

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: P510131

Luminaire Tested: **VERD-M-CA4-210-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510131
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-CA4-210-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 960mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31948 lumens
Efficiency: N/A
Efficacy: 149.6 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

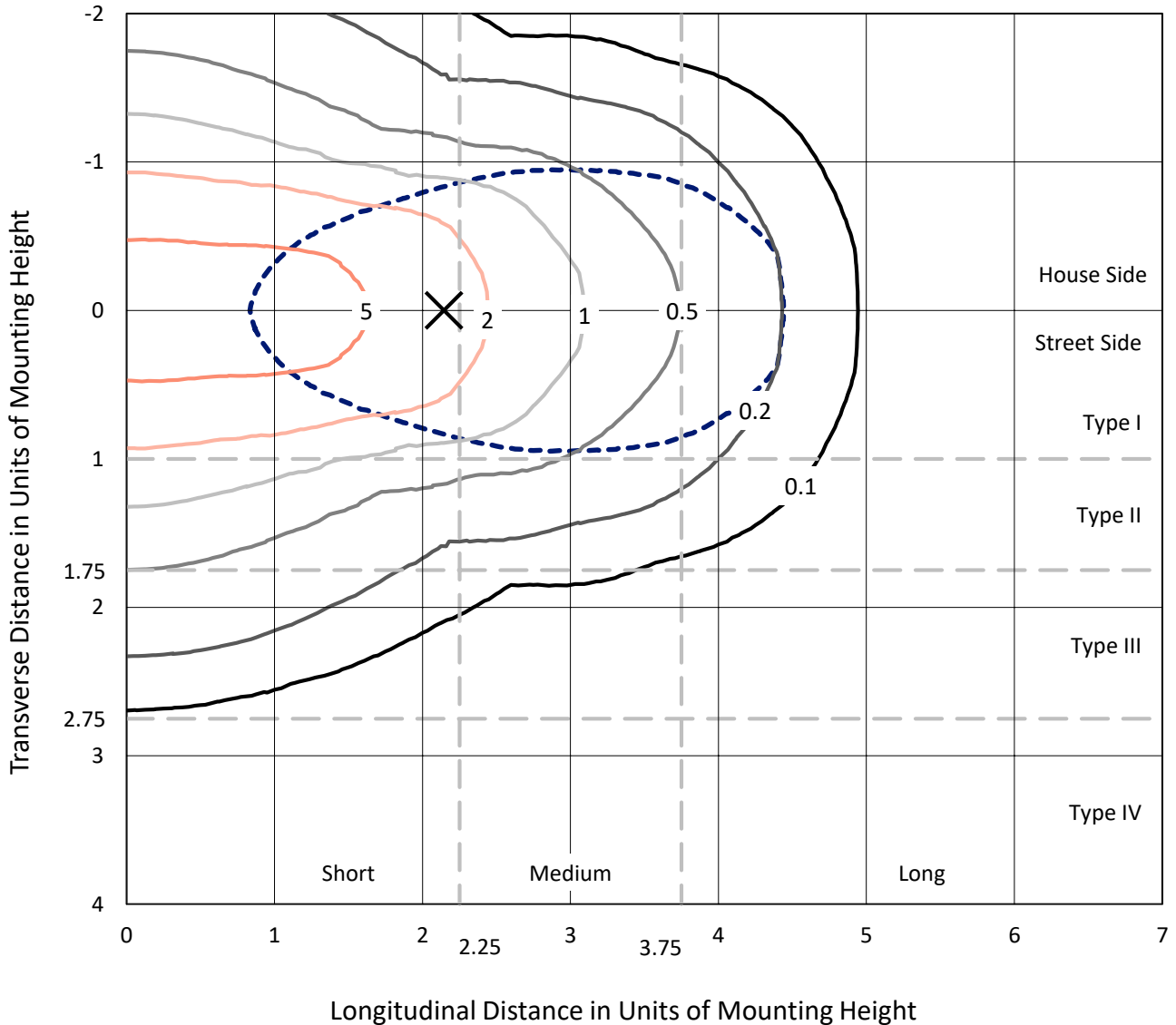
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

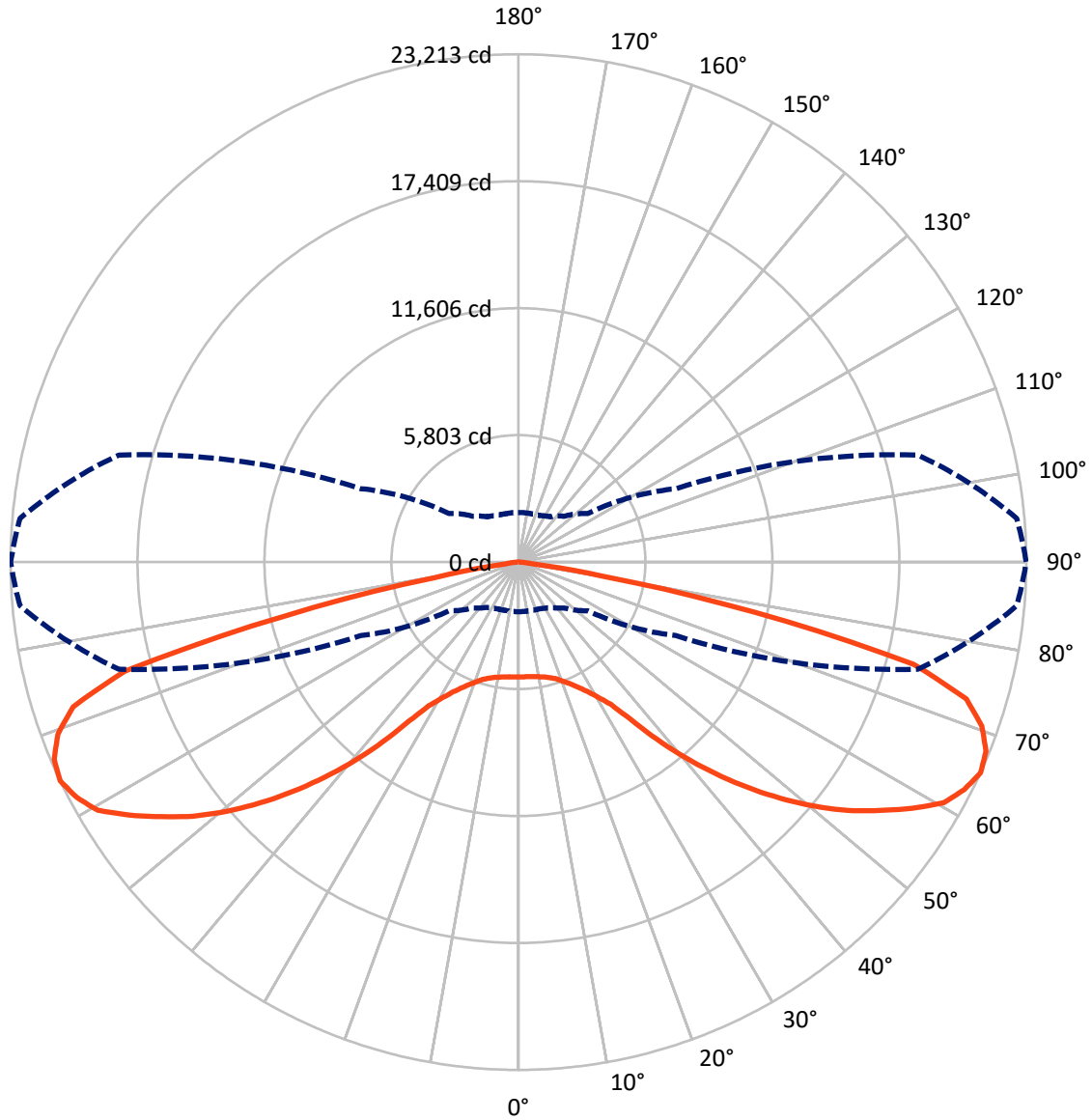
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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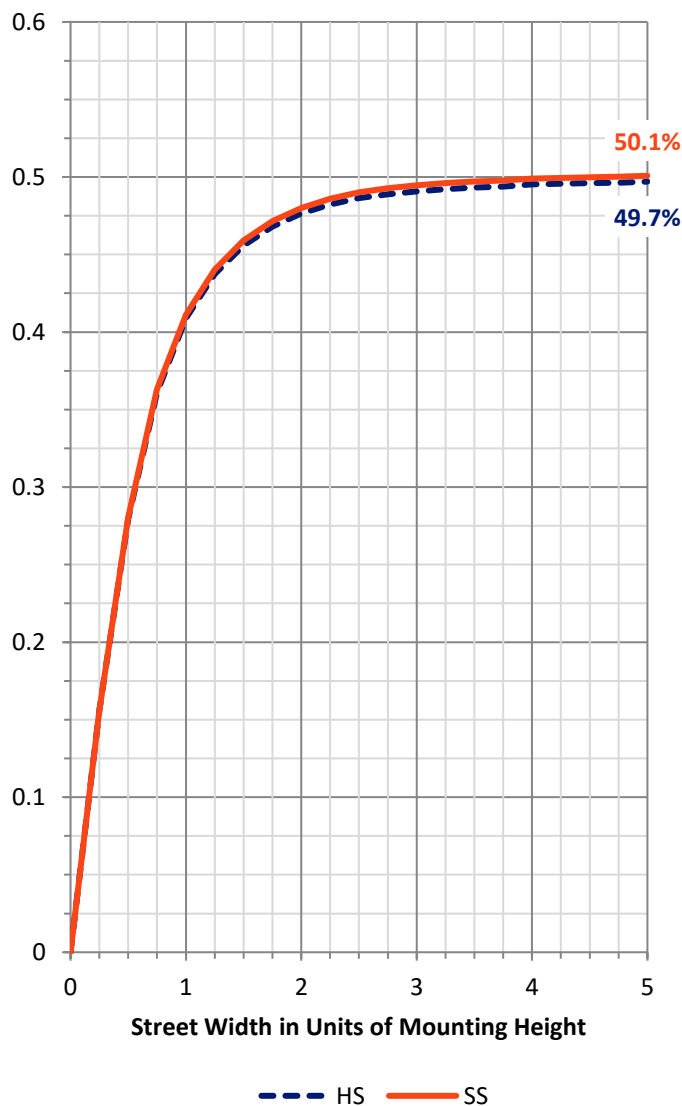
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15974.0	0.0	15974.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15974.0	0.0	15974.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31948.0	0.0	31948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.2	1.6
