

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: P509891

Luminaire Tested: **VERD-M-CA3-160-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509891
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-CA3-160-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1000mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24742 lumens
Efficiency: N/A
Efficacy: 152.1 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

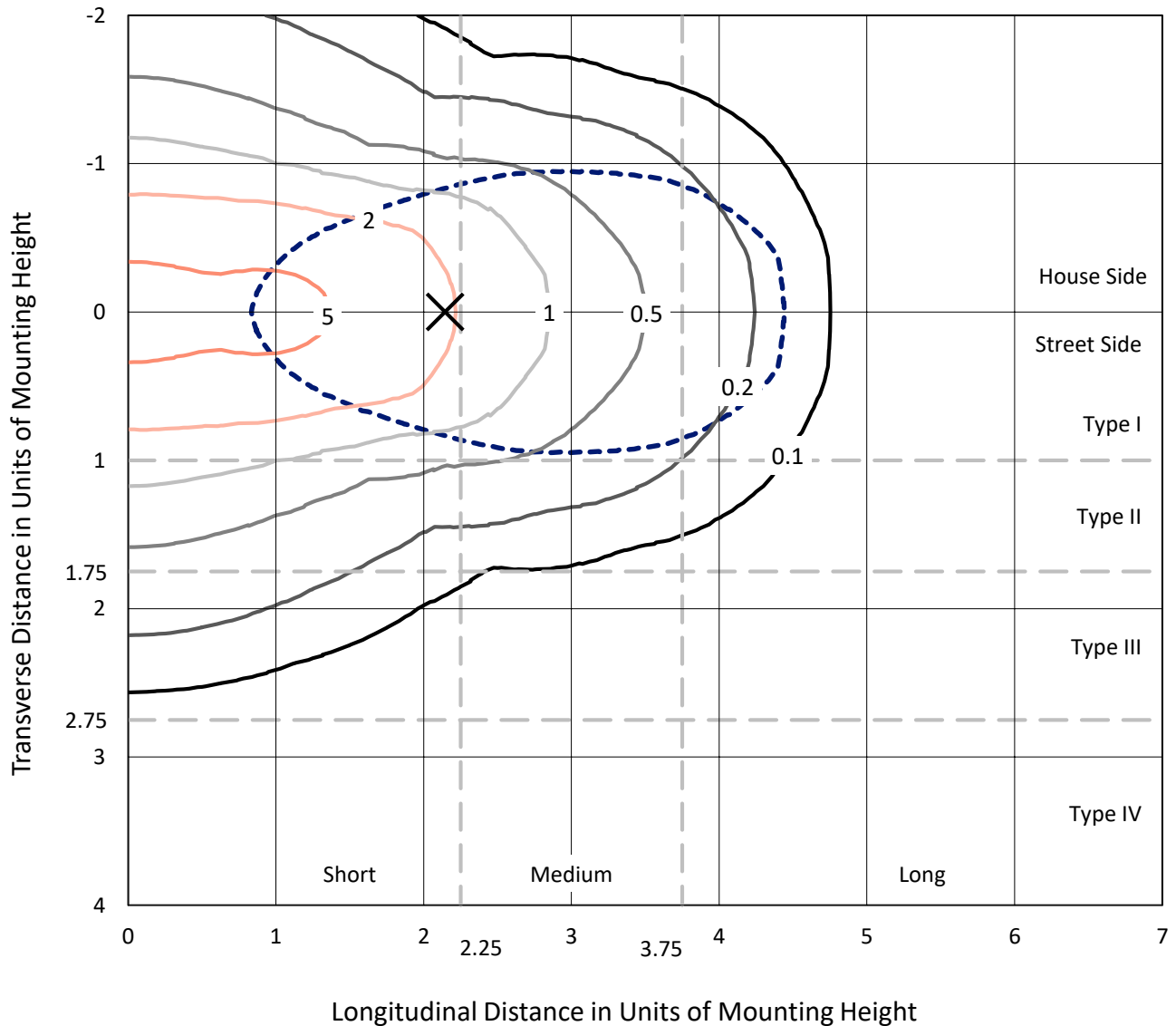
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509891
 CATALOG NUMBER: VERD-M-CA3-160-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

