

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: P509122

Luminaire Tested: **VERD-CA2-110-730-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509122
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-CA2-110-730-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16286 lumens
Efficiency: N/A
Efficacy: 143.4 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

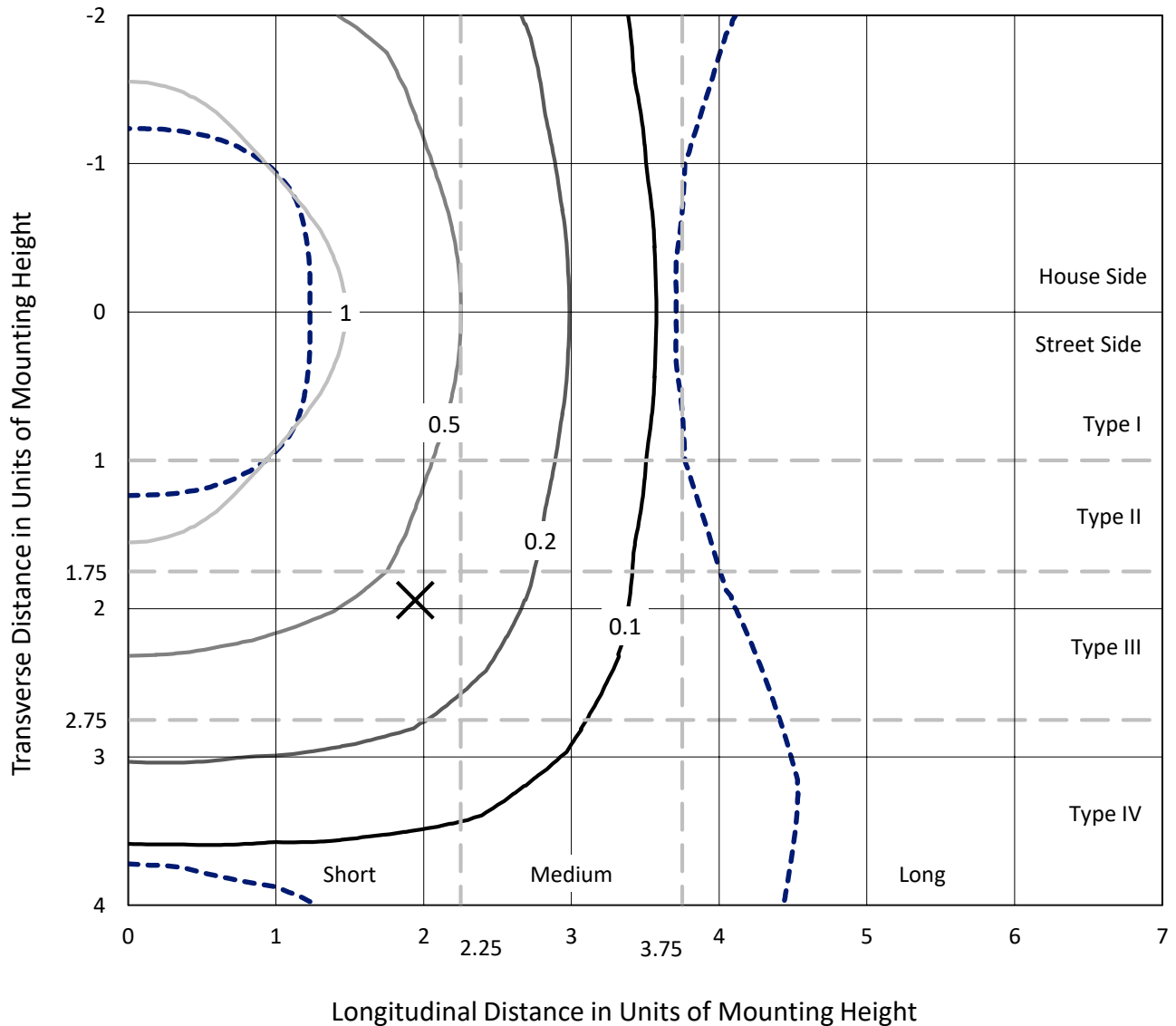
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509122
 CATALOG NUMBER: VERD-CA2-110-730-U-T5

