

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: P509135

Luminaire Tested: **VERD-CA2-110-750-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-750-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16388 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 113.6
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



REPORT NUMBER: P509135
 CATALOG NUMBER: VERD-CA2-110-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

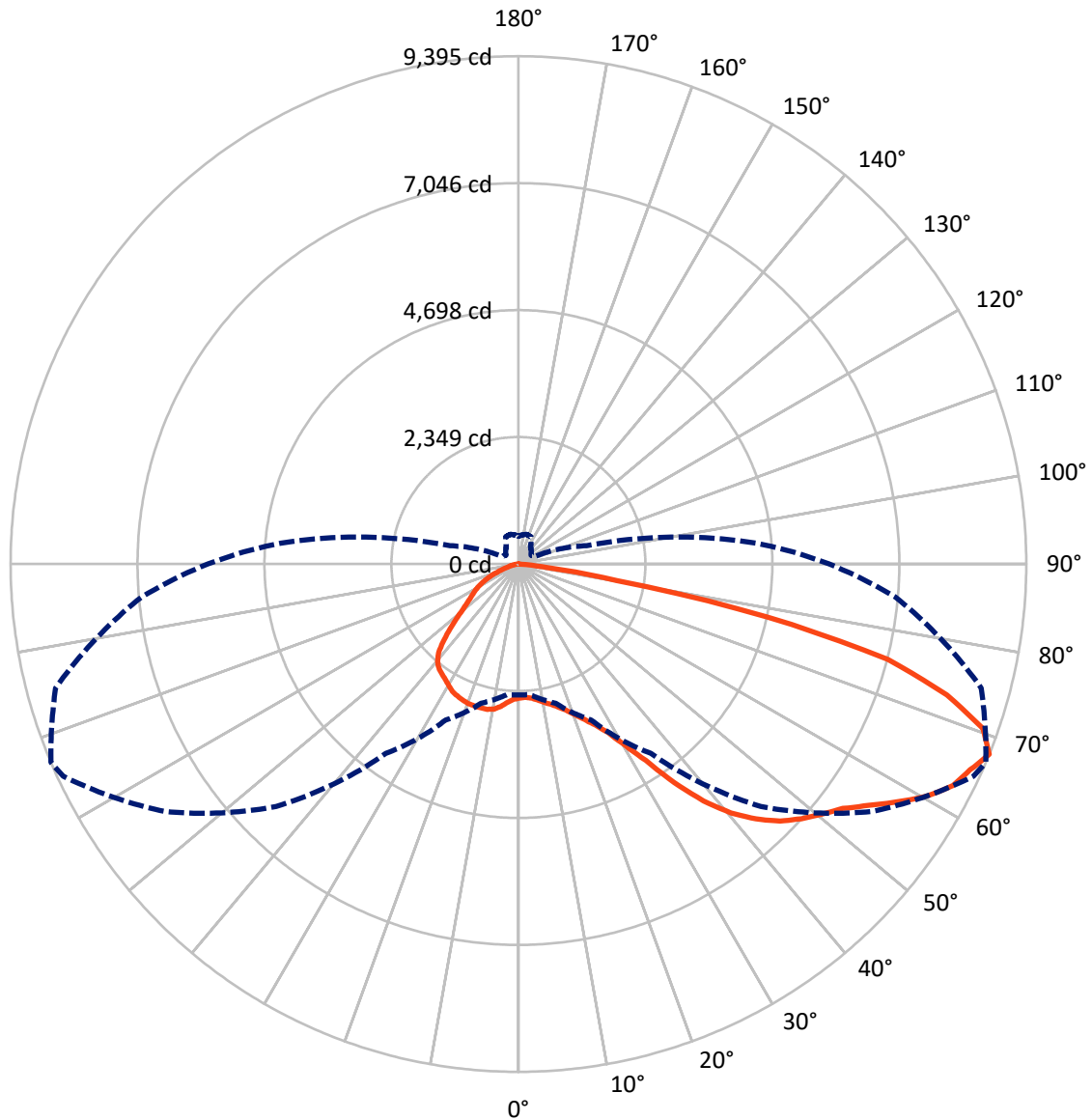
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P509135
CATALOG NUMBER: VERD-CA2-110-750-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509135

