

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: P509995

Luminaire Tested: **VERD-M-CA3-180-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509995
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-CA3-180-750-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1120mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27569 lumens
Efficiency: N/A
Efficacy: 150.6 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

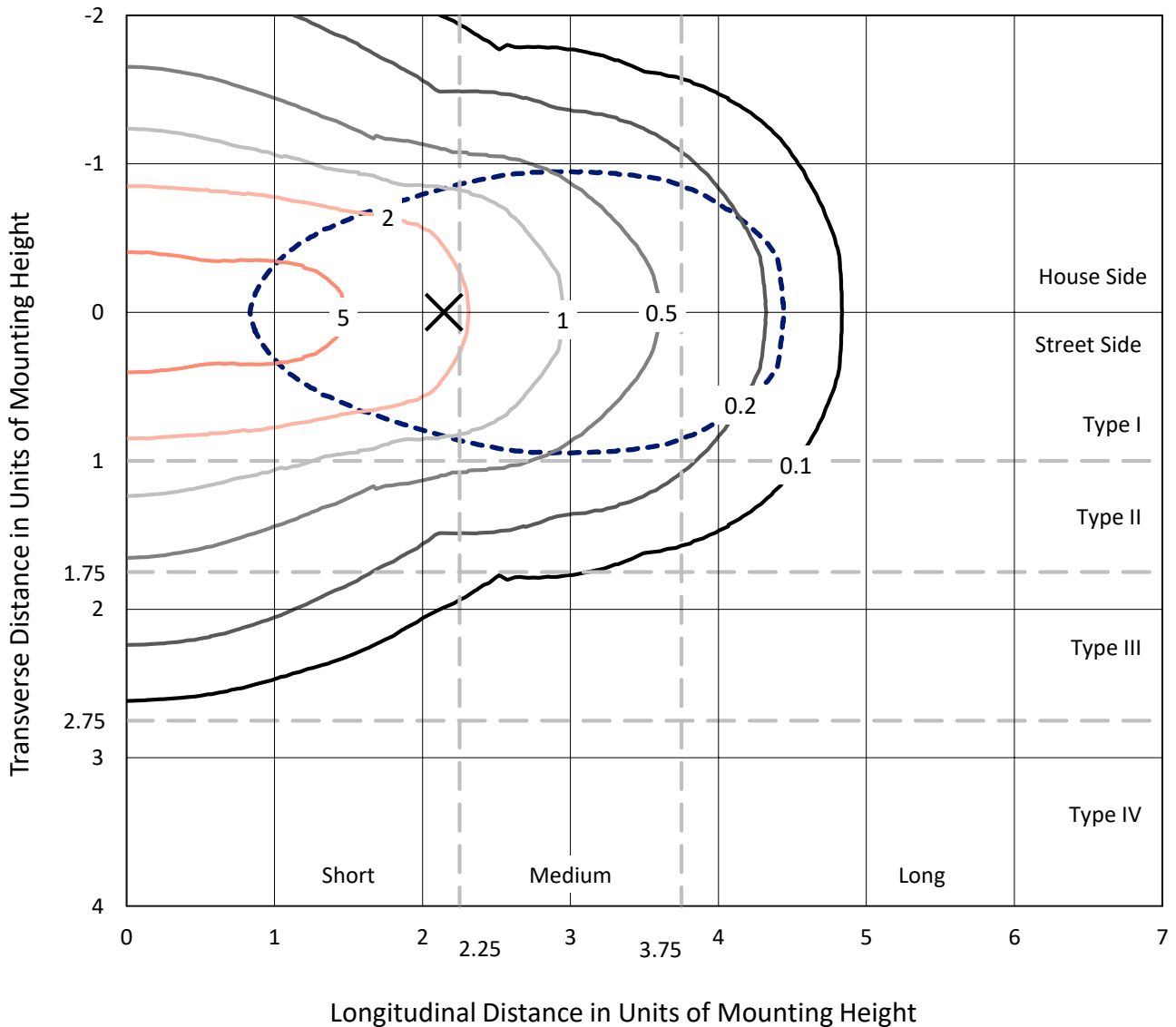
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

