

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: P510051

Luminaire Tested: **VERD-M-CA4-190-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510051
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-CA4-190-760-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 870mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29240 lumens
Efficiency: N/A
Efficacy: 151.4 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

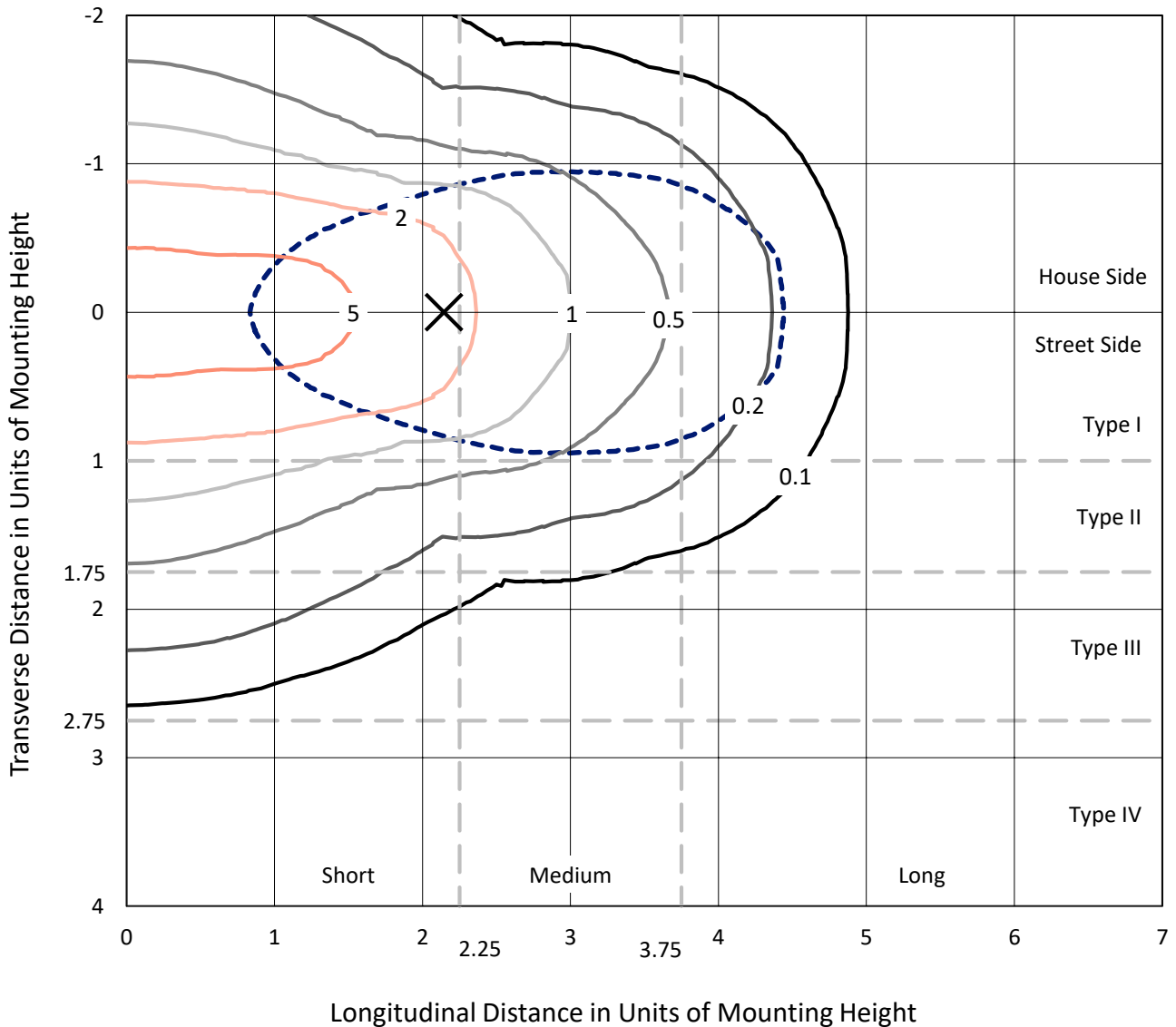
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510051
 CATALOG NUMBER: VERD-M-CA4-190-760-U-T1