CATALOG NUMBER: VERD-CA2-110-750-U-T3

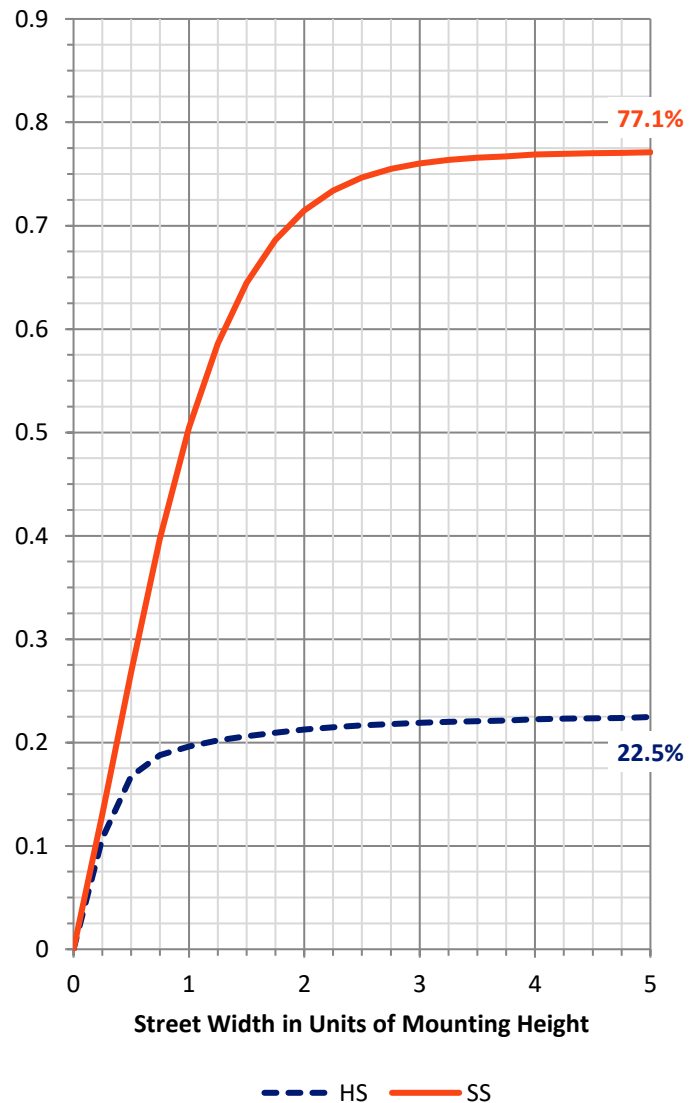
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3747.2	0.0	3747.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12640.8	0.0	12640.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	16388.0	0.0	16388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.5
10°-20°	803.6	4.9
20°-30°	1388.5	8.5
30°-40°	2107.5	12.9
40°-50°	2863.8	17.5
50°-60°	3405.9	20.8
60°-70°	3504.2	21.4
70°-80°	1911.6	11.7
80°-90°	151.9	0.9
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°	16388.0	100.0
0°-180°	16388.0	100.0