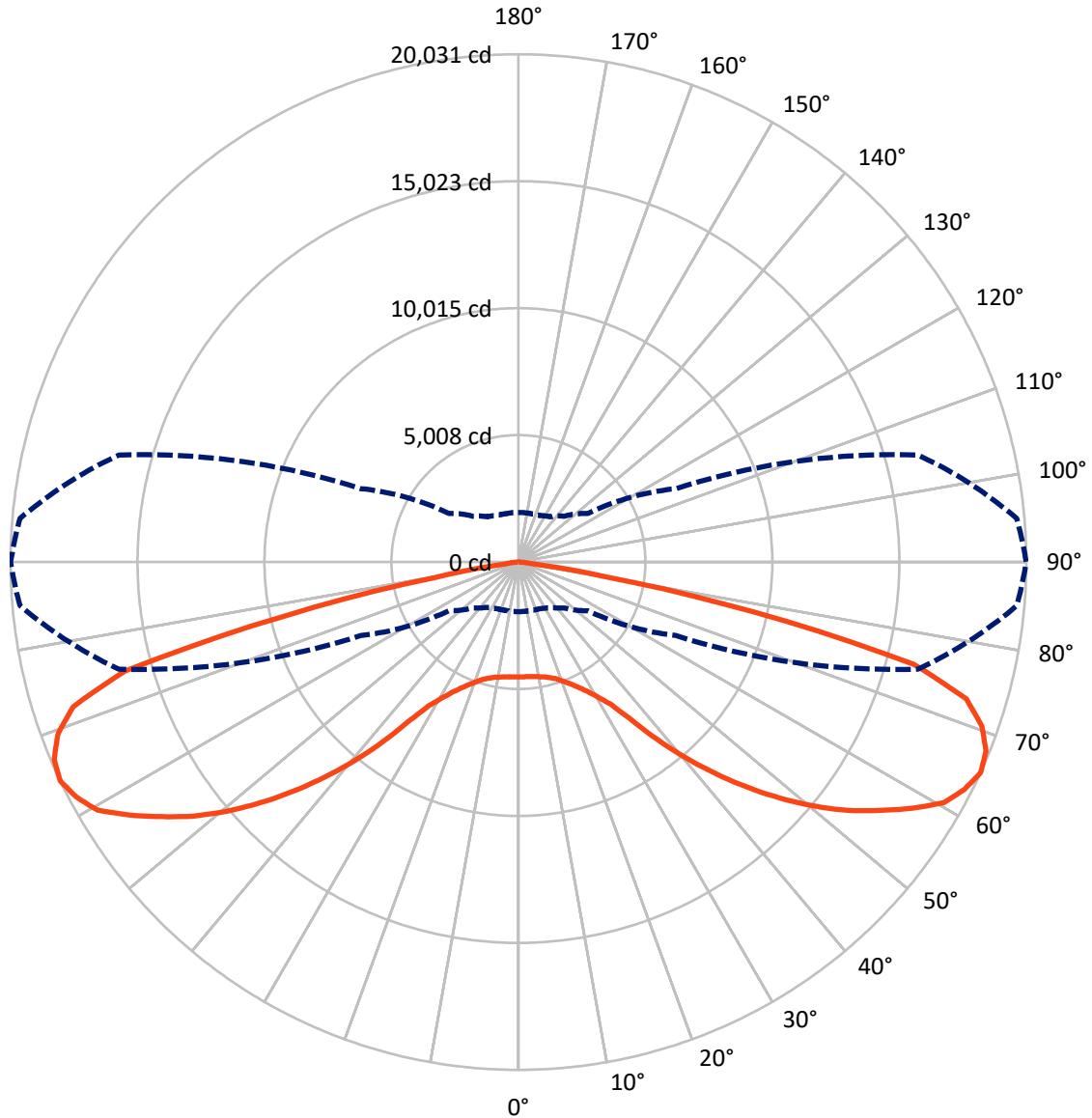
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type I - Short - N/A

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CATALOG NUMBER: VERD-M-CA3-180-750-U-T1

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	13784.5	0.0	13784.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13784.5	0.0	13784.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27569.0	0.0	27569.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	1.6
10°-20°	1281.8	4.6
20°-30°	2116.1	7.7
30°-40°	3100.7	11.2
40°-50°	4522.9	16.4
50°-60°	5855.7	21.2
60°-70°	6169.3	22.4
70°-80°	3765.4	13.7
80°-90°	325.5	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°	27569.0	100.0
0°-180°	27569.0	100.0