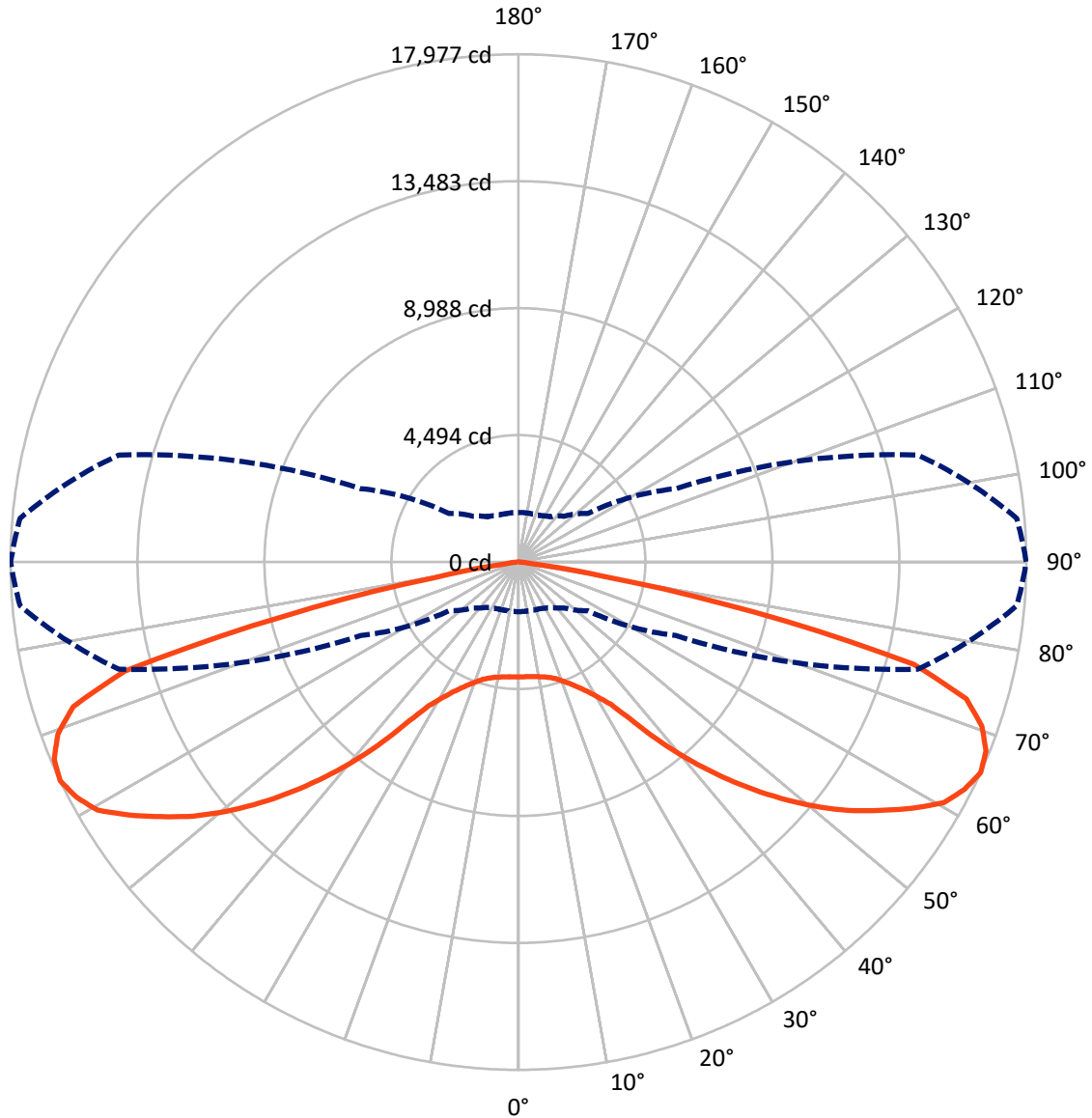
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type I - Short - N/A

