

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: P509827

Luminaire Tested: **VERD-M-CA3-150-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509827
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-CA3-150-727-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 940mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19883 lumens
Efficiency: N/A
Efficacy: 130.0 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

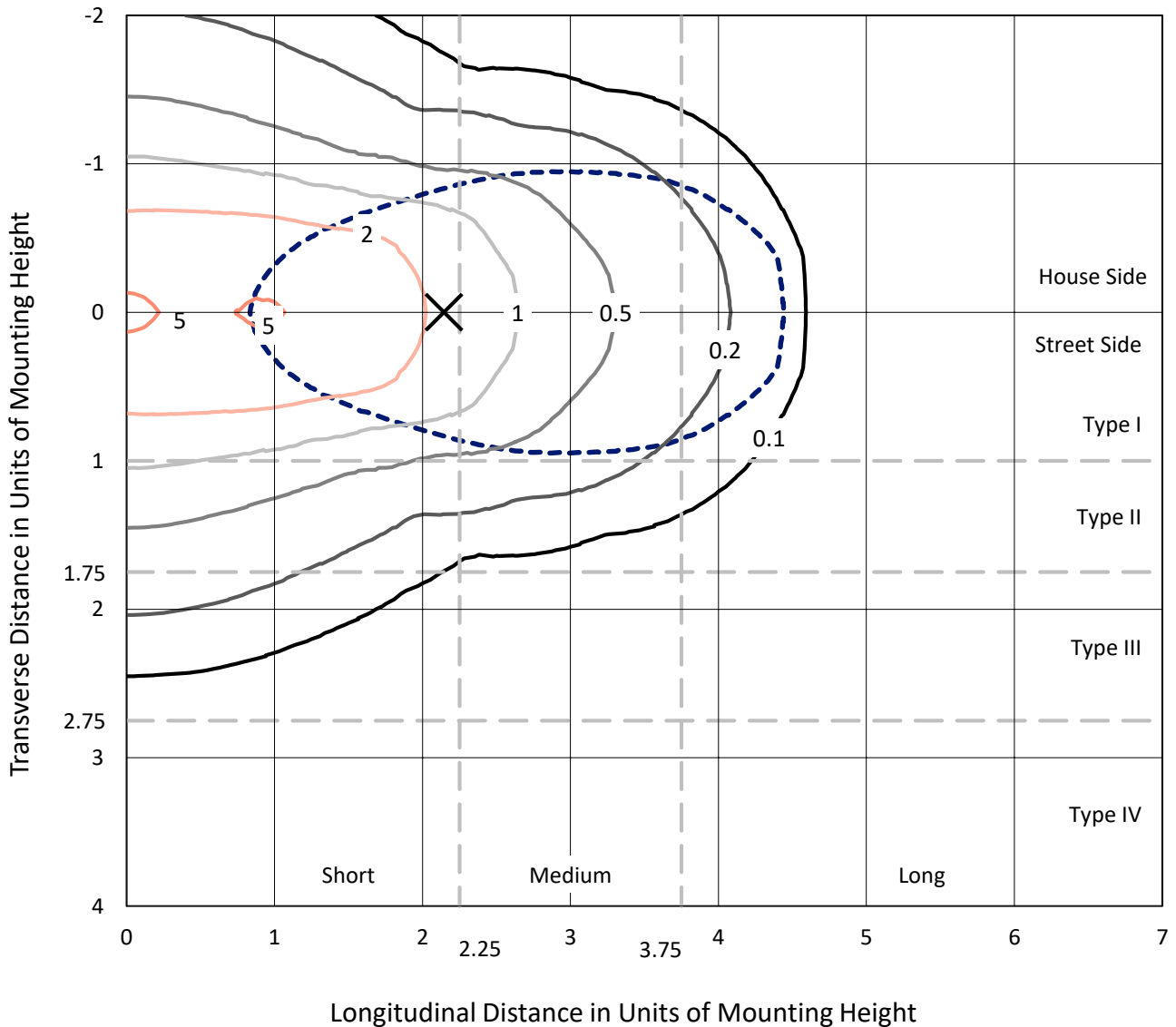
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

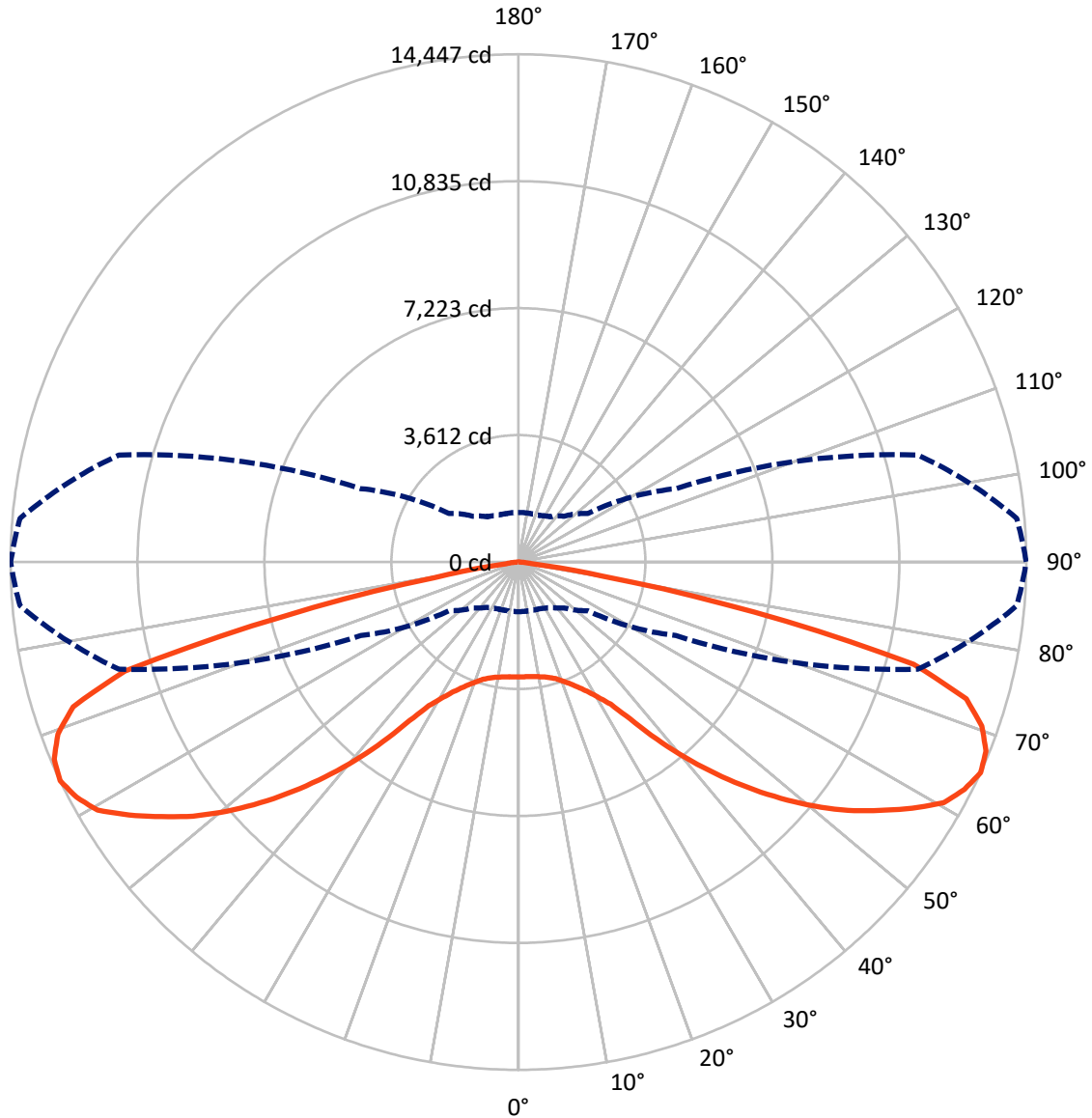
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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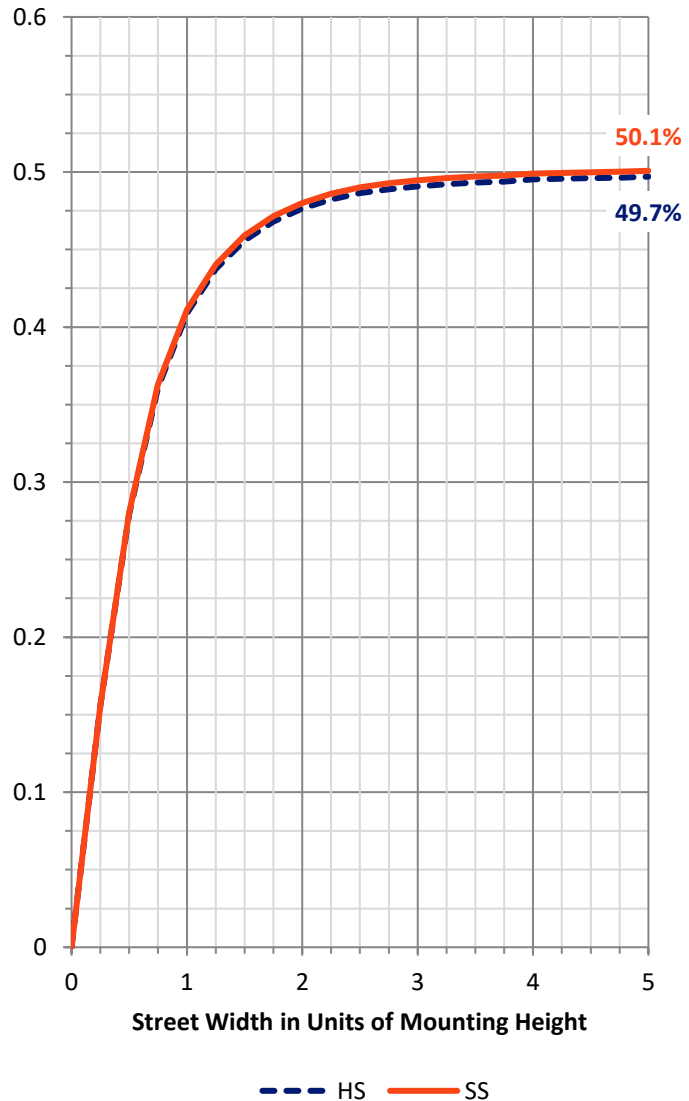
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9941.5	0.0	9941.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9941.5	0.0	9941.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19883.0	0.0	19883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.3	1.6