REPORT NUMBER: P509135

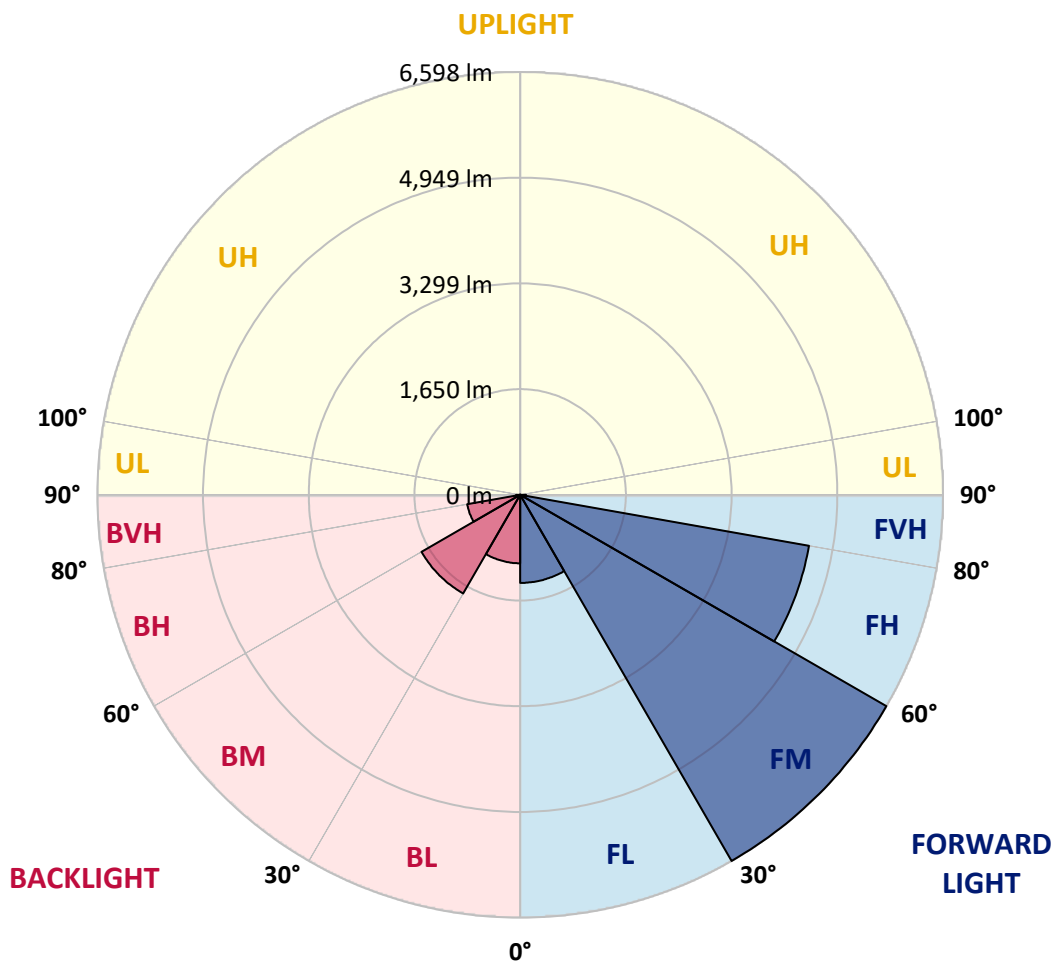
CATALOG NUMBER: VERD-CA2-110-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.6	8.4			
FM (30°-60°)	6598.5	40.3			
FH (60°-80°)	4576.8	27.9			G2/5000
FVH (80°-90°)	90.9	0.6			G1/100
BL (0°-30°)	1068.5	6.5	B3/2500		
BM (30°-60°)	1778.8	10.9	B2/2500		
BH (60°-80°)	839.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	61.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P509135

