

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: P509931

Luminaire Tested: **VERD-M-CA3-170-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509931
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-CA3-170-730-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1060mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25454 lumens
Efficiency: N/A
Efficacy: 147.3 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

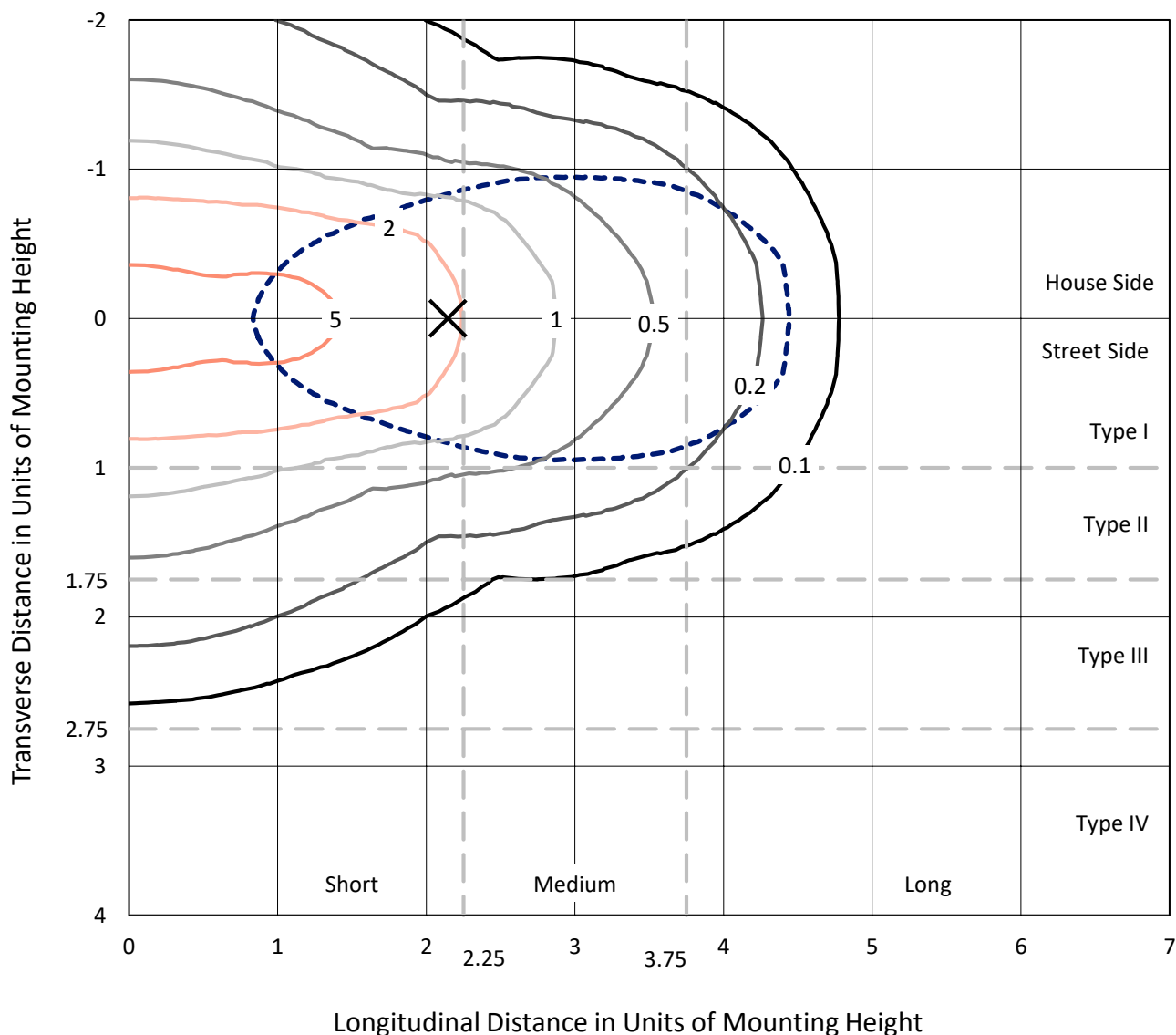
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

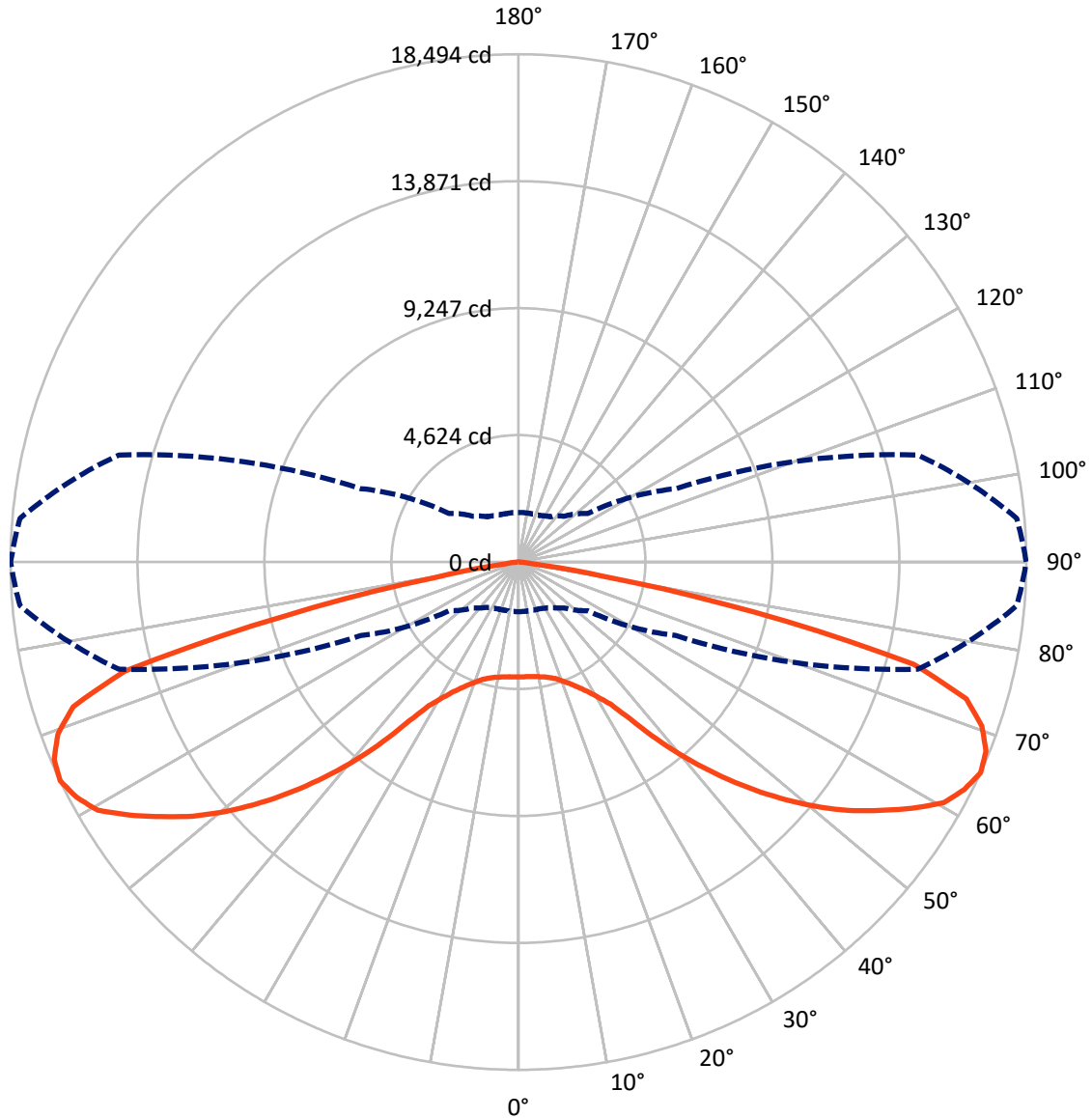
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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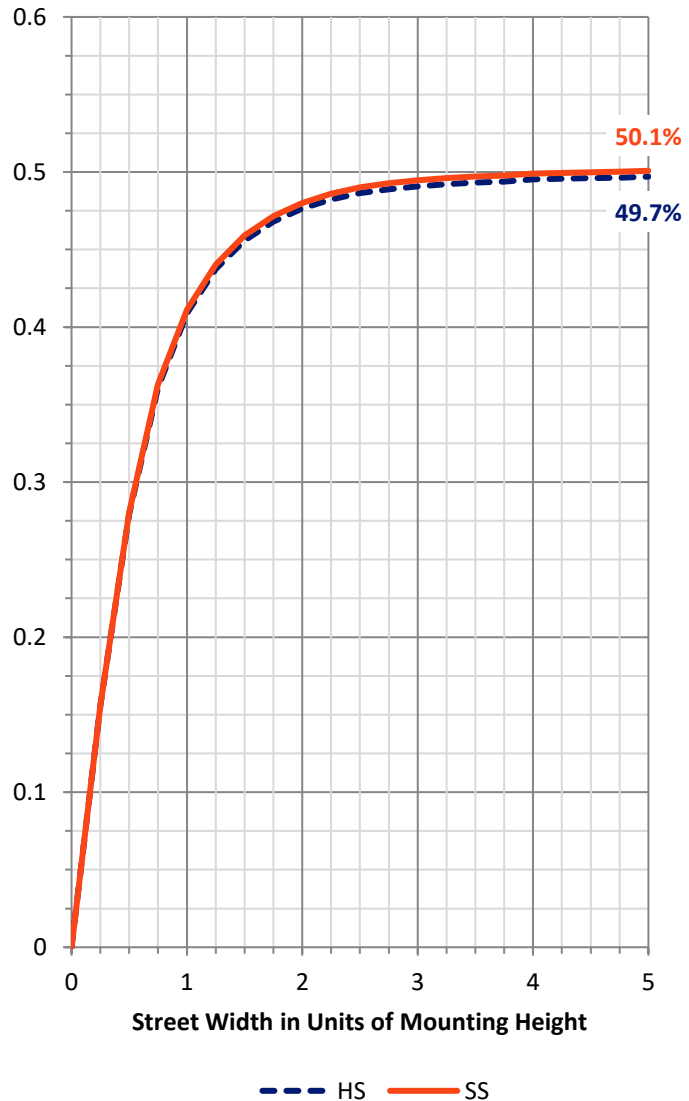
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12727.0	0.0	12727.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12727.0	0.0	12727.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25454.0	0.0	25454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.6	1.6