10°-20°	924.4	4.6
20°-30°	1526.2	7.7
30°-40°	2236.2	11.2
40°-50°	3262.0	16.4
50°-60°	4223.2	21.2
60°-70°	4449.4	22.4
70°-80°	2715.6	13.7
80°-90°	234.8	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°	19883.0	100.0
0°-180°	19883.0	100.0

Coefficient of Utilization



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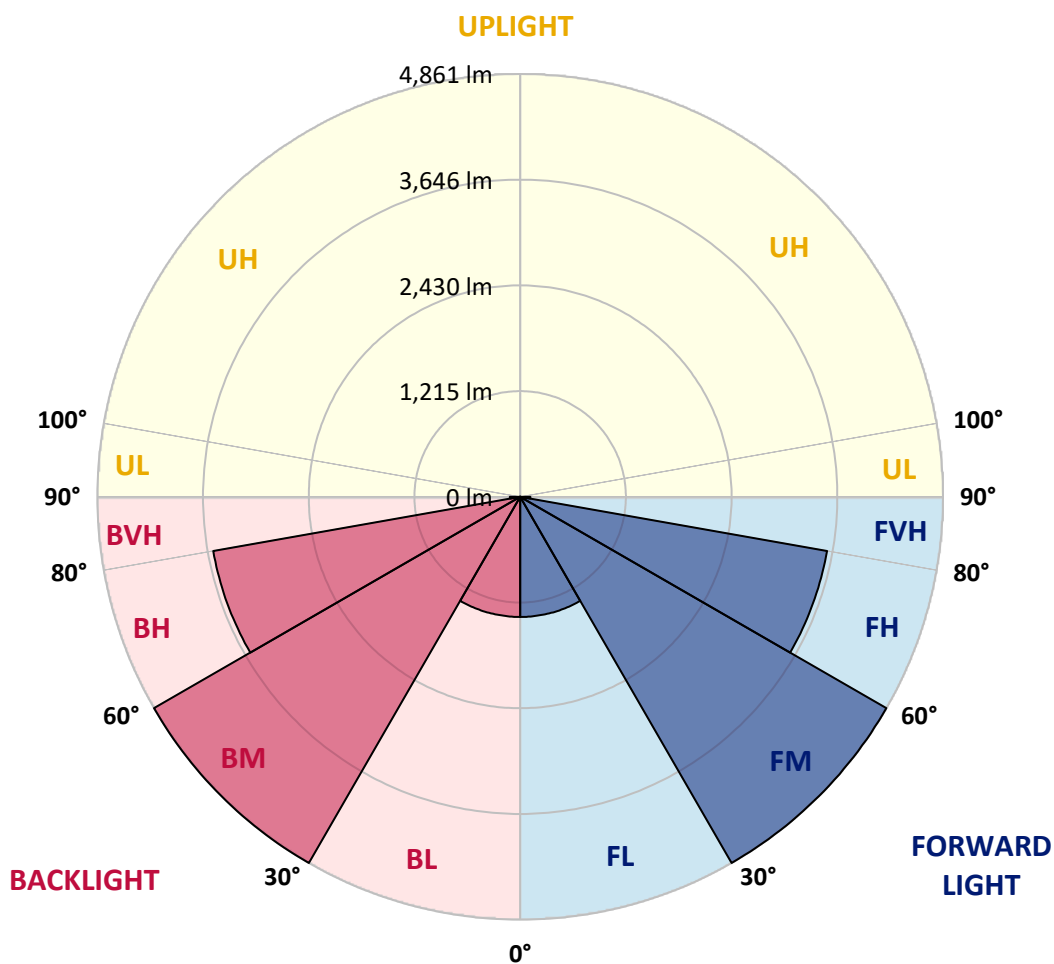
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1380.9	6.9			
FM	(30°-60°)	4860.7	24.4			
FH	(60°-80°)	3582.5	18.0			G2/5000
FVH	(80°-90°)	117.4	0.6			G2/225
BL	(0°-30°)	1380.9	6.9	B3/2500		
BM	(30°-60°)	4860.7	24.4	B3/5000		
BH	(60°-80°)	3582.5	18.0	B4/5000		G4/5000
BVH	(80°-90°)	117.4	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°	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2
2.5°	3244.1	3270.4	3274.6	3263.6	3264.4	3262.7	3269.5	3272.0	3275.4	3270.4	3267.8
