

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: P509114

Luminaire Tested: **VERD-CA2-110-727-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-727-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14045 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

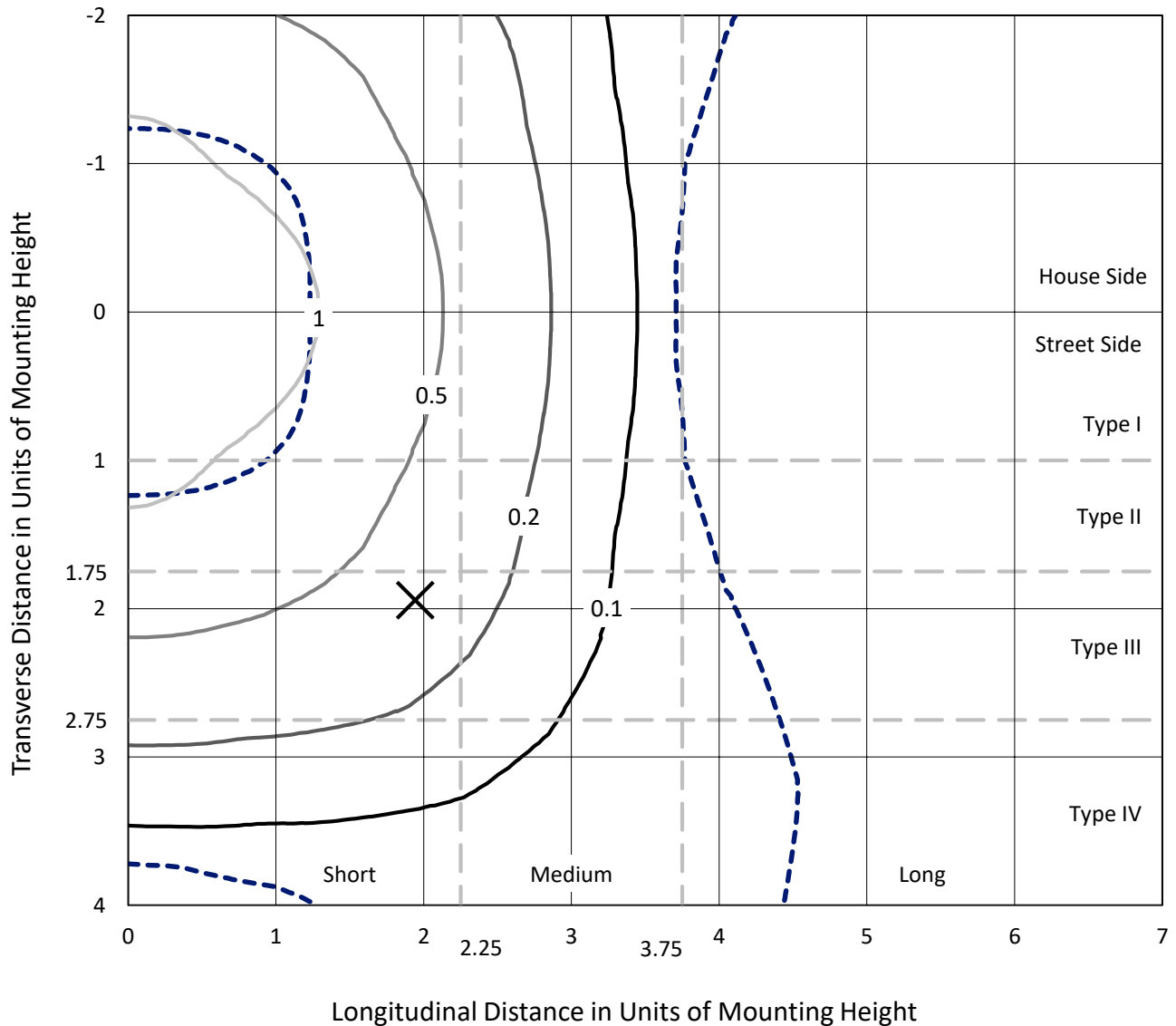
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509114
 CATALOG NUMBER: VERD-CA2-110-727-U-T5