Iso-Footcandle Lines of Horizontal Illumination

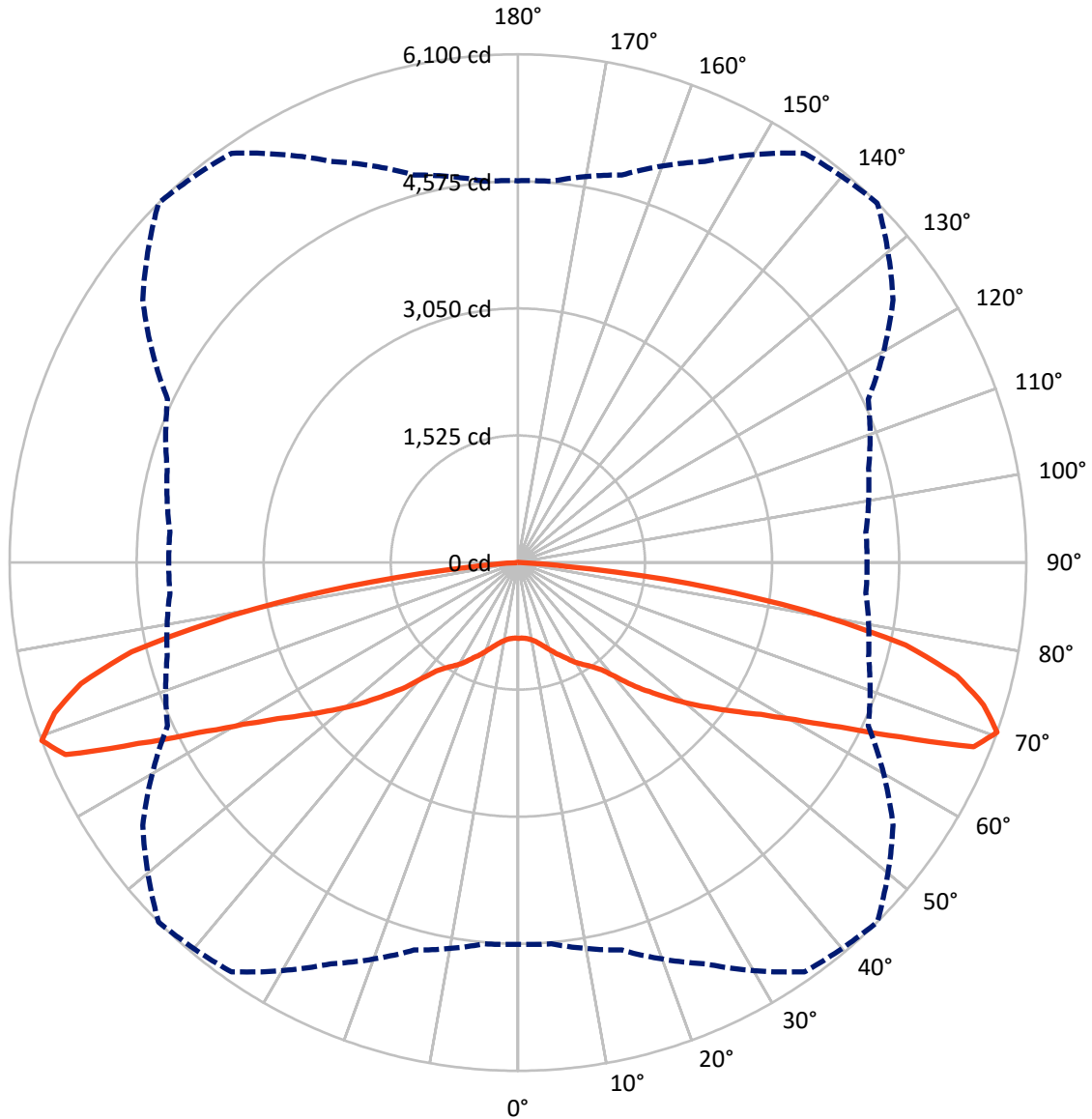
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