10°-20°	1485.3	4.6
20°-30°	2452.2	7.7
30°-40°	3593.2	11.2
40°-50°	5241.3	16.4
50°-60°	6785.8	21.2
60°-70°	7149.3	22.4
70°-80°	4363.4	13.7
80°-90°	377.2	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°	31948.0	100.0
0°-180°	31948.0	100.0

Coefficient of Utilization



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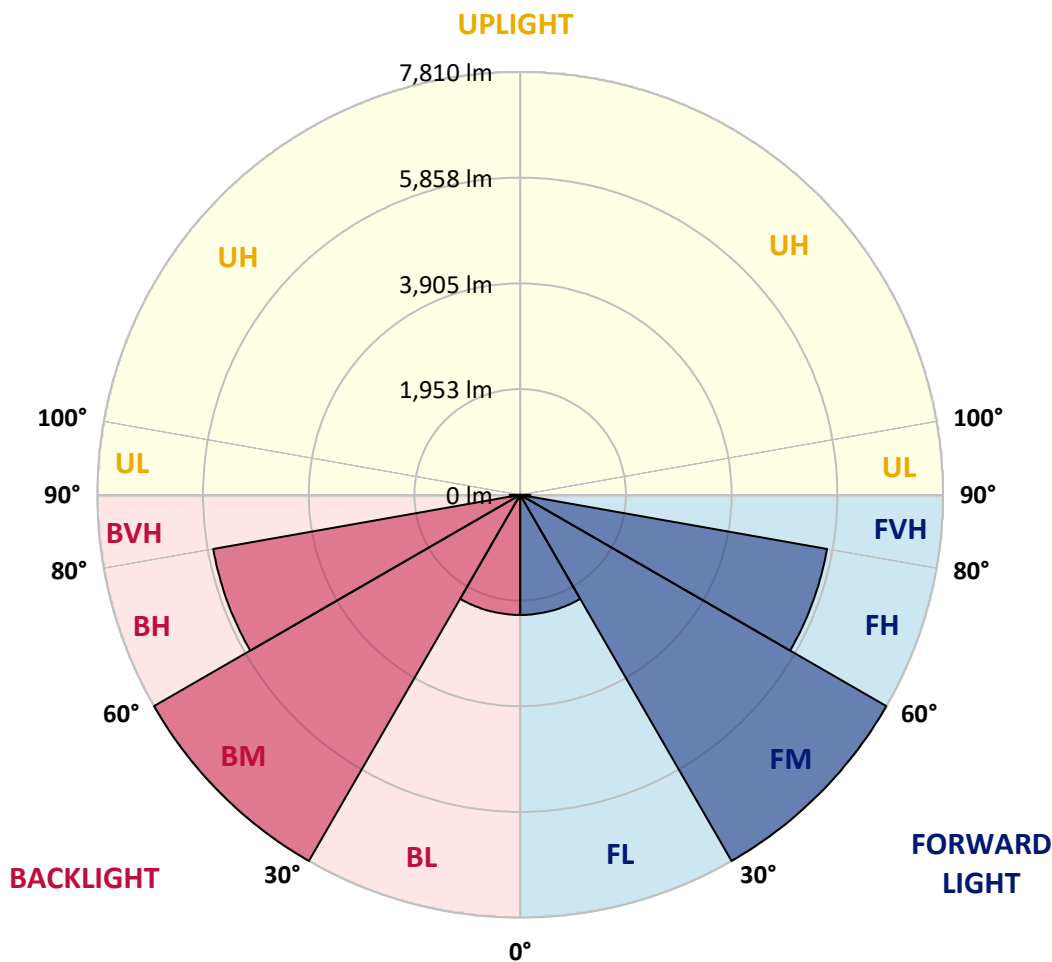
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2218.9	6.9			
FM	(30°-60°)	7810.1	24.4			
FH	(60°-80°)	5756.4	18.0			G3/7500
FVH	(80°-90°)	188.6	0.6			G2/225
BL	(0°-30°)	2218.9	6.9	B3/2500		
BM	(30°-60°)	7810.1	24.4	B4/8500		
BH	(60°-80°)	5756.4	18.0	B5		G5
BVH	(80°-90°)	188.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2	5256.2
2.5°	5212.6	5254.8	5261.6	5243.9	5245.3	5242.6	5253.4	5257.5	5263.0	5254.8	5250.7
5°	5204.5	5241.2	5248.0	5239.8	5250.7	5248.0	5253.4	5263.0	5261.6	5258.9	5258.9