Iso-Footcandle Lines of Horizontal Illumination

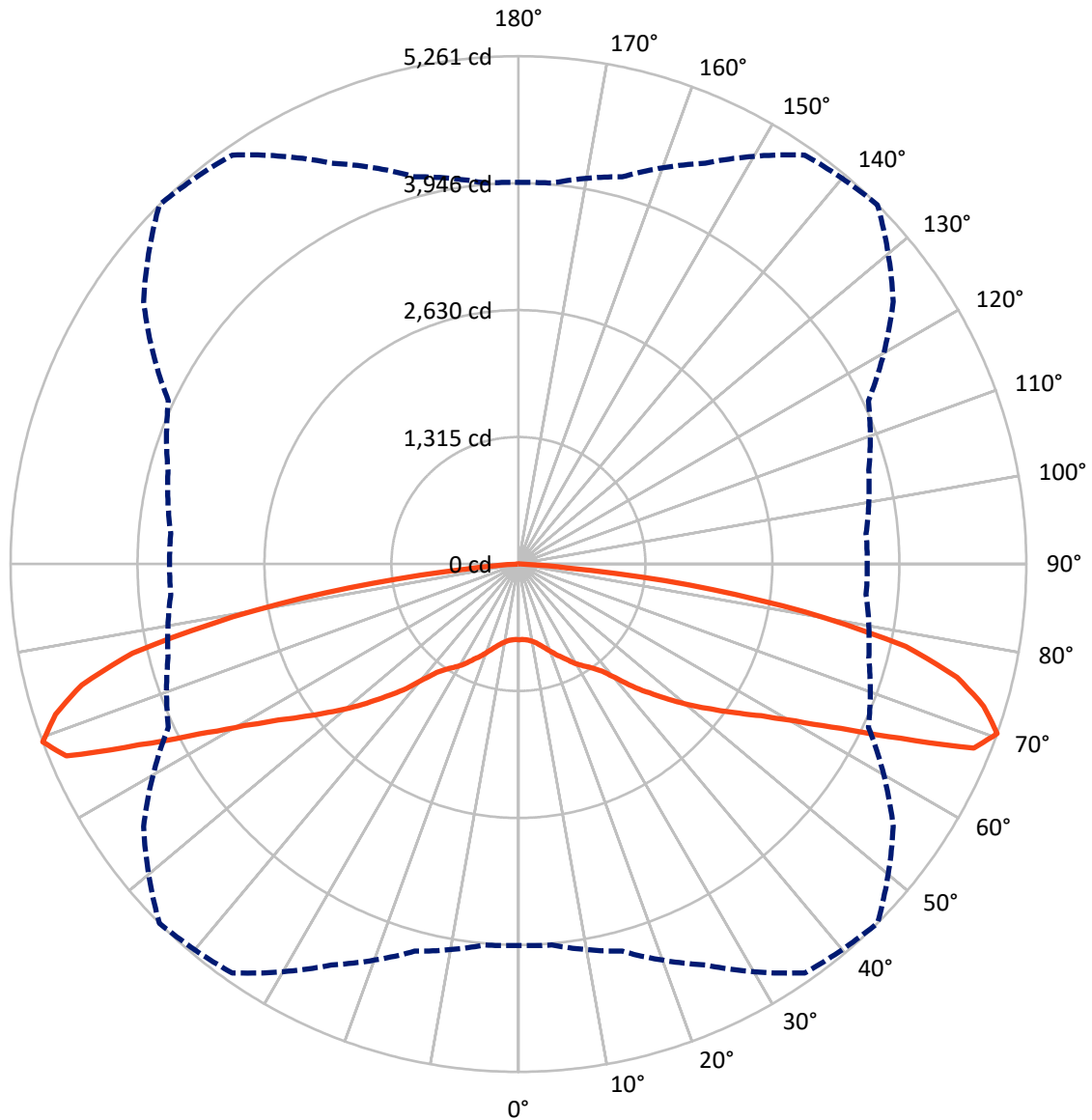
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