REPORT NUMBER: P509122
CATALOG NUMBER: VERD-CA2-110-730-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509122

CATALOG NUMBER: VERD-CA2-110-730-U-T5

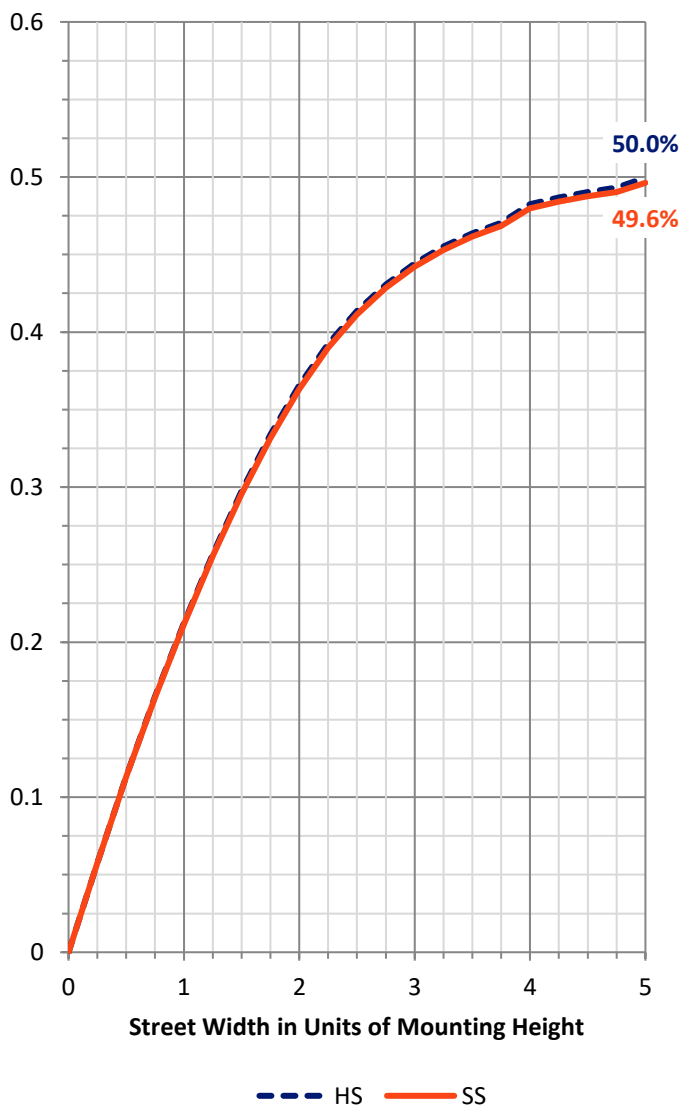
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8143.0	0.0	8143.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8143.0	0.0	8143.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16286.0	0.0	16286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	0.5
10°-20°	290.9	1.8
20°-30°	571.4	3.5
30°-40°	980.1	6.0
40°-50°	1799.6	11.0
50°-60°	3028.5	18.6
60°-70°	4785.2	29.4
70°-80°	4083.5	25.1
80°-90°	658.3	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°	16286.0	100.0
0°-180°	16286.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509122