Iso-Footcandle Lines of Horizontal Illumination

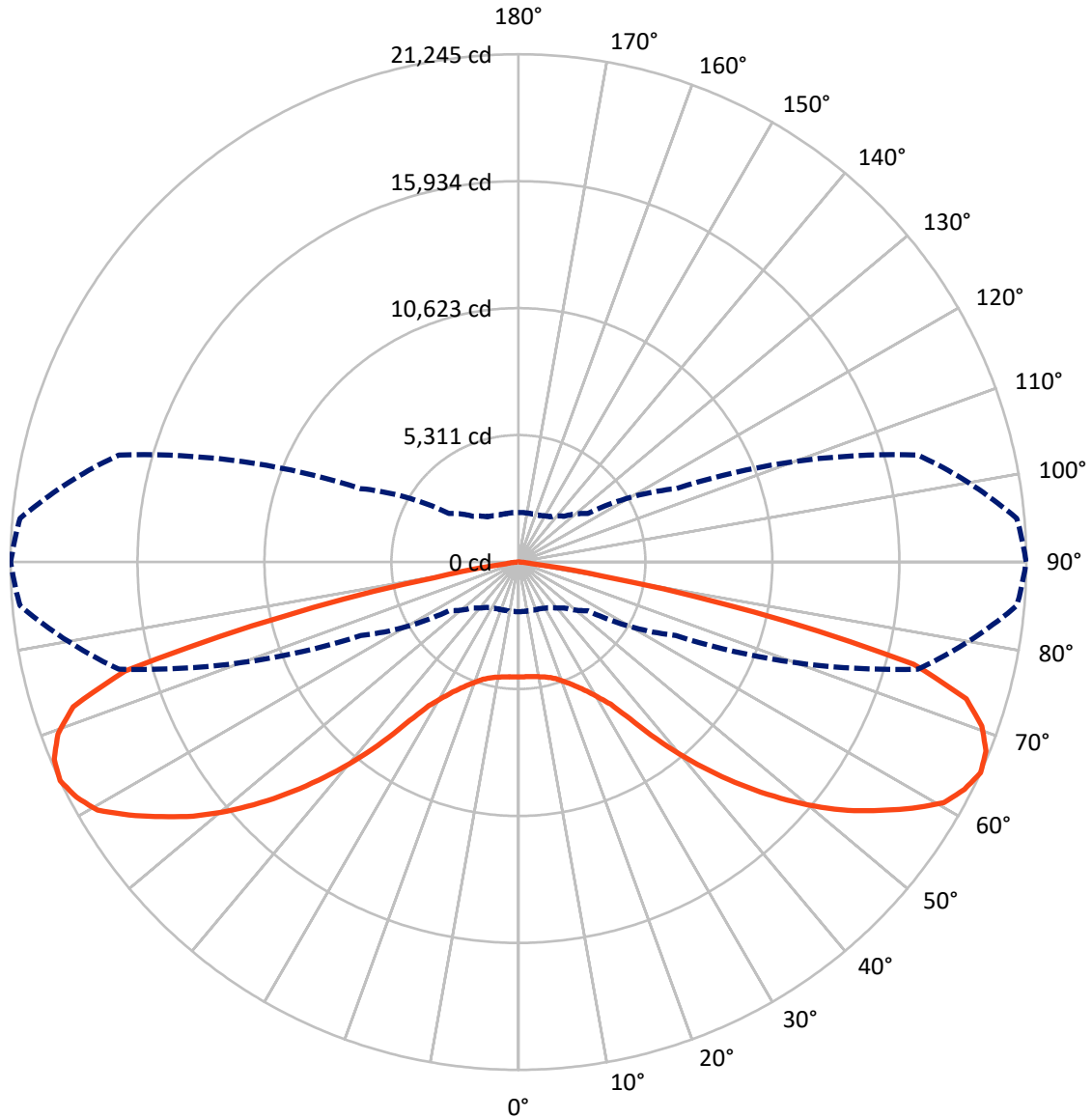
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type I - Short - N/A