5°	3239.0	3261.9	3266.1	3261.0	3267.8	3266.1	3269.5	3275.4	3274.6	3272.9	3272.9
7.5°	3211.9	3228.9	3242.4	3239.0	3240.7	3251.7	3263.6	3283.1	3292.4	3292.4	3290.7
10°	3176.4	3194.1	3217.0	3211.9	3222.9	3245.8	3269.5	3289.8	3313.5	3318.6	3318.6
12.5°	3138.3	3162.8	3184.8	3189.9	3215.3	3241.6	3284.7	3316.1	3343.2	3355.0	3354.2
15°	3087.4	3108.6	3134.9	3153.5	3194.1	3250.9	3307.6	3355.9	3394.8	3410.9	3413.5
17.5°	3019.7	3042.6	3070.5	3109.5	3180.6	3261.9	3350.0	3415.2	3474.4	3491.4	3491.4
20°	2930.8	2955.3	2989.2	3049.3	3145.9	3272.9	3390.6	3493.1	3570.1	3609.9	3615.8
22.5°	2792.8	2819.9	2874.9	2979.1	3106.1	3271.2	3438.9	3584.5	3700.5	3752.2	3758.1
25°	2639.5	2674.2	2752.1	2889.3	3057.0	3269.5	3487.1	3687.8	3842.8	3922.4	3939.3
27.5°	2504.0	2537.0	2632.7	2802.1	3011.2	3272.9	3535.4	3806.4	4029.9	4144.3	4158.6
30°	2371.0	2400.7	2507.4	2708.9	2968.9	3277.1	3597.2	3942.7	4242.5	4416.9	4451.6