10°-20°	1183.4	4.6
20°-30°	1953.8	7.7
30°-40°	2862.8	11.2
40°-50°	4175.9	16.4
50°-60°	5406.4	21.2
60°-70°	5696.0	22.4
70°-80°	3476.5	13.7
80°-90°	300.5	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°	25454.0	100.0
0°-180°	25454.0	100.0

Coefficient of Utilization



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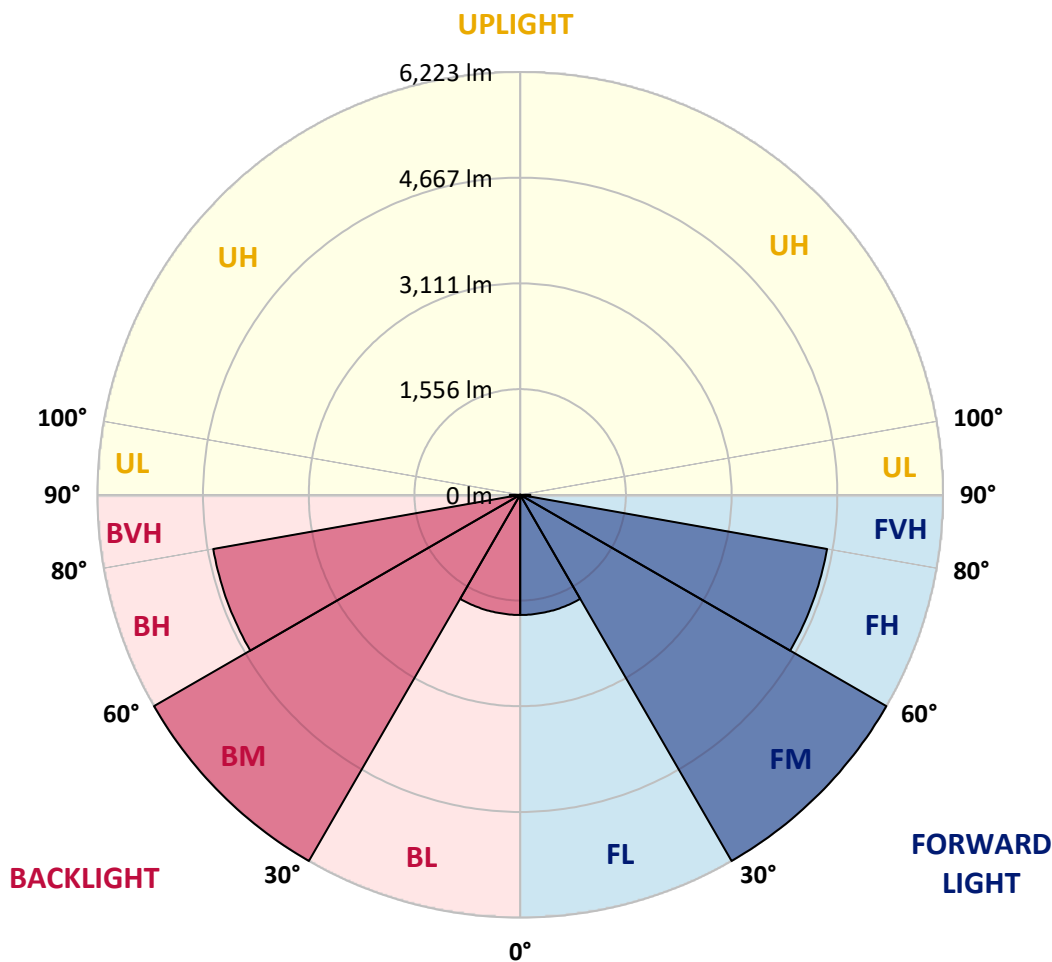
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1767.9	6.9			
FM	(30°-60°)	6222.6	24.4			
FH	(60°-80°)	4586.3	18.0			G2/5000
FVH	(80°-90°)	150.3	0.6			G2/225
BL	(0°-30°)	1767.9	6.9	B3/2500		
BM	(30°-60°)	6222.6	24.4	B4/8500		
BH	(60°-80°)	4586.3	18.0	B4/5000		G4/5000
BVH	(80°-90°)	150.3	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°	4187.8	4187.8	4187.8	4187.8	4187.8	4187.8	4187.8	4187.8	4187.8	4187.8	4187.8
2.5°	4153.1	4186.7	4192.1	4178.0	4179.1	4176.9	4185.6	4188.8	4193.2	4186.7	4183.4
