

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: P509146

Luminaire Tested: **VERD-CA2-110-760-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509146
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-CA2-110-760-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16532 lumens
Efficiency: N/A
Efficacy: 145.5 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

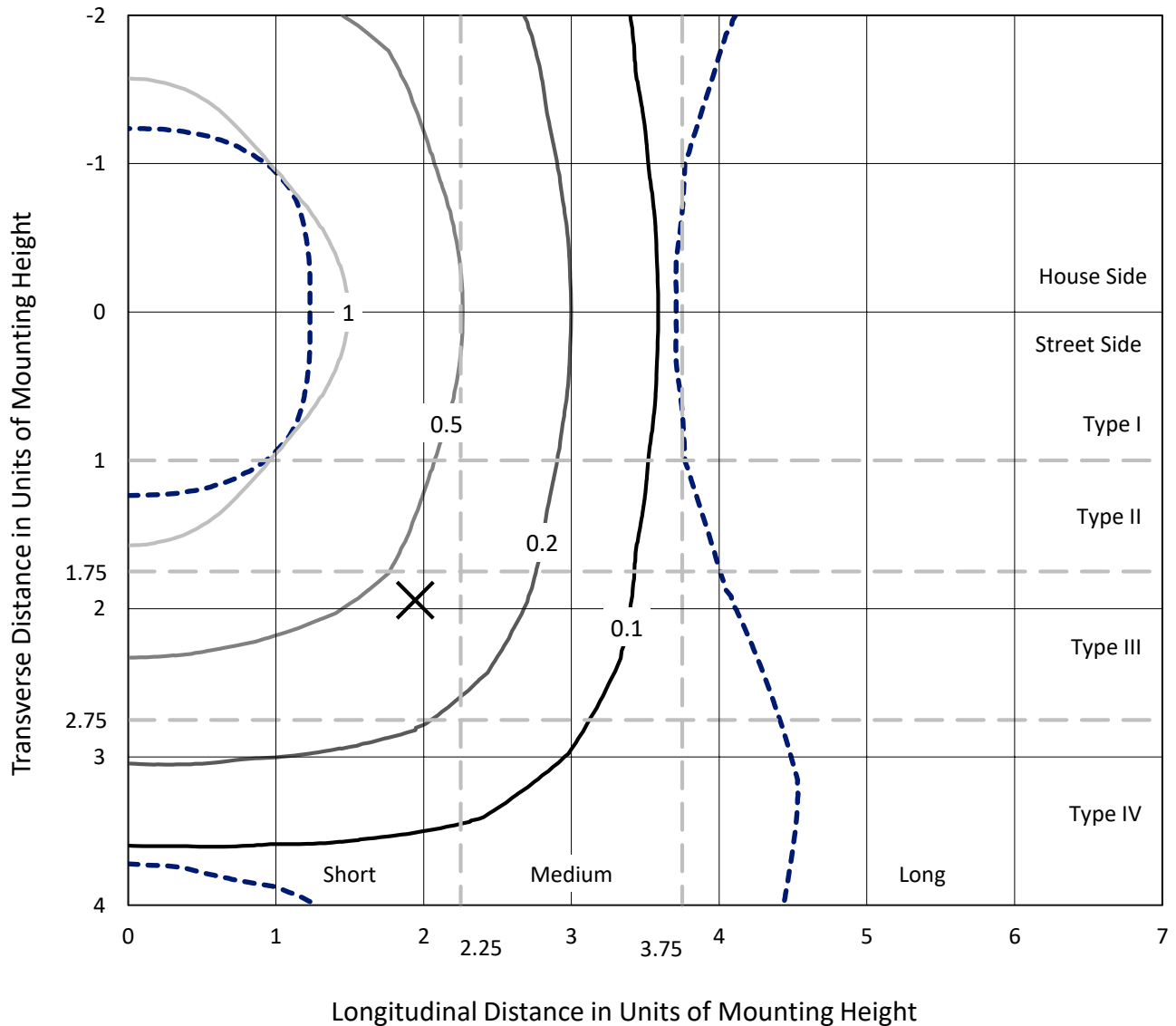


REPORT NUMBER: P509146

CATALOG NUMBER: VERD-CA2-110-760-U-T5

Iso-Footcandle Lines of Horizontal Illumination

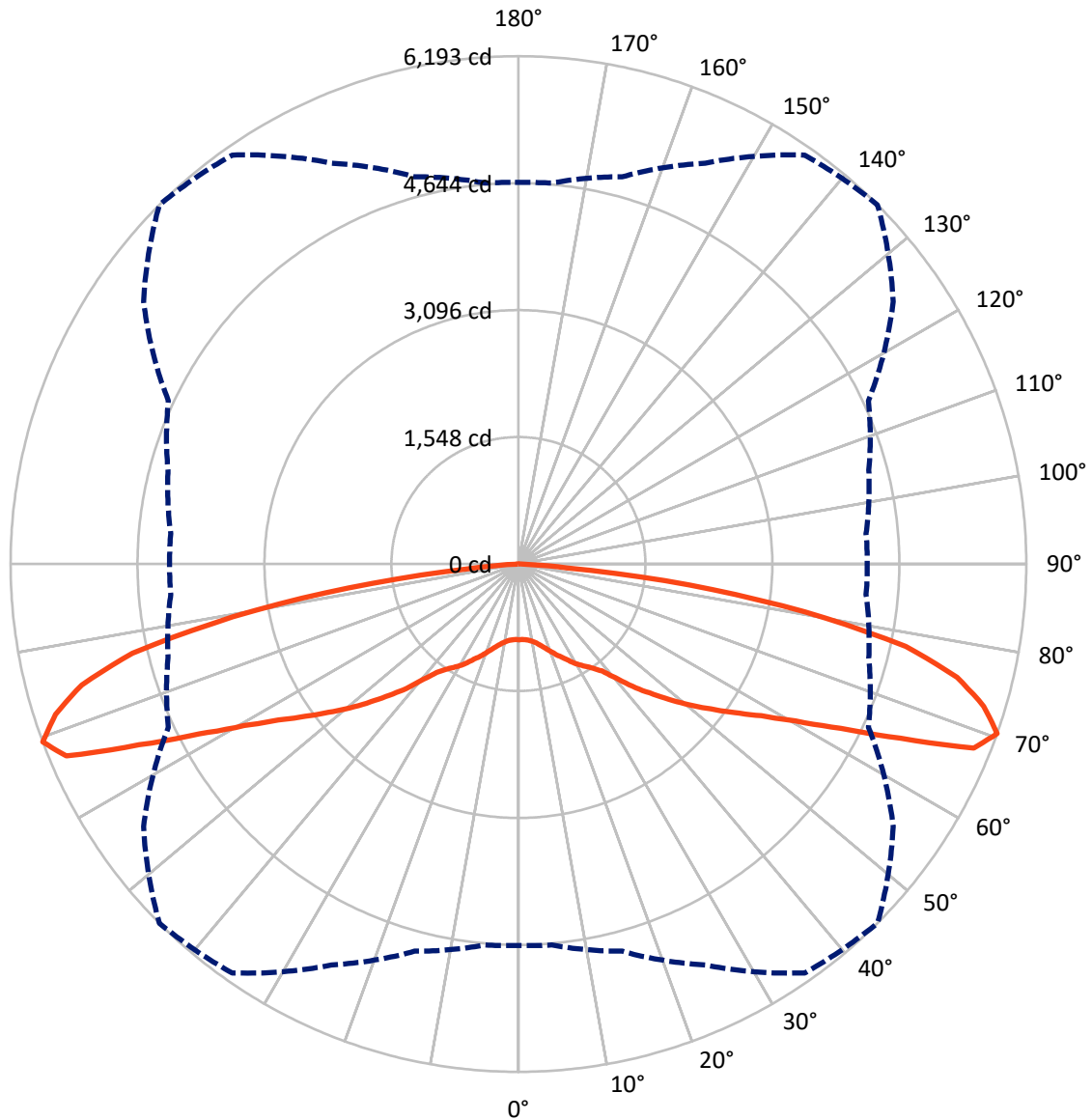
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509146
CATALOG NUMBER: VERD-CA2-110-760-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509146