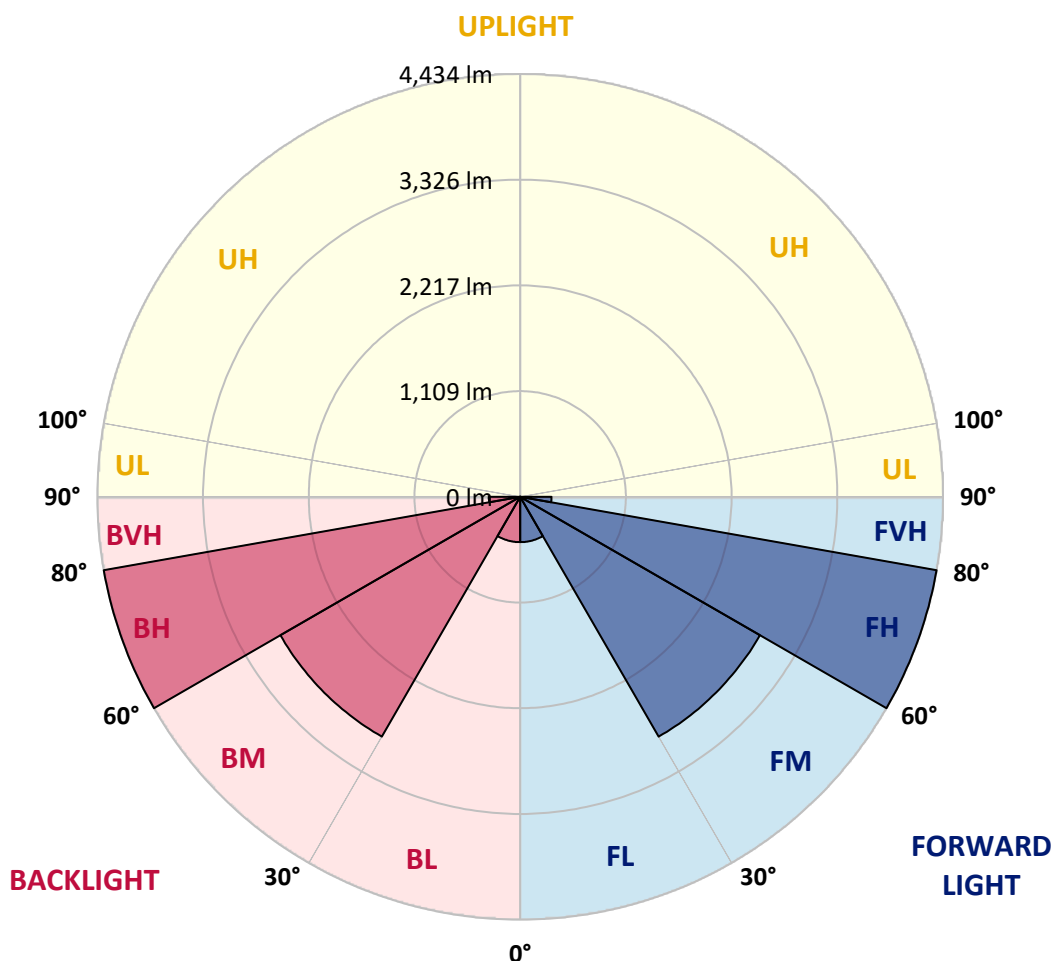
CATALOG NUMBER: VERD-CA2-110-730-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.4	2.9			
FM (30°-60°)	2904.1	17.8			
FH (60°-80°)	4434.3	27.2			G2/5000
FVH (80°-90°)	329.2	2.0			G3/500
BL (0°-30°)	475.4	2.9	B1/500		
BM (30°-60°)	2904.1	17.8	B3/5000		
BH (60°-80°)	4434.3	27.2	B4/5000		G2/5000
BVH (80°-90°)	329.2	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