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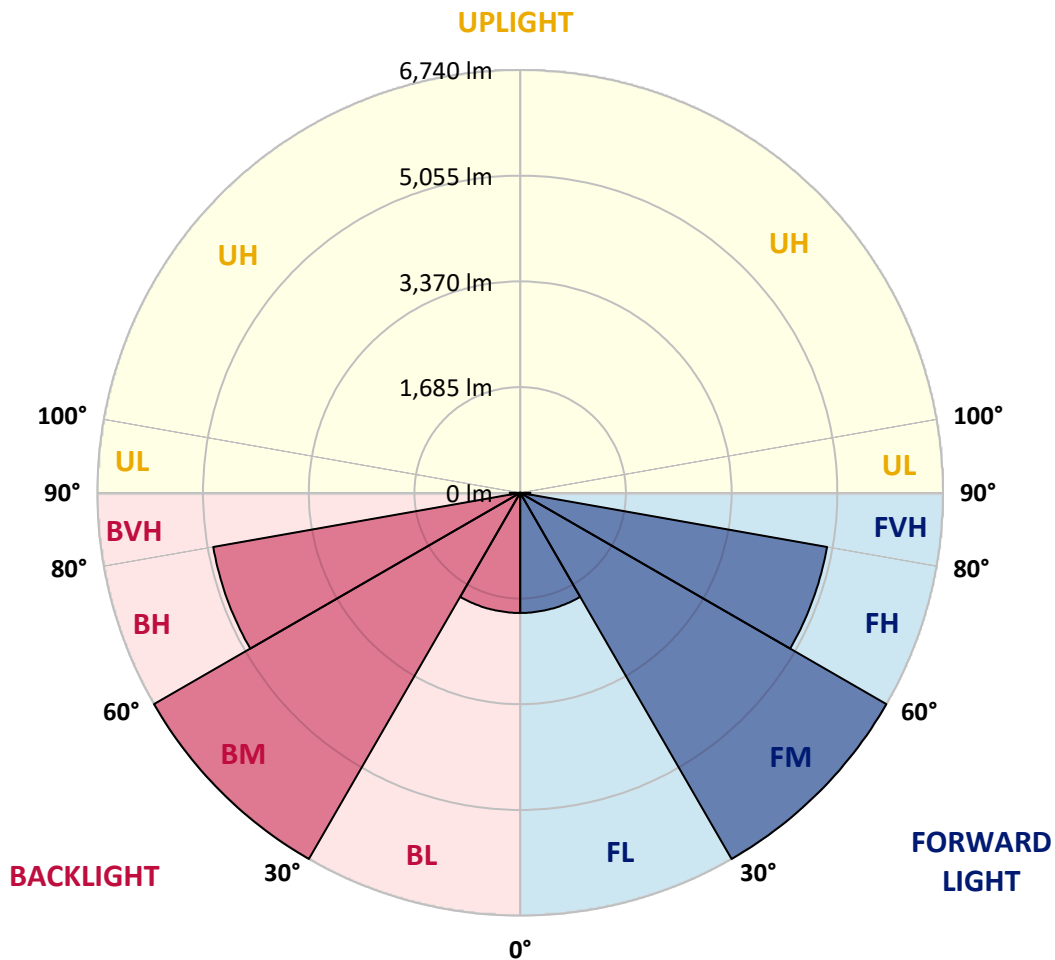
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1914.8	6.9			
FM (30°-60°)	6739.6	24.4			
FH (60°-80°)	4967.4	18.0			G2/5000
FVH (80°-90°)	162.8	0.6			G2/225
BL (0°-30°)	1914.8	6.9	B3/2500		
BM (30°-60°)	6739.6	24.4	B4/8500		
BH (60°-80°)	4967.4	18.0	B4/5000		G4/5000
BVH (80°-90°)	162.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7	4535.7
2.5°	4498.1	4534.5	4540.4	4525.2	4526.3	4524.0	4533.4	4536.9	4541.6	4534.5	4531.0
5°	4491.1	4522.8	4528.7	4521.6	4531.0	4528.7	4533.4	4541.6	4540.4	4538.1	4538.1
7.5°	4453.5	4477.0	4495.8	4491.1	4493.5	4508.7	4525.2	4552.2	4565.1	4565.1	4562.7
10°	4404.2	4428.9	4460.6	4453.5	4468.8	4500.5	4533.4	4561.6	4594.4	4601.5	4601.5
12.5°	4351.4	4385.4	4416.0	4423.0	4458.2	4494.6	4554.5	4597.9	4635.5	4652.0	4650.8
15°	4280.9	4310.3	4346.7	4372.5	4428.9	4507.5	4586.2	4653.1	4707.1	4729.5	4733.0
17.5°	4187.0	4218.7	4257.4	4311.5	4410.1	4522.8	4644.9	4735.3	4817.5	4841.0	4841.0
20°	4063.7	4097.8	4144.7	4228.1	4361.9	4538.1	4701.3	4843.3	4950.2	5005.4	5013.6
22.5°	3872.3	3909.9	3986.2	4130.6	4306.8	4535.7	4768.2	4970.2	5131.0	5202.6	5210.9
25°	3659.8	3707.9	3816.0	4006.2	4238.7	4533.4	4835.1	5113.4	5328.3	5438.6	5462.1
27.5°	3471.9	3517.7	3650.4	3885.2	4175.3	4538.1	4902.1	5277.8	5587.8	5746.3	5766.2
30°	3287.6	3328.7	3476.6	3756.1	4116.6	4543.9	4987.8	5466.8	5882.5	6124.3	6172.5
32.5°	3136.1	3177.2	3320.5	3618.7	4044.9	4556.9	5097.0	5719.3	6292.2	6653.9	6684.4
35°	3003.5	3050.4	3176.1	3480.2	3949.8	4575.6	5234.3	6050.4	6879.3	7546.2	7581.5
37.5°	2888.4	2926.0	3037.5	3333.4	3850.0	4579.2	5394.0	6439.0	7637.8	8622.9	8863.6