5°	4146.6	4175.8	4181.3	4174.7	4183.4	4181.3	4185.6	4193.2	4192.1	4189.9	4189.9
7.5°	4111.9	4133.6	4150.9	4146.6	4148.7	4162.8	4178.0	4202.9	4214.9	4214.9	4212.7
10°	4066.3	4089.1	4118.4	4111.9	4126.0	4155.2	4185.6	4211.6	4242.0	4248.5	4248.5
12.5°	4017.6	4049.0	4077.2	4083.7	4116.2	4149.8	4205.1	4245.2	4279.9	4295.1	4294.0
15°	3952.5	3979.6	4013.2	4037.1	4089.1	4161.7	4234.4	4296.2	4346.0	4366.6	4369.9
17.5°	3865.8	3895.1	3930.8	3980.7	4071.8	4175.8	4288.6	4372.0	4447.9	4469.6	4469.6
20°	3752.0	3783.4	3826.8	3903.7	4027.3	4189.9	4340.6	4471.8	4570.4	4621.4	4629.0
22.5°	3575.3	3609.9	3680.4	3813.8	3976.4	4187.8	4402.4	4588.9	4737.4	4803.5	4811.1
25°	3379.0	3423.5	3523.2	3698.8	3913.5	4185.6	4464.2	4721.1	4919.5	5021.4	5043.1
27.5°	3205.6	3247.9	3370.4	3587.2	3854.9	4189.9	4526.0	4872.9	5159.1	5305.4	5323.9
30°	3035.4	3073.3	3209.9	3467.9	3800.7	4195.3	4605.1	5047.4	5431.2	5654.5	5698.9