REPORT NUMBER: P509122

CATALOG NUMBER: VERD-CA2-110-730-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3	910.3
2.5°	912.1	917.2	912.1	912.1	908.6	906.9	906.9	906.9	910.3	913.8	913.8
5°	918.9	922.3	917.2	917.2	913.8	913.8	913.8	913.8	917.2	920.6	918.9
7.5°	930.9	936.0	930.9	930.9	927.5	924.0	924.0	925.7	927.5	929.2	927.5
10°	951.4	958.3	951.4	954.8	948.0	946.3	944.6	944.6	946.3	946.3	946.3
12.5°	977.1	982.2	978.8	982.2	975.4	975.4	970.2	970.2	968.5	968.5	968.5
15°	1011.3	1018.2	1014.7	1019.9	1016.4	1016.4	1011.3	1006.2	1004.5	1004.5	1004.5
17.5°	1052.4	1059.2	1057.5	1066.1	1062.6	1066.1	1055.8	1047.2	1049.0	1049.0	1047.2
20°	1100.3	1107.1	1107.1	1119.1	1119.1	1122.5	1108.8	1100.3	1096.9	1098.6	1096.9
22.5°	1153.3	1160.2	1158.5	1177.3	1187.6	1187.6	1168.7	1161.9	1155.0	1156.8	1153.3
25°	1211.5	1220.1	1211.5	1228.6	1245.7	1247.5	1232.1	1214.9	1214.9	1223.5	1220.1
27.5°	1261.1	1271.4	1266.3	1273.1	1310.8	1321.0	1297.1	1278.3	1281.7	1288.5	1283.4
30°	1321.0	1329.6	1321.0	1326.2	1362.1	1396.3	1351.8	1346.7	1353.5	1360.4	1360.4
32.5°	1398.0	1408.3	1392.9	1398.0	1410.0	1463.1	1423.7	1430.5	1445.9	1461.3	1461.3
35°	1488.7	1499.0	1483.6	1483.6	1488.7	1533.2	1521.2	1541.8	1572.6	1605.1	1611.9
37.5°	1603.4	1608.5	1591.4	1584.6	1594.8	1630.8	1647.9	1694.1	1743.7	1803.6	1813.9
40°	1759.1	1765.9	1742.0	1735.1	1742.0	1793.3	1841.2	1923.4	1991.8	2055.1	2062.0
42.5°	1990.1	2010.6	1986.7	1964.4	1964.4	2010.6	2077.4	2176.6	2263.9	2305.0	2315.2
45°	2245.1	2263.9	2212.6	2183.5	2171.5	2209.1	2282.7	2399.1	2481.2	2547.9	2542.8
47.5°	2547.9	2541.1	2493.2	2441.9	2404.2	2428.2	2496.6	2597.6	2686.6	2746.4	2748.2
50°	2886.8	2885.1	2821.7	2720.8	2648.9	2659.2	2705.4	2813.2	2902.2	2958.6	2972.3
52.5°	3247.8	3235.8	3152.0	3035.6	2927.8	2893.6	2912.4	3008.3	3104.1	3169.1	3169.1
55°	3608.9	3593.5	3523.3	3369.3	3241.0	3148.6	3134.9	3230.7	3340.2	3418.9	3424.1
57.5°	3981.9	3985.3	3910.0	3778.3	3581.5	3439.5	3401.8	3511.3	3627.7	3699.6	3718.4
60°	4361.8	4358.4	4300.2	4207.8	4011.0	3826.2	3764.6	3827.9	3975.1	4031.5	4053.8
62.5°	4846.1	4858.0	4772.5	4707.5	4520.9	4343.0	4226.6	4288.2	4433.7	4512.4	4514.1
65°	5107.9	5131.8	5169.5	5287.6	5225.9	5044.6	4897.4	4825.5	4781.0	4755.4	4740.0
67.5°	4960.7	4962.4	5125.0	5426.2	5782.1	5898.4	5337.2	4834.1	4649.3	4597.9	4584.3
70°	4582.5	4592.8	4815.3	5313.2	5996.0	6100.4	5496.3	4639.0	4356.7	4192.4	4190.7
72.5°	3829.6	3954.5	4247.2	4984.7	5857.4	5845.4	5241.3	4324.2	3879.2	3716.7	3697.9
75°	3030.5	3066.4	3472.0	4301.9	5344.0	5443.3	4870.0	3759.5	3242.7	3028.8	3016.8
77.5°	1937.1	1969.6	2416.2	3338.5	4515.8	4757.1	4154.7	3003.1	2424.7	2125.3	2116.7
80°	946.3	1038.7	1377.5	2173.2	3259.8	3487.4	2922.7	1919.9	1435.7	1153.3	1129.4
82.5°	388.4	409.0	670.8	1203.0	1913.1	2067.1	1493.9	893.2	530.5	350.8	325.1
85°	116.4	118.1	205.3	429.5	806.0	583.5	301.2	128.3	56.5	41.1	39.4
87.5°	20.5	22.2	37.6	51.3	49.6	22.2	20.5	18.8	18.8	18.8	20.5
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)