40°	2812.1	2837.9	2923.6	3198.4	3718.5	4549.8	5577.2	6873.4	8483.2	9873.4	10148.1
42.5°	2742.8	2766.3	2834.4	3073.9	3581.1	4493.5	5747.4	7319.6	9329.8	11150.8	11410.3
45°	2659.4	2678.2	2747.5	2968.2	3447.3	4406.6	5888.3	7732.9	10205.7	12434.2	12678.4
47.5°	2591.3	2605.4	2664.1	2873.1	3298.2	4266.8	5948.2	8107.5	11145.0	13621.2	13924.2
50°	2544.4	2539.7	2591.3	2774.5	3145.5	4071.9	5897.7	8384.6	12134.8	14809.5	15135.9
52.5°	2463.4	2468.1	2517.4	2672.4	3018.7	3831.2	5700.5	8579.5	13130.5	15894.4	16280.7
55°	2380.0	2387.0	2425.8	2565.5	2884.9	3602.3	5335.3	8606.5	14171.9	17028.6	17291.6
57.5°	2290.8	2294.3	2327.2	2450.4	2735.8	3365.1	4875.0	8435.1	15138.2	18068.9	18317.8
60°	2212.1	2213.3	2235.6	2330.7	2570.2	3109.1	4339.6	8091.0	15916.7	18867.3	19272.4
62.5°	2106.4	2106.4	2120.5	2200.3	2401.1	2845.0	3825.4	7558.0	16341.7	19449.7	19744.4
65°	1955.0	1957.3	1971.4	2023.1	2179.2	2557.3	3342.8	6853.5	16315.9	19735.0	20030.9
67.5°	1664.9	1659.1	1743.6	1828.1	1950.3	2266.1	2869.6	6161.9	15724.1	19612.9	19890.0
70°	1205.8	1197.6	1246.9	1366.7	1661.4	1892.7	2438.7	5584.2	14024.0	19156.2	19386.3
72.5°	989.8	994.5	996.8	981.6	1111.9	1532.3	2037.1	4911.4	11571.2	17755.4	18471.6
75°	783.2	771.4	784.3	796.1	831.3	898.2	1648.5	4089.5	9390.8	14888.2	16096.3
77.5°	494.3	487.3	486.1	493.1	538.9	569.5	1009.8	2997.6	6534.1	9417.8	9497.7
80°	344.0	342.9	344.0	353.4	368.7	375.7	560.1	1642.6	3290.0	3429.7	3368.6
82.5°	244.2	236.0	229.0	246.6	238.4	231.3	337.0	752.6	887.7	604.7	490.8
85°	120.9	123.3	104.5	132.7	124.5	120.9	131.5	143.2	132.7	247.7	280.6
87.5°	34.1	32.9	36.4	42.3	41.1	47.0	42.3	45.8	54.0	93.9	92.8
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)