CATALOG NUMBER: VERD-CA2-110-760-U-T5

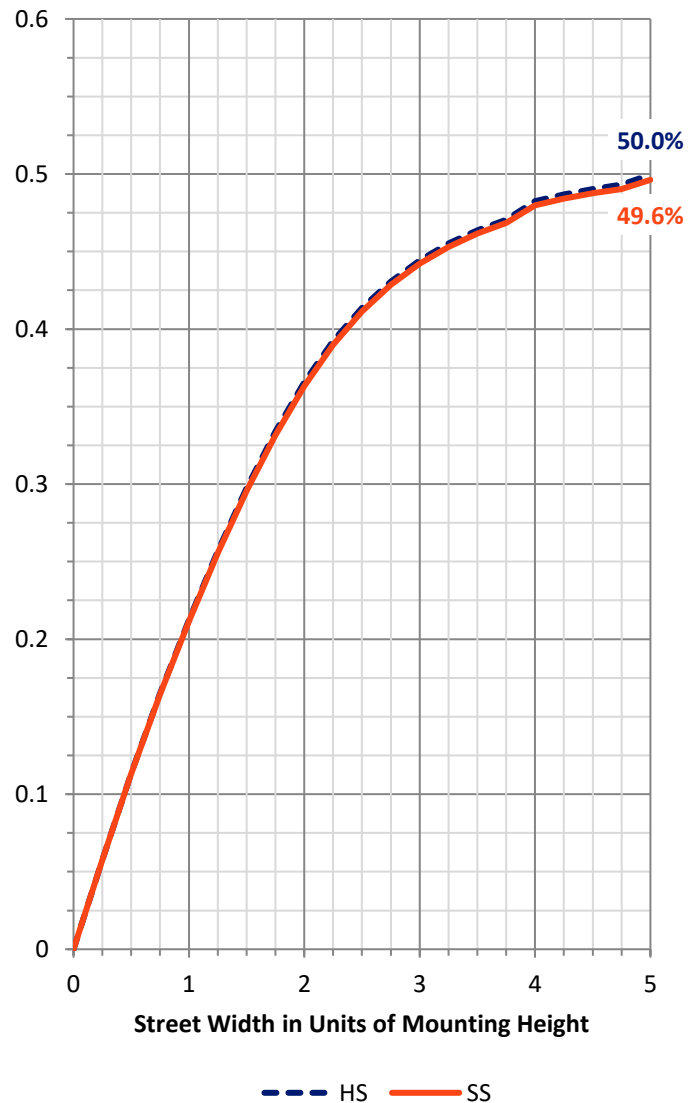
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8266.0	0.0	8266.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8266.0	0.0	8266.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16532.0	0.0	16532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	0.5
10°-20°	295.3	1.8
20°-30°	580.1	3.5
30°-40°	994.9	6.0
40°-50°	1826.7	11.0
50°-60°	3074.3	18.6
60°-70°	4857.4	29.4
70°-80°	4145.2	25.1
80°-90°	668.3	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°	16532.0	100.0
0°-180°	16532.0	100.0