32.5°	2261.8	2291.4	2394.8	2609.8	2917.2	3286.4	3676.0	4124.8	4538.0	4798.8	4820.8
35°	2166.1	2200.0	2290.6	2509.9	2848.6	3300.0	3775.0	4363.6	4961.4	5442.4	5467.8
37.5°	2083.1	2110.2	2190.7	2404.1	2776.7	3302.5	3890.2	4643.9	5508.5	6218.9	6392.5
40°	2028.1	2046.7	2108.5	2306.7	2681.8	3281.4	4022.3	4957.2	6118.2	7120.8	7318.9
42.5°	1978.1	1995.1	2044.2	2216.9	2582.7	3240.7	4145.1	5279.0	6728.7	8042.1	8229.2
45°	1918.0	1931.6	1981.5	2140.7	2486.2	3178.1	4246.7	5577.0	7360.4	8967.6	9143.8
47.5°	1868.9	1879.1	1921.4	2072.1	2378.7	3077.3	4289.9	5847.2	8037.9	9823.8	10042.2
50°	1835.0	1831.6	1868.9	2001.0	2268.6	2936.7	4253.5	6047.0	8751.7	10680.7	10916.1
52.5°	1776.6	1780.0	1815.5	1927.3	2177.1	2763.1	4111.2	6187.6	9469.8	11463.2	11741.8
55°	1716.5	1721.6	1749.5	1850.3	2080.6	2598.0	3847.9	6207.1	10220.9	12281.2	12470.9
57.5°	1652.1	1654.7	1678.4	1767.3	1973.1	2426.9	3515.9	6083.4	10917.8	13031.5	13211.0
60°	1595.4	1596.2	1612.3	1680.9	1853.7	2242.3	3129.8	5835.3	11479.3	13607.3	13899.4