REPORT NUMBER: P510051
CATALOG NUMBER: VERD-M-CA4-190-760-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510051

CATALOG NUMBER: VERD-M-CA4-190-760-U-T1

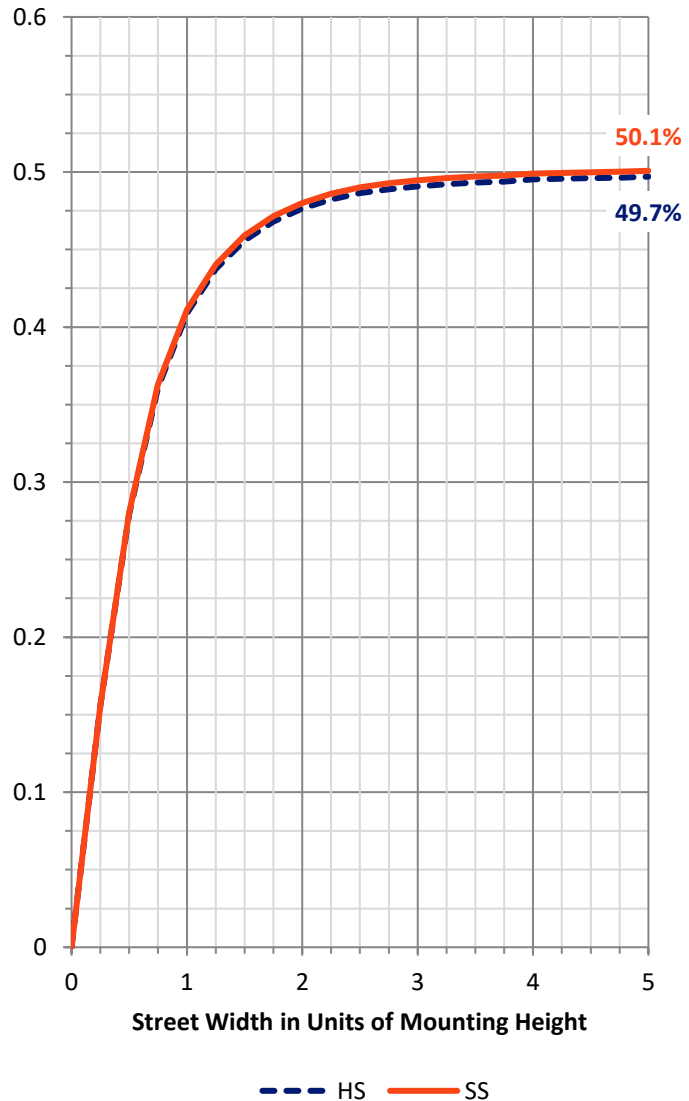
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14620.0	0.0	14620.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14620.0	0.0	14620.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29240.0	0.0	29240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.8	1.6
10°-20°	1359.4	4.6
20°-30°	2244.4	7.7
30°-40°	3288.6	11.2
40°-50°	4797.0	16.4
50°-60°	6210.6	21.2
60°-70°	6543.3	22.4
70°-80°	3993.6	13.7
80°-90°	345.2	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°	29240.0	100.0
0°-180°	29240.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510051