REPORT NUMBER: P509114
CATALOG NUMBER: VERD-CA2-110-727-U-T5

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P509114

CATALOG NUMBER: VERD-CA2-110-727-U-T5

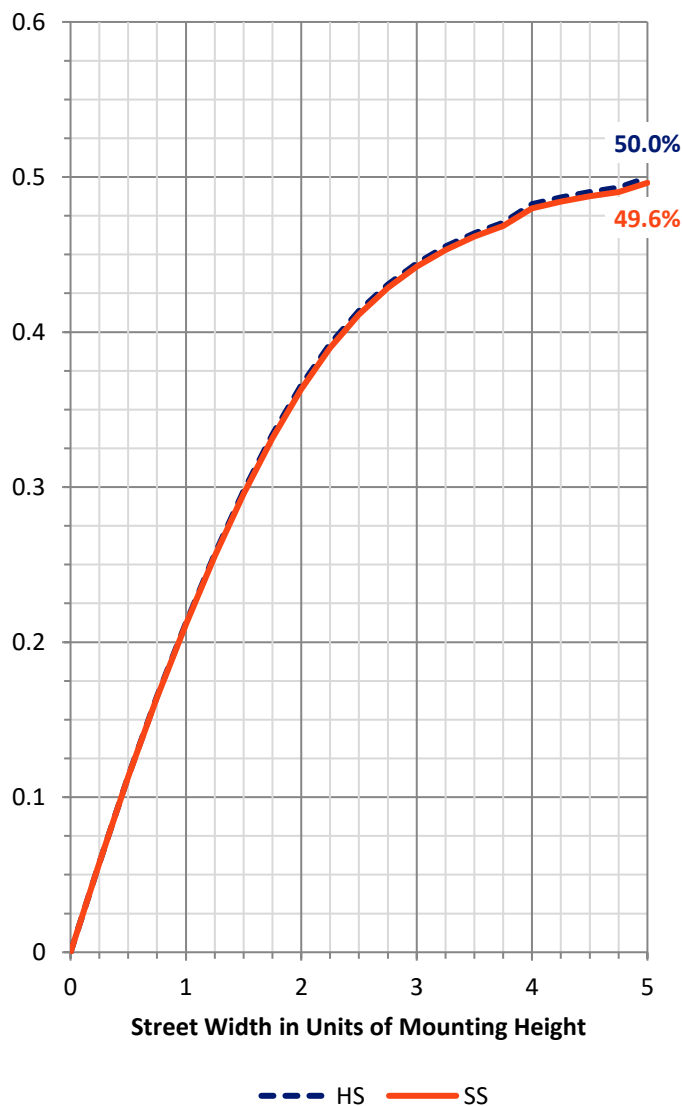
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7022.5	0.0	7022.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7022.5	0.0	7022.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14045.0	0.0	14045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	0.5
10°-20°	250.9	1.8
20°-30°	492.8	3.5
30°-40°	845.2	6.0
40°-50°	1551.9	11.0
50°-60°	2611.8	18.6
60°-70°	4126.7	29.4
70°-80°	3521.6	25.1
80°-90°	567.8	4.0
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°	14045.0	100.0
0°-180°	14045.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509114