CATALOG NUMBER: VERD-CA2-110-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2
2.5°	2493.4	2482.8	2468.6	2473.9	2463.3	2481.0	2473.9	2470.4	2470.4	2472.1	2481.0
5°	2550.2	2539.6	2528.9	2527.2	2505.9	2513.0	2502.3	2491.7	2491.7	2489.9	2493.4
7.5°	2649.6	2635.4	2623.0	2621.2	2594.6	2591.0	2559.1	2537.8	2537.8	2536.0	2541.3
10°	2780.9	2775.6	2750.8	2734.8	2702.8	2681.5	2642.5	2608.8	2601.7	2591.0	2605.2
12.5°	2906.9	2905.2	2882.1	2864.3	2820.0	2782.7	2718.8	2672.7	2663.8	2651.4	2662.0
15°	3064.9	3048.9	3024.1	3013.4	2949.5	2892.7	2820.0	2750.8	2741.9	2727.7	2736.6
17.5°	3238.8	3229.9	3190.9	3178.5	3098.6	3032.9	2942.4	2853.7	2839.5	2820.0	2818.2
20°	3448.2	3432.2	3402.1	3366.6	3288.5	3194.4	3089.7	2988.6	2976.1	2960.2	2926.5
22.5°	3673.6	3655.9	3625.7	3588.4	3489.0	3389.6	3258.3	3130.5	3123.4	3112.8	3050.7
25°	3888.3	3858.2	3861.7	3826.2	3737.5	3611.5	3457.1	3304.5	3300.9	3299.1	3199.8
27.5°	4117.3	4085.3	4074.7	4062.3	3978.8	3859.9	3686.0	3540.5	3528.1	3529.8	3379.0
30°	4332.0	4317.8	4308.9	4300.1	4259.2	4152.8	3985.9	3856.4	3895.4	3891.9	3684.2
32.5°	4498.8	4488.2	4525.4	4568.0	4557.4	4468.7	4353.3	4294.7	4333.8	4459.8	4278.8
35°	4646.1	4640.8	4711.8	4802.3	4866.2	4802.3	4789.9	4880.4	4970.9	5180.3	5075.6
37.5°	4805.8	4798.7	4859.1	5013.5	5125.3	5144.8	5238.9	5471.4	5558.3	5767.7	5547.7
40°	4804.1	4812.9	4958.5	5155.5	5359.5	5524.6	5718.0	5943.4	6055.2	6154.6	5813.9
42.5°	4726.0	4731.3	4914.1	5288.6	5584.9	5909.7	6081.8	6371.1	6447.4	6467.0	6128.0
45°	4646.1	4649.7	4848.4	5269.0	5773.1	6270.0	6461.6	6726.1	6784.6	6717.2	6341.0
47.5°	4530.8	4553.8	4768.6	5249.5	5934.5	6601.8	6756.2	7018.9	7042.0	6956.8	6518.4
50°	4394.1	4406.5	4653.2	5185.6	6041.0	6807.7	6990.5	7228.3	7272.7	7176.8	6738.5
52.5°	4227.3	4237.9	4505.9	5100.4	6099.6	6965.6	7169.7	7453.7	7514.0	7471.4	6931.9
55°	4035.6	4041.0	4314.3	4962.0	6083.6	7034.9	7325.9	7773.1	7874.3	7769.6	7093.4
57.5°	3796.1	3815.6	4126.1	4754.4	5962.9	7121.8	7608.1	8167.1	8296.7	8073.0	7214.1
60°	3549.4	3568.9	3851.1	4513.0	5760.6	7160.9	7899.1	8591.3	8704.8	8360.5	7288.6
62.5°	3272.5	3299.1	3533.4	4149.2	5398.6	7109.4	8113.9	8962.2	9026.0	8532.7	7269.1
65°	2869.7	2883.9	3139.4	3710.9	4926.5	6841.4	8105.0	9160.9	9182.2	8722.6	7183.9
67.5°	2422.4	2424.2	2665.6	3182.0	4277.0	6341.0	7980.8	9290.5	9395.2	8862.8	6997.6
70°	1842.1	1867.0	2055.1	2438.4	3496.1	5485.6	7570.8	9162.7	9113.0	8479.4	6463.4
72.5°	1315.0	1300.8	1396.7	1655.8	2447.3	4232.6	6527.3	8278.9	8289.6	7723.4	5624.0
75°	699.2	702.8	784.4	1002.7	1249.4	2754.3	5221.1	6994.0	7057.9	6623.1	4401.2
77.5°	156.2	177.5	269.8	383.3	543.1	882.0	2832.4	4587.6	4708.2	4358.6	2411.8
80°	120.7	122.5	177.5	218.3	239.6	422.4	899.8	1664.7	1847.4	1744.5	906.9
82.5°	79.9	81.6	117.1	120.7	115.4	193.4	408.2	498.7	548.4	479.2	337.2
85°	42.6	44.4	53.2	58.6	46.1	56.8	53.2	42.6	44.4	39.0	39.0