32.5°	2895.5	2933.5	3065.7	3341.1	3734.6	4207.3	4705.9	5280.5	5809.5	6143.4	6171.6
35°	2773.0	2816.4	2932.4	3213.2	3646.8	4224.6	4832.8	5586.2	6351.6	6967.3	6999.8
37.5°	2666.8	2701.5	2804.5	3077.7	3554.7	4227.9	4980.2	5945.0	7051.9	7961.4	8183.6
40°	2596.3	2620.2	2699.3	2953.0	3433.2	4200.8	5149.3	6346.1	7832.4	9115.9	9369.6
42.5°	2532.4	2554.1	2616.9	2838.1	3306.4	4148.7	5306.5	6758.1	8614.0	10295.4	10535.0
45°	2455.4	2472.8	2536.7	2740.5	3182.8	4068.5	5436.6	7139.7	9422.7	11480.3	11705.8
47.5°	2392.5	2405.5	2459.8	2652.7	3045.1	3939.5	5491.9	7485.5	10290.0	12576.3	12856.0
50°	2349.2	2344.8	2392.5	2561.7	2904.2	3759.5	5445.3	7741.3	11203.8	13673.4	13974.7
52.5°	2274.4	2278.7	2324.2	2467.3	2787.1	3537.3	5263.2	7921.3	12123.1	14675.0	15031.7
55°	2197.4	2203.9	2239.7	2368.7	2663.6	3325.9	4926.0	7946.2	13084.7	15722.2	15965.1
57.5°	2115.0	2118.3	2148.6	2262.5	2525.9	3106.9	4501.1	7787.9	13976.9	16682.7	16912.5
60°	2042.4	2043.5	2064.1	2151.9	2373.0	2870.6	4006.7	7470.3	14695.6	17419.9	17793.9