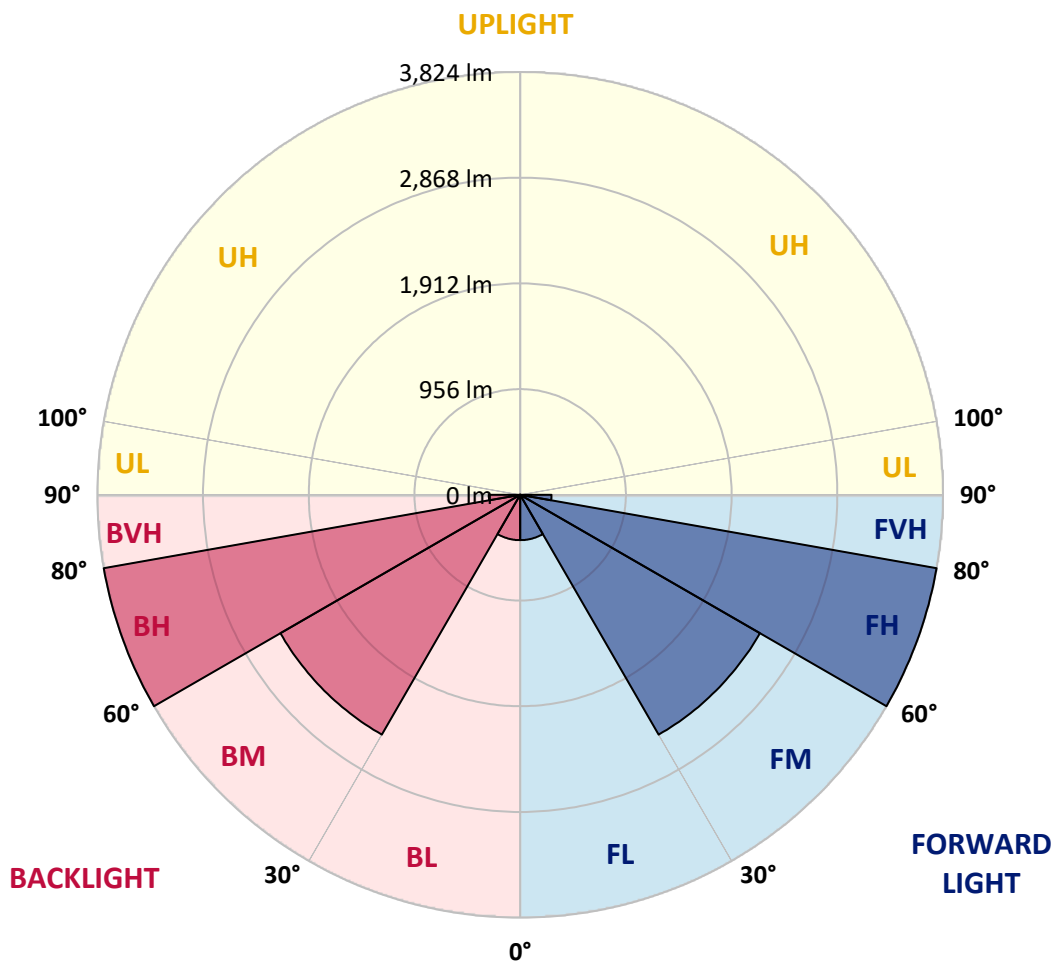
CATALOG NUMBER: VERD-CA2-110-727-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.0	2.9			
FM (30°-60°)	2504.5	17.8			
FH (60°-80°)	3824.2	27.2			G2/5000
FVH (80°-90°)	283.9	2.0			G3/500
BL (0°-30°)	410.0	2.9	B1/500		
BM (30°-60°)	2504.5	17.8	B3/5000		
BH (60°-80°)	3824.2	27.2	B4/5000		G2/5000
BVH (80°-90°)	283.9	2.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1
2.5°	786.6	791.0	786.6	786.6	783.6	782.1	782.1	782.1	785.1	788.0	788.0
5°	792.5	795.4	791.0	791.0	788.0	788.0	788.0	788.0	791.0	793.9	792.5
7.5°	802.8	807.2	802.8	802.8	799.8	796.9	796.9	798.4	799.8	801.3	799.8
10°	820.5	826.4	820.5	823.5	817.5	816.1	814.6	814.6	816.1	816.1	816.1
12.5°	842.6	847.1	844.1	847.1	841.2	841.2	836.7	836.7	835.3	835.3	835.3
15°	872.1	878.1	875.1	879.5	876.6	876.6	872.1	867.7	866.2	866.2	866.2
17.5°	907.6	913.5	912.0	919.4	916.4	919.4	910.5	903.1	904.6	904.6	903.1
20°	948.9	954.8	954.8	965.1	965.1	968.1	956.3	948.9	945.9	947.4	945.9
22.5°	994.6	1000.5	999.1	1015.3	1024.1	1024.1	1007.9	1002.0	996.1	997.6	994.6
25°	1044.8	1052.2	1044.8	1059.6	1074.3	1075.8	1062.5	1047.8	1047.8	1055.1	1052.2
27.5°	1087.6	1096.5	1092.0	1097.9	1130.4	1139.3	1118.6	1102.4	1105.3	1111.2	1106.8
30°	1139.3	1146.6	1139.3	1143.7	1174.7	1204.2	1165.8	1161.4	1167.3	1173.2	1173.2
32.5°	1205.7	1214.5	1201.2	1205.7	1216.0	1261.7	1227.8	1233.7	1247.0	1260.3	1260.3
35°	1283.9	1292.7	1279.4	1279.4	1283.9	1322.2	1311.9	1329.6	1356.2	1384.2	1390.1
37.5°	1382.7	1387.2	1372.4	1366.5	1375.4	1406.4	1421.1	1461.0	1503.8	1555.4	1564.3
40°	1517.0	1522.9	1502.3	1496.4	1502.3	1546.6	1587.9	1658.7	1717.7	1772.3	1778.2