87.5°	8.9	5.3	7.1	5.3	5.3	3.5	5.3	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509135
 CATALOG NUMBER: VERD-CA2-110-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2
2.5°	2481.0	2484.6	2493.4	2507.6	2514.7	2530.7	2541.3	2568.0	2605.2	2592.8	2576.8
5°	2495.2	2505.9	2536.0	2573.3	2601.7	2644.3	2665.6	2717.0	2759.6	2756.1	2727.7
7.5°	2548.4	2571.5	2608.8	2663.8	2711.7	2754.3	2784.5	2839.5	2878.5	2862.6	2835.9
10°	2615.9	2639.0	2679.8	2729.5	2765.0	2811.1	2830.6	2875.0	2899.8	2880.3	2857.2
12.5°	2678.0	2690.4	2718.8	2756.1	2775.6	2805.8	2814.7	2846.6	2869.7	2860.8	2832.4
15°	2738.3	2736.6	2741.9	2752.5	2759.6	2766.7	2768.5	2791.6	2807.6	2789.8	2770.3
17.5°	2805.8	2788.0	2765.0	2747.2	2720.6	2708.2	2685.1	2695.7	2694.0	2679.8	2663.8
20°	2891.0	2859.0	2788.0	2733.0	2663.8	2608.8	2560.9	2552.0	2552.0	2513.0	2511.2
22.5°	2992.1	2938.9	2820.0	2699.3	2587.5	2500.5	2411.8	2360.3	2323.1	2294.7	2282.2
25°	3123.4	3025.8	2848.4	2653.2	2488.1	2330.2	2197.1	2126.1	2055.1	2008.9	2001.8
27.5°	3263.6	3157.2	2866.1	2612.3	2351.5	2134.9	1950.4	1804.9	1739.2	1709.0	1680.6
30°	3492.6	3304.5	2898.1	2525.4	2179.3	1895.4	1650.5	1480.1	1416.2	1394.9	1377.2
32.5°	4048.1	3686.0	2928.2	2436.6	1994.7	1630.9	1307.9	1164.2	1109.2	1130.5	1137.6
35°	4743.7	4253.9	3072.0	2333.7	1803.1	1331.0	1006.2	910.4	914.0	945.9	956.6
37.5°	5215.8	4754.4	3364.8	2204.2	1528.0	986.7	779.1	748.9	775.5	803.9	809.3
40°	5492.7	4983.3	3570.7	2044.4	1203.2	738.3	585.6	564.3	621.1	685.0	724.1
42.5°	5787.2	5178.5	3677.1	1836.8	844.8	534.2	449.0	465.0	555.5	610.5	635.3
45°	5945.2	5331.2	3629.2	1540.4	575.0	415.3	402.9	447.2	537.7	587.4	594.5
47.5°	6115.6	5483.8	3513.9	1231.6	440.1	394.0	395.8	449.0	541.3	594.5	594.5
50°	6262.9	5609.8	3308.0	965.4	418.8	379.8	397.5	457.9	546.6	592.7	591.0
52.5°	6433.2	5666.6	3015.2	780.9	397.5	367.4	399.3	465.0	537.7	564.3	560.8
55°	6486.5	5625.8	2875.0	653.1	381.6	360.3	406.4	475.6	534.2	539.5	530.6
57.5°	6486.5	5515.7	2715.3	557.3	367.4	360.3	410.0	473.8	553.7	587.4	583.9
60°	6458.1	5400.4	2470.4	498.7	347.8	356.7	411.7	500.5	658.4	695.7	693.9
62.5°	6367.6	5214.0	2168.7	440.1	328.3	358.5	406.4	537.7	752.5	736.5	697.5
65°	6152.8	4862.6	1758.7	386.9	307.0	358.5	399.3	591.0	669.1	638.9	624.7
67.5°	5748.2	4420.7	1307.9	331.9	282.2	335.4	388.7	553.7	567.9	534.2	512.9
70°	5214.0	3744.6	839.4	280.4	255.6	315.9	381.6	520.0	548.4	507.6	480.9
72.5°	4344.4	2974.4	486.3	228.9	216.5	291.0	367.4	504.0	539.5	484.5	447.2
75°	3064.9	1877.6	319.4	168.6	173.9	248.5	340.7	472.1	505.8	438.3	385.1
77.5°	1561.7	704.6	227.2	124.2	117.1	189.9	294.6	434.8	498.7	441.9	378.0
80°	551.9	354.9	149.1	81.6	76.3	117.1	225.4	369.1	468.5	431.2	418.8
82.5°	236.0	177.5	81.6	51.5	46.1	58.6	127.8	291.0	411.7	390.4	472.1
85°	33.7	30.2	23.1	19.5	19.5	26.6	40.8	143.7	278.6	317.7	385.1
87.5°	5.3	5.3	5.3	3.5	3.5	3.5	1.8	21.3	92.3	138.4	191.7
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)