5	10901.3	11143.8
50°	2036.3	2032.6	2073.9	2220.5	2517.4	3258.8	4720.1	6710.3	9711.7	11852.3	12113.5
52.5°	1971.5	1975.2	2014.7	2138.7	2415.9	3066.2	4562.2	6866.3	10508.6	12720.6	13029.7
55°	1904.8	1910.4	1941.4	2053.2	2308.8	2883.0	4270.0	6887.9	11342.1	13628.3	13838.8
57.5°	1833.3	1836.2	1862.5	1961.1	2189.5	2693.2	3901.6	6750.7	12115.4	14460.9	14660.1
60°	1770.4	1771.3	1789.2	1865.3	2057.0	2488.3	3473.1	6475.4	12738.4	15099.9	15424.1
62.5°	1685.8	1685.8	1697.1	1761.0	1921.7	2276.9	3061.5	6048.8	13078.6	15566.0	15801.8
65°	1564.6	1566.5	1577.7	1619.1	1744.1	2046.6	2675.3	5485.0	13057.9	15794.3	16031.1
67.5°	1332.5	1327.8	1395.4	1463.1	1560.8	1813.6	2296.6	4931.5	12584.3	15696.6	15918.4
70°	965.1	958.5	998.0	1093.8	1329.7	1514.8	1951.7	4469.2	11223.7	15331.0	15515.2
72.5°	792.2	795.9	797.8	785.6	889.9	1226.3	1630.4	3930.7	9260.6	14210.0	14783.2
75°	626.8	617.4	627.7	637.1	665.3	718.9	1319.3	3272.9	7515.6	11915.3	12882.2
77.5°	395.6	390.0	389.0	394.7	431.3	455.7	808.1	2399.0	5229.4	7537.3	7601.2
80°	275.3	274.4	275.3	282.8	295.1	300.7	448.2	1314.6	2633.0	2744.8	2696.0
82.5°	195.5	188.9	183.2	197.3	190.8	185.1	269.7	602.3	710.4	483.9	392.8
85°	96.8	98.7	83.6	106.2	99.6	96.8	105.2	114.6	106.2	198.3	224.6
87.5°	27.3	26.3	29.1	33.8	32.9	37.6	33.8	36.6	43.2	75.2	74.2
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)