REPORT NUMBER: P509891
CATALOG NUMBER: VERD-M-CA3-160-740-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509891

CATALOG NUMBER: VERD-M-CA3-160-740-U-T1

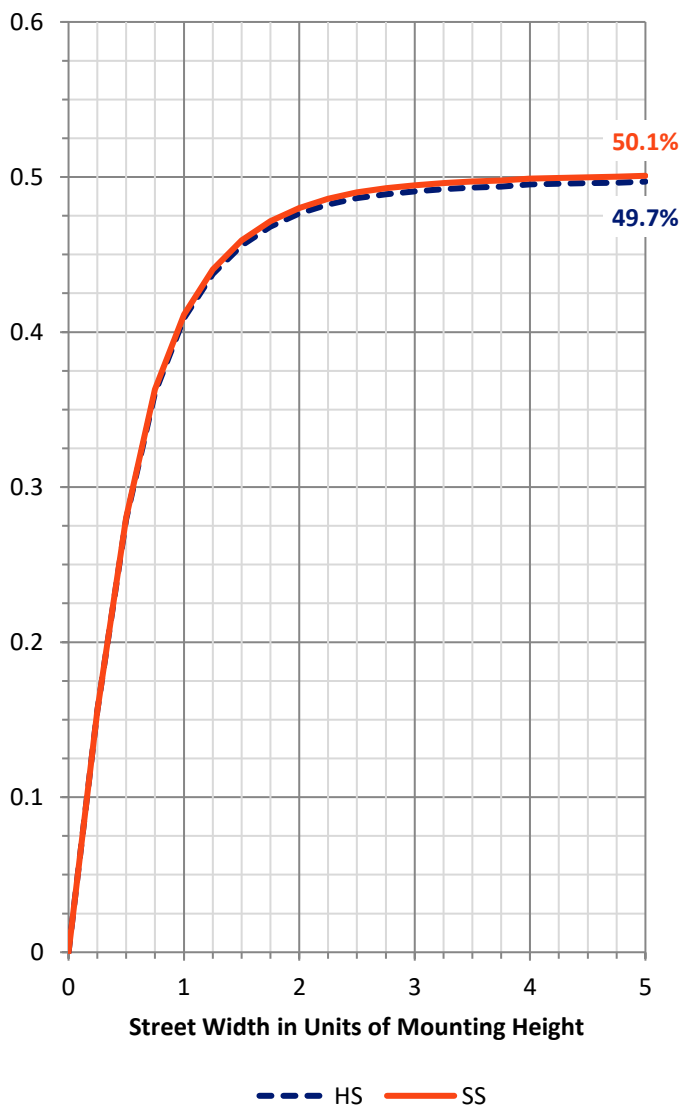
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12371.0	0.0	12371.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12371.0	0.0	12371.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24742.0	0.0	24742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	1.6
10°-20°	1150.3	4.6
20°-30°	1899.1	7.7
30°-40°	2782.7	11.2
40°-50°	4059.1	16.4
50°-60°	5255.2	21.2
60°-70°	5536.7	22.4
70°-80°	3379.3	13.7
80°-90°	292.1	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°	24742.0	100.0
0°-180°	24742.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509891