REPORT NUMBER: P509146

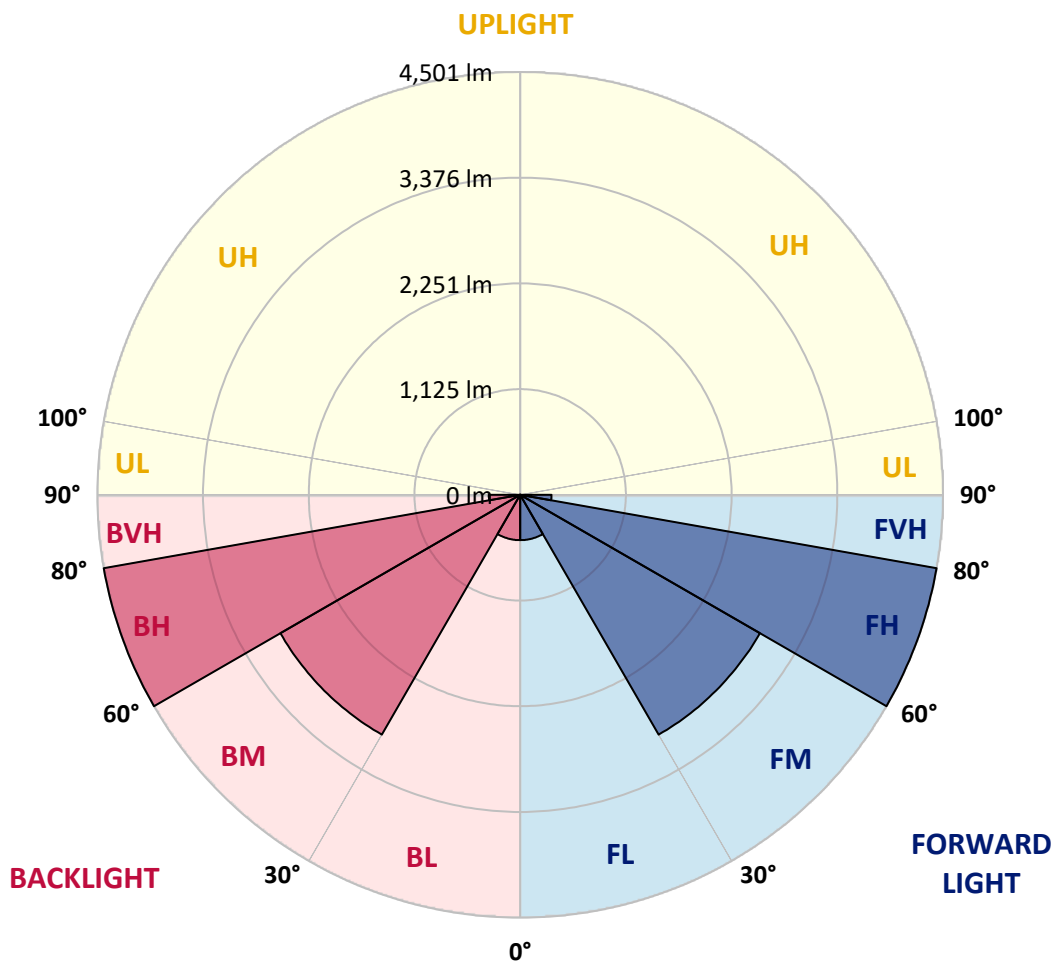
CATALOG NUMBER: VERD-CA2-110-760-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.6	2.9			
FM (30°-60°)	2947.9	17.8			
FH (60°-80°)	4501.3	27.2			G2/5000
FVH (80°-90°)	334.1	2.0			G3/500
BL (0°-30°)	482.6	2.9	B1/500		
BM (30°-60°)	2947.9	17.8	B3/5000		
BH (60°-80°)	4501.3	27.2	B4/5000		G2/5000
BVH (80°-90°)	334.1	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°	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1
2.5°	925.8	931.0	925.8	925.8	922.4	920.6	920.6	920.6	924.1	927.6	927.6
5°	932.8	936.3	931.0	931.0	927.6	927.6	927.6	927.6	931.0	934.5	932.8
7.5°	944.9	950.2	944.9	944.9	941.5	938.0	938.0	939.7	941.5	943.2	941.5
10°	965.8	972.7	965.8	969.3	962.3	960.6	958.8	958.8	960.6	960.6	960.6
12.5°	991.8	997.1	993.6	997.1	990.1	990.1	984.9	984.9	983.2	983.2	983.2
15°	1026.6	1033.5	1030.1	1035.3	1031.8	1031.8	1026.6	1021.4	1019.6	1019.6	1019.6
17.5°	1068.3	1075.2	1073.5	1082.2	1078.7	1082.2	1071.7	1063.1	1064.8	1064.8	1063.1
20°	1116.9	1123.9	1123.9	1136.0	1136.0	1139.5	1125.6	1116.9	1113.4	1115.2	1113.4
22.5°	1170.8	1177.7	1176.0	1195.1	1205.5	1205.5	1186.4	1179.4	1172.5	1174.2	1170.8
25°	1229.8	1238.5	1229.8	1247.2	1264.6	1266.3	1250.7	1233.3	1233.3	1242.0	1238.5
27.5°	1280.2	1290.6	1285.4	1292.3	1330.6	1341.0	1316.7	1297.6	1301.0	1308.0	1302.8
30°	1341.0	1349.7	1341.0	1346.2	1382.7	1417.4	1372.3	1367.0	1374.0	1380.9	1380.9
32.5°	1419.2	1429.6	1413.9	1419.2	1431.3	1485.2	1445.2	1452.2	1467.8	1483.4	1483.4
35°	1511.2	1521.6	1506.0	1506.0	1511.2	1556.4	1544.2	1565.1	1596.3	1629.3	1636.3
37.5°	1627.6	1632.8	1615.4	1608.5	1618.9	1655.4	1672.8	1719.7	1770.0	1830.8	1841.3