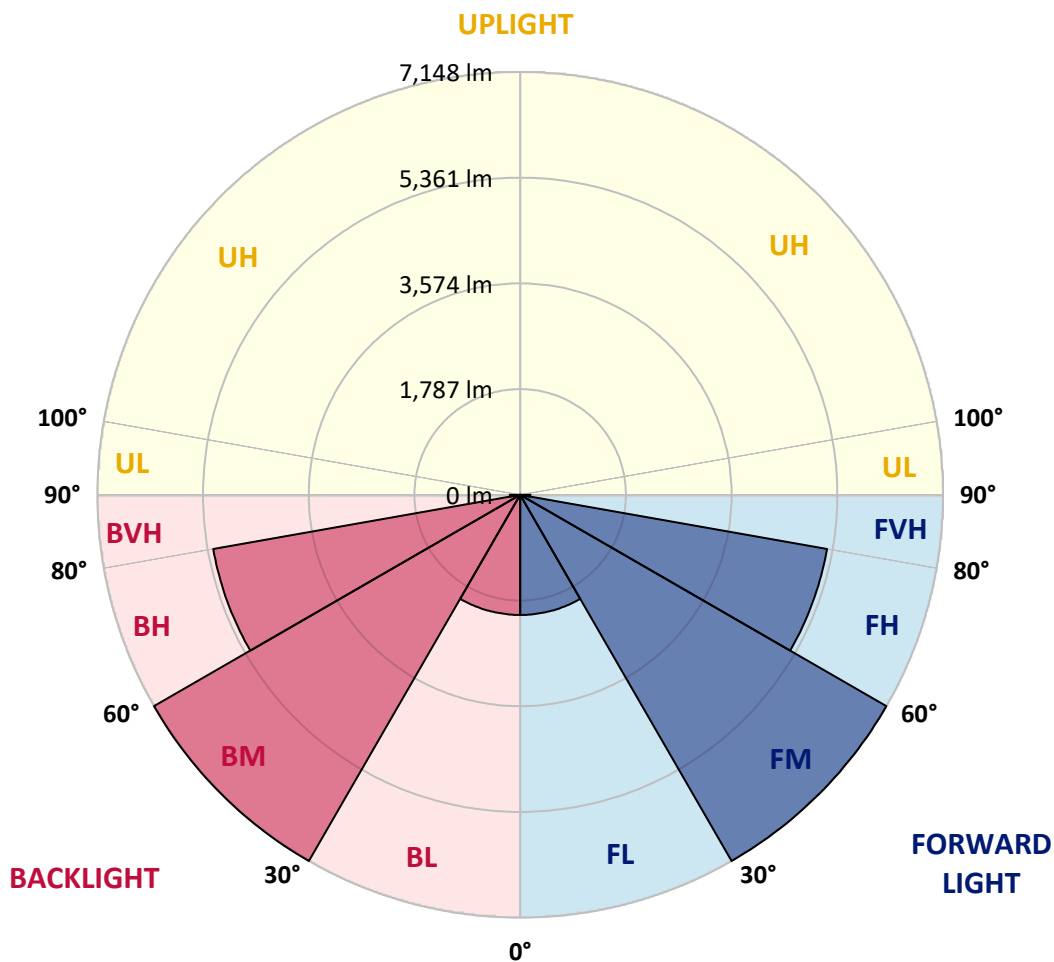
CATALOG NUMBER: VERD-M-CA4-190-760-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2030.8	6.9			
FM (30°-60°)	7148.1	24.4			
FH (60°-80°)	5268.4	18.0			G3/7500
FVH (80°-90°)	172.6	0.6			G2/225
BL (0°-30°)	2030.8	6.9	B3/2500		
BM (30°-60°)	7148.1	24.4	B4/8500		
BH (60°-80°)	5268.4	18.0	B5		G5
BVH (80°-90°)	172.6	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: P510051