7.5°	5160.9	5188.1	5209.9	5204.5	5207.2	5224.9	5243.9	5275.2	5290.2	5290.2	5287.5
10°	5103.8	5132.3	5169.1	5160.9	5178.6	5215.3	5253.4	5286.1	5324.2	5332.4	5332.4
12.5°	5042.5	5082.0	5117.4	5125.5	5166.4	5208.5	5277.9	5328.3	5371.8	5390.9	5389.5
15°	4960.9	4994.9	5037.1	5067.0	5132.3	5223.5	5314.7	5392.2	5454.8	5480.7	5484.8
17.5°	4852.1	4888.8	4933.7	4996.3	5110.6	5241.2	5382.7	5487.5	5582.7	5609.9	5609.9
20°	4709.2	4748.6	4803.1	4899.7	5054.8	5258.9	5448.0	5612.7	5736.5	5800.4	5809.9
22.5°	4487.4	4530.9	4619.4	4786.7	4990.8	5256.2	5525.6	5759.6	5946.0	6029.0	6038.5
25°	4241.1	4296.9	4422.1	4642.5	4911.9	5253.4	5603.1	5925.6	6174.6	6302.5	6329.7
27.5°	4023.4	4076.5	4230.2	4502.4	4838.4	5258.9	5680.7	6116.1	6475.3	6659.0	6682.1
30°	3809.8	3857.4	4028.9	4352.7	4770.4	5265.7	5780.0	6335.2	6816.8	7097.1	7152.9
32.5°	3634.3	3681.9	3847.9	4193.5	4687.4	5280.7	5906.6	6627.7	7291.7	7710.8	7746.1