62.5°	1944.8	1944.8	1957.8	2031.5	2216.9	2626.7	3531.9	6978.1	15088.1	17957.6	18229.7
65°	1805.0	1807.1	1820.2	1867.8	2012.0	2361.1	3086.3	6327.7	15064.2	18221.0	18494.2
67.5°	1537.2	1531.8	1609.8	1687.9	1800.6	2092.3	2649.5	5689.2	14517.8	18108.3	18364.1
70°	1113.3	1105.7	1151.3	1261.9	1534.0	1747.5	2251.6	5155.8	12948.1	17686.6	17899.0
72.5°	913.9	918.2	920.4	906.3	1026.6	1414.7	1880.9	4534.7	10683.5	16393.3	17054.6
75°	723.1	712.2	724.2	735.0	767.5	829.3	1522.0	3775.8	8670.4	13746.0	14861.5
77.5°	456.4	449.9	448.8	455.3	497.6	525.8	932.3	2767.6	6032.8	8695.3	8769.0
80°	317.6	316.5	317.6	326.3	340.4	346.9	517.1	1516.6	3037.6	3166.6	3110.2
82.5°	225.5	217.9	211.4	227.7	220.1	213.6	311.1	694.9	819.6	558.3	453.1
85°	111.7	113.8	96.5	122.5	114.9	111.7	121.4	132.3	122.5	228.7	259.1
87.5°	31.4	30.4	33.6	39.0	37.9	43.4	39.0	42.3	49.9	86.7	85.6
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)