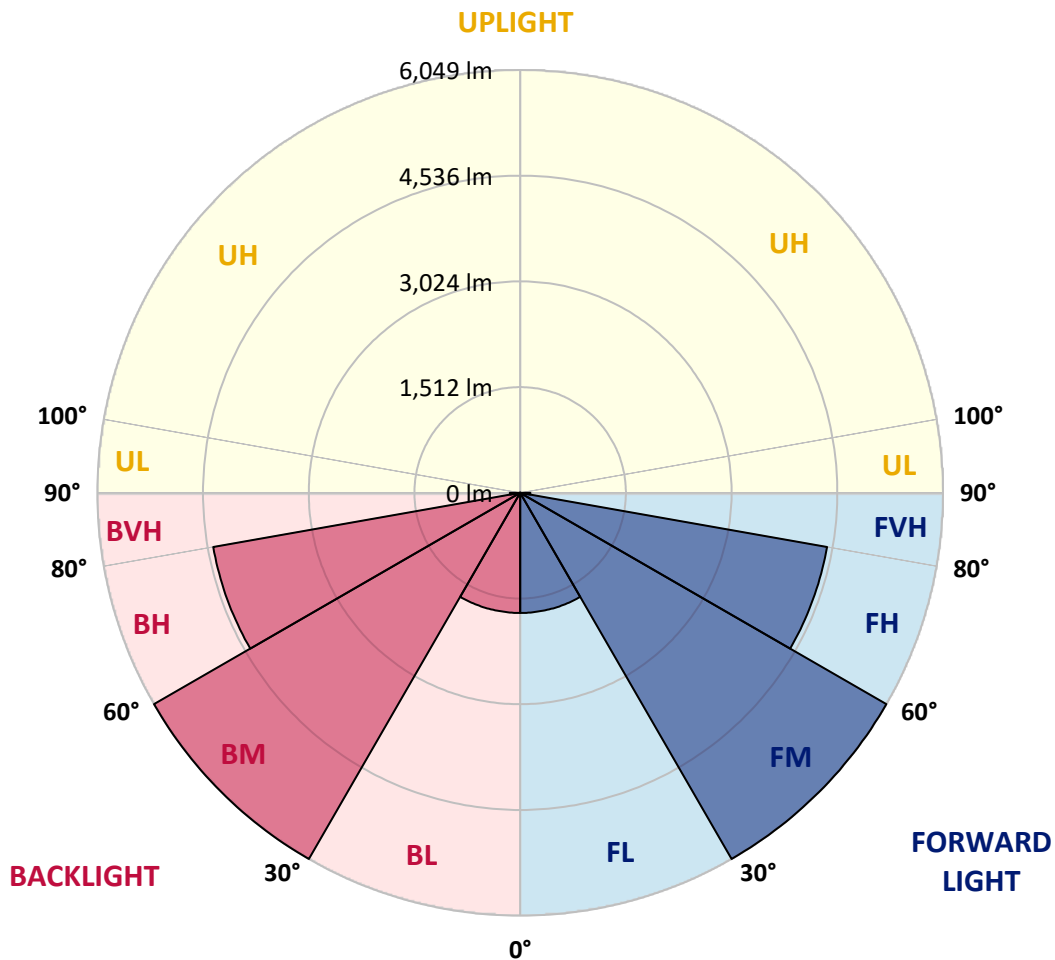
CATALOG NUMBER: VERD-M-CA3-160-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.4	6.9			
FM (30°-60°)	6048.5	24.4			
FH (60°-80°)	4458.0	18.0			G2/5000
FVH (80°-90°)	146.1	0.6			G2/225
BL (0°-30°)	1718.4	6.9	B3/2500		
BM (30°-60°)	6048.5	24.4	B4/8500		
BH (60°-80°)	4458.0	18.0	B4/5000		G4/5000
BVH (80°-90°)	146.1	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: P509891