35°	3480.5	3535.0	3680.5	4032.9	4577.2	5302.4	6065.7	7011.4	7972.0	8744.9	8785.7
37.5°	3347.2	3390.7	3520.0	3862.9	4461.5	5306.5	6250.8	7461.8	8851.0	9992.6	10271.5
40°	3258.7	3288.7	3388.0	3706.4	4309.2	5272.5	6463.1	7965.2	9830.6	11441.6	11760.0
42.5°	3178.5	3205.7	3284.6	3562.2	4150.0	5207.2	6660.3	8482.2	10811.7	12922.0	13222.7
45°	3081.9	3103.6	3183.9	3439.7	3994.8	5106.5	6823.6	8961.2	11826.7	14409.2	14692.2
47.5°	3002.9	3019.3	3087.3	3329.5	3822.0	4944.6	6893.0	9395.2	12915.2	15784.8	16135.9
50°	2948.5	2943.1	3002.9	3215.2	3645.2	4718.7	6834.5	9716.4	14062.2	17161.8	17540.0
52.5°	2854.6	2860.1	2917.2	3096.8	3498.2	4439.8	6605.9	9942.2	15216.1	18419.0	18866.7
55°	2758.0	2766.2	2811.1	2973.0	3343.1	4174.5	6182.8	9973.5	16423.0	19733.4	20038.2
57.5°	2654.6	2658.7	2696.8	2839.7	3170.3	3899.6	5649.4	9774.9	17542.8	20938.9	21227.4
60°	2563.5	2564.8	2590.7	2700.9	2978.4	3603.0	5028.9	9376.2	18444.9	21864.2	22333.6