CATALOG NUMBER: VERD-M-CA4-190-760-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4810.6	4810.6	4810.6	4810.6	4810.6	4810.6	4810.6	4810.6	4810.6	4810.6	4810.6
2.5°	4770.8	4809.4	4815.6	4799.4	4800.7	4798.2	4808.1	4811.9	4816.9	4809.4	4805.7
5°	4763.3	4796.9	4803.2	4795.7	4805.7	4803.2	4808.1	4816.9	4815.6	4813.1	4813.1
7.5°	4723.5	4748.4	4768.3	4763.3	4765.8	4782.0	4799.4	4828.1	4841.8	4841.8	4839.3
10°	4671.2	4697.3	4730.9	4723.5	4739.7	4773.3	4808.1	4838.0	4872.9	4880.4	4880.4
12.5°	4615.1	4651.2	4683.6	4691.1	4728.4	4767.1	4830.6	4876.6	4916.5	4933.9	4932.7
15°	4540.4	4571.5	4610.1	4637.5	4697.3	4780.7	4864.2	4935.2	4992.5	5016.1	5019.8
17.5°	4440.8	4474.4	4515.5	4572.8	4677.4	4796.9	4926.5	5022.3	5109.5	5134.4	5134.4
20°	4310.0	4346.1	4395.9	4484.4	4626.3	4813.1	4986.2	5136.9	5250.2	5308.8	5317.5
22.5°	4107.0	4146.9	4227.8	4381.0	4567.8	4810.6	5057.2	5271.4	5442.0	5518.0	5526.7
25°	3881.6	3932.7	4047.3	4249.0	4495.6	4808.1	5128.2	5423.3	5651.2	5768.3	5793.2
27.5°	3682.4	3731.0	3871.7	4120.7	4428.3	4813.1	5199.2	5597.7	5926.4	6094.6	6115.7
30°	3486.9	3530.5	3687.4	3983.8	4366.1	4819.4	5290.1	5798.2	6239.0	6495.5	6546.6
32.5°	3326.2	3369.8	3521.7	3838.0	4290.1	4833.1	5405.9	6065.9	6673.6	7057.2	7089.6
35°	3185.5	3235.3	3368.6	3691.1	4189.2	4853.0	5551.6	6417.1	7296.3	8003.6	8041.0
37.5°	3063.5	3103.3	3221.6	3535.4	4083.4	4856.7	5721.0	6829.3	8100.7	9145.6	9400.9
40°	2982.5	3009.9	3100.8	3392.2	3943.9	4825.6	5915.2	7290.1	8997.4	10471.8	10763.2
42.5°	2909.0	2934.0	3006.2	3260.2	3798.2	4765.8	6095.8	7763.3	9895.2	11826.7	12101.9
45°	2820.6	2840.6	2914.0	3148.1	3656.2	4673.7	6245.2	8201.6	10824.2	13187.8	13446.9
47.5°	2748.4	2763.3	2825.6	3047.3	3498.1	4525.5	6308.7	8598.9	11820.5	14446.9	14768.1
50°	2698.6	2693.6	2748.4	2942.7	3336.2	4318.7	6255.2	8892.8	12870.3	15707.1	16053.3
52.5°	2612.7	2617.6	2669.9	2834.3	3201.7	4063.5	6046.0	9099.5	13926.3	16857.8	17267.5
55°	2524.2	2531.7	2572.8	2721.0	3059.7	3820.6	5658.7	9128.1	15030.9	18060.7	18339.7
57.5°	2429.6	2433.3	2468.2	2599.0	2901.6	3569.1	5170.5	8946.3	16055.8	19164.1	19428.1
60°	2346.2	2347.4	2371.1	2471.9	2726.0	3297.6	4602.7	8581.4	16881.4	20010.9	20440.5
62.5°	2234.1	2234.1	2249.0	2333.7	2546.7	3017.4	4057.2	8016.1	17332.2	20628.6	20941.2
65°	2073.4	2075.9	2090.9	2145.7	2311.3	2712.3	3545.4	7268.9	17304.8	20931.2	21245.0
67.5°	1765.9	1759.6	1849.3	1938.9	2068.5	2403.5	3043.5	6535.4	16677.2	20801.7	21095.6
70°	1278.9	1270.2	1322.5	1449.5	1762.1	2007.4	2586.5	5922.7	14874.0	20317.3	20561.3
72.5°	1049.8	1054.8	1057.3	1041.1	1179.3	1625.1	2160.6	5209.1	12272.5	18831.6	19591.2
75°	830.6	818.2	831.9	844.3	881.7	952.7	1748.4	4337.4	9960.0	15790.5	17072.0
77.5°	524.3	516.8	515.6	523.0	571.6	604.0	1071.0	3179.3	6930.2	9988.6	10073.3
80°	364.9	363.6	364.9	374.8	391.0	398.5	594.0	1742.2	3489.4	3637.6	3572.8
82.5°	259.0	250.3	242.8	261.5	252.8	245.3	357.4	798.2	941.5	641.3	520.5
85°	128.3	130.8	110.8	140.7	132.0	128.3	139.5	151.9	140.7	262.8	297.6
87.5°	36.1	34.9	38.6	44.8	43.6	49.8	44.8	48.6	57.3	99.6	98.4
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)