40°	1785.7	1792.6	1768.3	1761.3	1768.3	1820.4	1869.0	1952.4	2021.9	2086.2	2093.1
42.5°	2020.2	2041.0	2016.7	1994.1	1994.1	2041.0	2108.8	2209.5	2298.1	2339.8	2350.2
45°	2279.0	2298.1	2246.0	2216.4	2204.3	2242.5	2317.2	2435.3	2518.7	2586.4	2581.2
47.5°	2586.4	2579.5	2530.9	2478.7	2440.5	2464.8	2534.3	2636.8	2727.1	2787.9	2789.7
50°	2930.4	2928.6	2864.4	2761.9	2688.9	2699.3	2746.2	2855.7	2946.0	3003.3	3017.2
52.5°	3296.9	3284.7	3199.6	3081.5	2972.1	2937.3	2956.4	3053.7	3151.0	3217.0	3217.0
55°	3663.4	3647.8	3576.5	3420.2	3289.9	3196.1	3182.2	3279.5	3390.7	3470.6	3475.8
57.5°	4042.1	4045.5	3969.1	3835.4	3635.6	3491.4	3453.2	3564.4	3682.5	3755.5	3774.6
60°	4427.7	4424.2	4365.2	4271.4	4071.6	3884.0	3821.5	3885.7	4035.1	4092.4	4115.0
62.5°	4919.3	4931.4	4844.6	4778.6	4589.2	4408.6	4290.5	4353.0	4500.6	4580.5	4582.3
65°	5185.0	5209.3	5247.6	5367.4	5304.9	5120.8	4971.4	4898.4	4853.3	4827.2	4811.6
67.5°	5035.6	5037.4	5202.4	5508.1	5869.4	5987.5	5417.8	4907.1	4719.5	4667.4	4653.5
70°	4651.8	4662.2	4888.0	5393.5	6086.5	6192.5	5579.3	4709.1	4422.5	4255.7	4254.0
72.5°	3887.5	4014.3	4311.3	5060.0	5945.8	5933.7	5320.5	4389.5	3937.8	3772.8	3753.7
75°	3076.3	3112.8	3524.4	4366.9	5424.7	5525.5	4943.6	3816.3	3291.7	3074.5	3062.4
77.5°	1966.3	1999.3	2452.7	3388.9	4584.0	4828.9	4217.5	3048.5	2461.4	2157.4	2148.7
80°	960.6	1054.4	1398.3	2206.0	3309.0	3540.1	2966.8	1948.9	1457.4	1170.8	1146.4
82.5°	394.3	415.1	680.9	1221.1	1942.0	2098.3	1516.4	906.7	538.5	356.1	330.0
85°	118.1	119.9	208.4	436.0	818.1	592.3	305.7	130.3	57.3	41.7	40.0
87.5°	20.8	22.6	38.2	52.1	50.4	22.6	20.8	19.1	19.1	19.1	20.8
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)