62.5°	1519.2	1519.2	1529.3	1586.9	1731.7	2051.8	2758.9	5450.9	11785.8	14027.3	14239.8
65°	1409.9	1411.6	1421.8	1459.0	1571.7	1844.3	2410.8	4942.8	11767.2	14233.1	14446.5
67.5°	1200.8	1196.5	1257.5	1318.5	1406.5	1634.3	2069.6	4444.0	11340.4	14145.0	14344.8
70°	869.7	863.7	899.3	985.7	1198.2	1365.0	1758.8	4027.4	10114.2	13815.6	13981.6
72.5°	713.9	717.2	718.9	707.9	801.9	1105.1	1469.2	3542.2	8345.2	12805.4	13321.9
75°	564.8	556.3	565.7	574.1	599.5	647.8	1188.9	2949.4	6772.7	10737.5	11608.8
77.5°	356.5	351.4	350.6	355.7	388.7	410.7	728.3	2161.9	4712.5	6792.2	6849.8
80°	248.1	247.3	248.1	254.9	265.9	271.0	403.9	1184.7	2372.7	2473.5	2429.5
82.5°	176.1	170.2	165.1	177.8	171.9	166.8	243.0	542.8	640.2	436.1	354.0
85°	87.2	88.9	75.4	95.7	89.8	87.2	94.8	103.3	95.7	178.7	202.4
87.5°	24.6	23.7	26.3	30.5	29.6	33.9	30.5	33.0	39.0	67.7	66.9
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)