CATALOG NUMBER: VERD-M-CA3-160-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4070.6	4070.6	4070.6	4070.6	4070.6	4070.6	4070.6	4070.6	4070.6	4070.6	4070.6
2.5°	4036.9	4069.6	4074.8	4061.1	4062.2	4060.1	4068.5	4071.7	4075.9	4069.6	4066.4
5°	4030.6	4059.0	4064.3	4058.0	4066.4	4064.3	4068.5	4075.9	4074.8	4072.7	4072.7
7.5°	3996.9	4017.9	4034.8	4030.6	4032.7	4046.4	4061.1	4085.4	4097.0	4097.0	4094.9
10°	3952.6	3974.7	4003.2	3996.9	4010.6	4039.0	4068.5	4093.8	4123.3	4129.6	4129.6
12.5°	3905.2	3935.7	3963.1	3969.5	4001.1	4033.7	4087.5	4126.5	4160.2	4174.9	4173.9
15°	3842.0	3868.3	3901.0	3924.1	3974.7	4045.3	4115.9	4176.0	4224.5	4244.5	4247.6
17.5°	3757.7	3786.1	3820.9	3869.3	3957.9	4059.0	4168.6	4249.8	4323.5	4344.6	4344.6
20°	3647.0	3677.6	3719.7	3794.5	3914.7	4072.7	4219.2	4346.7	4442.6	4492.1	4499.5
22.5°	3475.2	3509.0	3577.5	3707.1	3865.1	4070.6	4279.3	4460.5	4604.9	4669.1	4676.5
25°	3284.5	3327.7	3424.7	3595.4	3804.0	4068.5	4339.3	4589.1	4781.9	4880.9	4902.0
27.5°	3115.9	3157.0	3276.1	3486.8	3747.1	4072.7	4399.4	4736.6	5014.8	5157.0	5174.9
30°	2950.5	2987.4	3120.1	3370.9	3694.4	4078.0	4476.3	4906.2	5279.3	5496.3	5539.5
32.5°	2814.6	2851.4	2980.0	3247.6	3630.1	4089.6	4574.3	5132.8	5647.0	5971.6	5999.0
35°	2695.5	2737.6	2850.4	3123.3	3544.8	4106.4	4697.6	5429.9	6173.9	6772.4	6804.0
37.5°	2592.2	2625.9	2726.0	2991.6	3455.2	4109.6	4840.9	5778.7	6854.6	7738.7	7954.7
40°	2523.7	2546.9	2623.8	2870.4	3337.2	4083.3	5005.3	6168.6	7613.3	8860.9	9107.5
42.5°	2461.5	2482.6	2543.7	2758.7	3213.9	4032.7	5158.1	6569.0	8373.1	10007.4	10240.3
45°	2386.7	2403.6	2465.8	2663.9	3093.8	3954.7	5284.5	6940.0	9159.1	11159.2	11378.3
47.5°	2325.6	2338.3	2390.9	2578.5	2960.0	3829.3	5338.3	7276.1	10002.1	12224.5	12496.4
50°	2283.5	2279.2	2325.6	2490.0	2823.0	3654.4	5293.0	7524.8	10890.4	13290.9	13583.8
52.5°	2210.8	2215.0	2259.2	2398.3	2709.2	3438.4	5115.9	7699.7	11784.0	14264.5	14611.2
55°	2135.9	2142.3	2177.0	2302.4	2589.1	3232.9	4788.2	7723.9	12718.7	15282.5	15518.5
57.5°	2055.9	2059.0	2088.5	2199.2	2455.2	3020.0	4375.1	7570.1	13585.9	16216.1	16439.5
60°	1985.3	1986.3	2006.3	2091.7	2306.6	2790.3	3894.6	7261.4	14284.6	16932.6	17296.2
62.5°	1890.4	1890.4	1903.1	1974.7	2154.9	2553.2	3433.1	6783.0	14666.0	17455.3	17719.8
65°	1754.5	1756.6	1769.2	1815.6	1955.7	2295.1	3000.0	6150.7	14642.8	17711.3	17976.9
67.5°	1494.2	1488.9	1564.8	1640.7	1750.3	2033.7	2575.4	5530.1	14111.7	17601.7	17850.4
70°	1082.2	1074.8	1119.1	1226.6	1491.0	1698.6	2188.6	5011.6	12585.9	17191.8	17398.4
72.5°	888.3	892.5	894.6	880.9	997.9	1375.1	1828.2	4407.8	10384.7	15934.7	16577.5
75°	702.8	692.3	703.9	714.4	746.1	806.1	1479.5	3670.2	8427.8	13361.5	14445.8
77.5°	443.6	437.3	436.3	442.6	483.7	511.1	906.2	2690.2	5864.1	8452.1	8523.7
80°	308.7	307.7	308.7	317.2	330.9	337.2	502.6	1474.2	2952.6	3078.0	3023.2
82.5°	219.2	211.8	205.5	221.3	213.9	207.6	302.4	675.5	796.6	542.7	440.5
85°	108.5	110.6	93.8	119.1	111.7	108.5	118.0	128.6	119.1	222.3	251.8
87.5°	30.6	29.5	32.7	37.9	36.9	42.1	37.9	41.1	48.5	84.3	83.2
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)