62.5°	2441.0	2441.0	2457.3	2549.8	2782.5	3296.8	4433.0	8758.5	18937.4	22539.1	22880.6
65°	2265.5	2268.2	2284.5	2344.4	2525.4	2963.5	3873.8	7942.1	18907.5	22869.7	23212.6
67.5°	1929.4	1922.6	2020.6	2118.5	2260.0	2626.0	3325.4	7140.7	18221.7	22728.2	23049.3
70°	1397.4	1387.9	1445.0	1583.8	1925.3	2193.4	2826.1	6471.2	16251.5	22198.9	22465.6
72.5°	1147.0	1152.5	1155.2	1137.5	1288.5	1775.6	2360.7	5691.6	13409.1	20575.6	21405.6
75°	907.5	893.9	908.9	922.5	963.3	1040.9	1910.3	4739.1	10882.4	17253.0	18653.1
77.5°	572.8	564.7	563.3	571.5	624.5	659.9	1170.2	3473.7	7572.0	10913.7	11006.2
80°	398.7	397.3	398.7	409.6	427.2	435.4	649.0	1903.5	3812.5	3974.4	3903.7
82.5°	283.0	273.5	265.3	285.7	276.2	268.0	390.5	872.2	1028.6	700.7	568.7
85°	140.1	142.9	121.1	153.8	144.2	140.1	152.4	166.0	153.8	287.1	325.2
87.5°	39.5	38.1	42.2	49.0	47.6	54.4	49.0	53.1	62.6	108.9	107.5
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)