42.5°	1716.3	1734.0	1713.3	1694.1	1694.1	1734.0	1791.5	1877.1	1952.4	1987.8	1996.6
45°	1936.1	1952.4	1908.1	1883.0	1872.7	1905.2	1968.6	2069.0	2139.8	2197.3	2192.9
47.5°	2197.3	2191.4	2150.1	2105.8	2073.4	2094.0	2153.1	2240.1	2316.9	2368.5	2370.0
50°	2489.5	2488.1	2433.5	2346.4	2284.4	2293.3	2333.1	2426.1	2502.8	2551.5	2563.3
52.5°	2800.9	2790.6	2718.3	2617.9	2525.0	2495.4	2511.7	2594.3	2677.0	2733.0	2733.0
55°	3112.3	3099.0	3038.5	2905.7	2795.0	2715.3	2703.5	2786.2	2880.6	2948.5	2952.9
57.5°	3434.0	3436.9	3372.0	3258.4	3088.7	2966.2	2933.7	3028.2	3128.5	3190.5	3206.7
60°	3761.6	3758.7	3708.5	3628.8	3459.1	3299.7	3246.6	3301.2	3428.1	3476.8	3496.0
62.5°	4179.2	4189.6	4115.8	4059.7	3898.8	3745.4	3645.0	3698.1	3823.6	3891.5	3892.9
65°	4405.0	4425.7	4458.1	4560.0	4506.8	4350.4	4223.5	4161.5	4123.2	4101.0	4087.7
67.5°	4278.1	4279.6	4419.8	4679.5	4986.5	5086.8	4602.8	4168.9	4009.5	3965.3	3953.4
70°	3952.0	3960.8	4152.7	4582.1	5170.9	5260.9	4740.0	4000.7	3757.2	3615.5	3614.0
72.5°	3302.7	3410.4	3662.7	4298.8	5051.4	5041.1	4520.1	3729.1	3345.5	3205.3	3189.0
75°	2613.5	2644.5	2994.2	3710.0	4608.7	4694.3	4199.9	3242.2	2796.5	2612.0	2601.7
77.5°	1670.5	1698.6	2083.7	2879.1	3894.4	4102.5	3583.0	2589.9	2091.1	1832.8	1825.5
80°	816.1	895.8	1188.0	1874.2	2811.2	3007.5	2520.5	1655.8	1238.1	994.6	974.0
82.5°	335.0	352.7	578.5	1037.4	1649.9	1782.7	1288.3	770.3	457.5	302.5	280.4
85°	100.3	101.8	177.1	370.4	695.1	503.2	259.7	110.7	48.7	35.4	33.9
87.5°	17.7	19.2	32.5	44.3	42.8	19.2	17.7	16.2	16.2	16.2	17.7
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)