

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: P509162

Luminaire Tested: **VERD-CA2-120-727-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509162
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-CA2-120-727-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14983 lumens
Efficiency: N/A
Efficacy: 122.1 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): 122.7
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

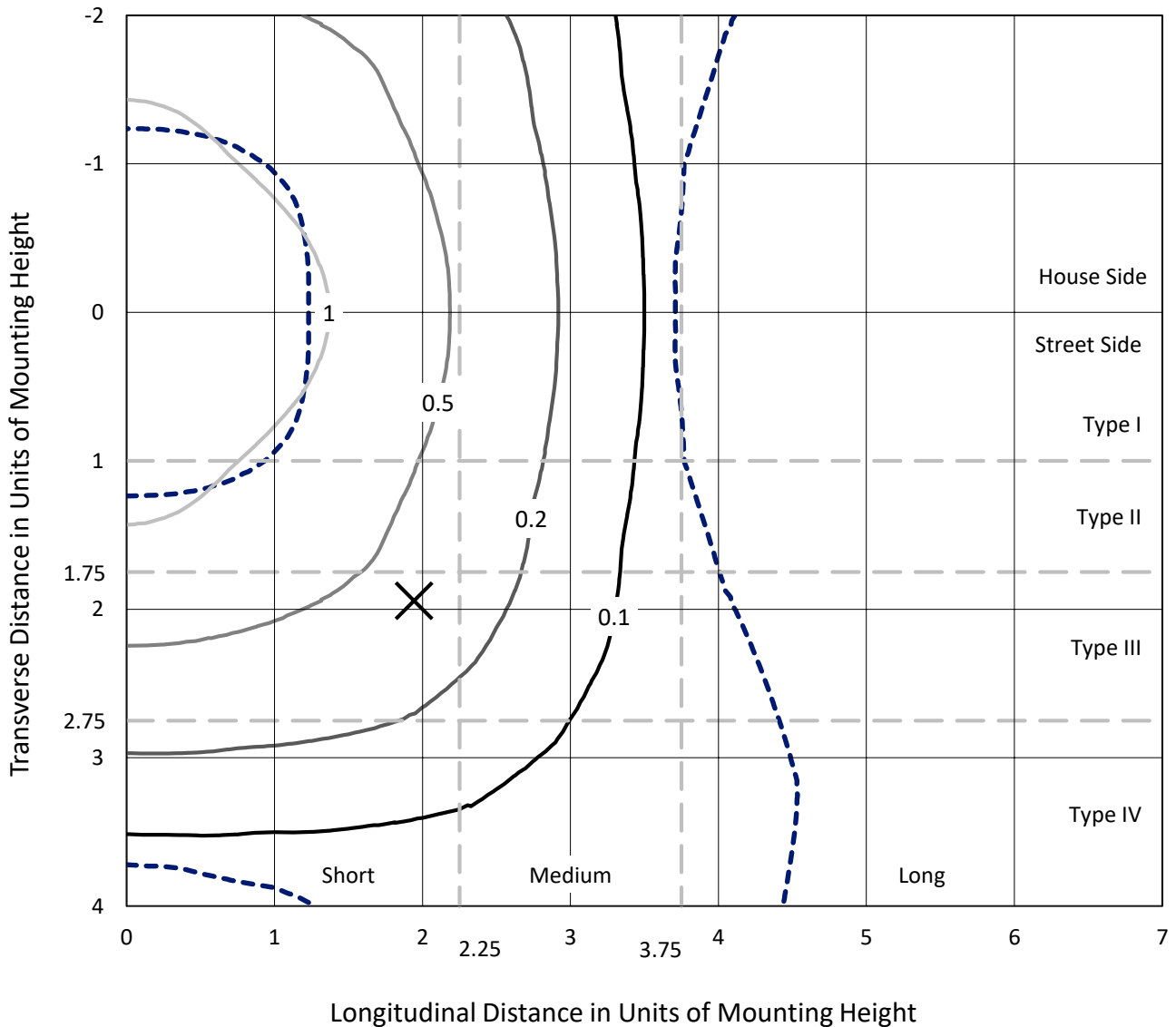


REPORT NUMBER: P509162

CATALOG NUMBER: VERD-CA2-120-727-U-T5

Iso-Footcandle Lines of Horizontal Illumination

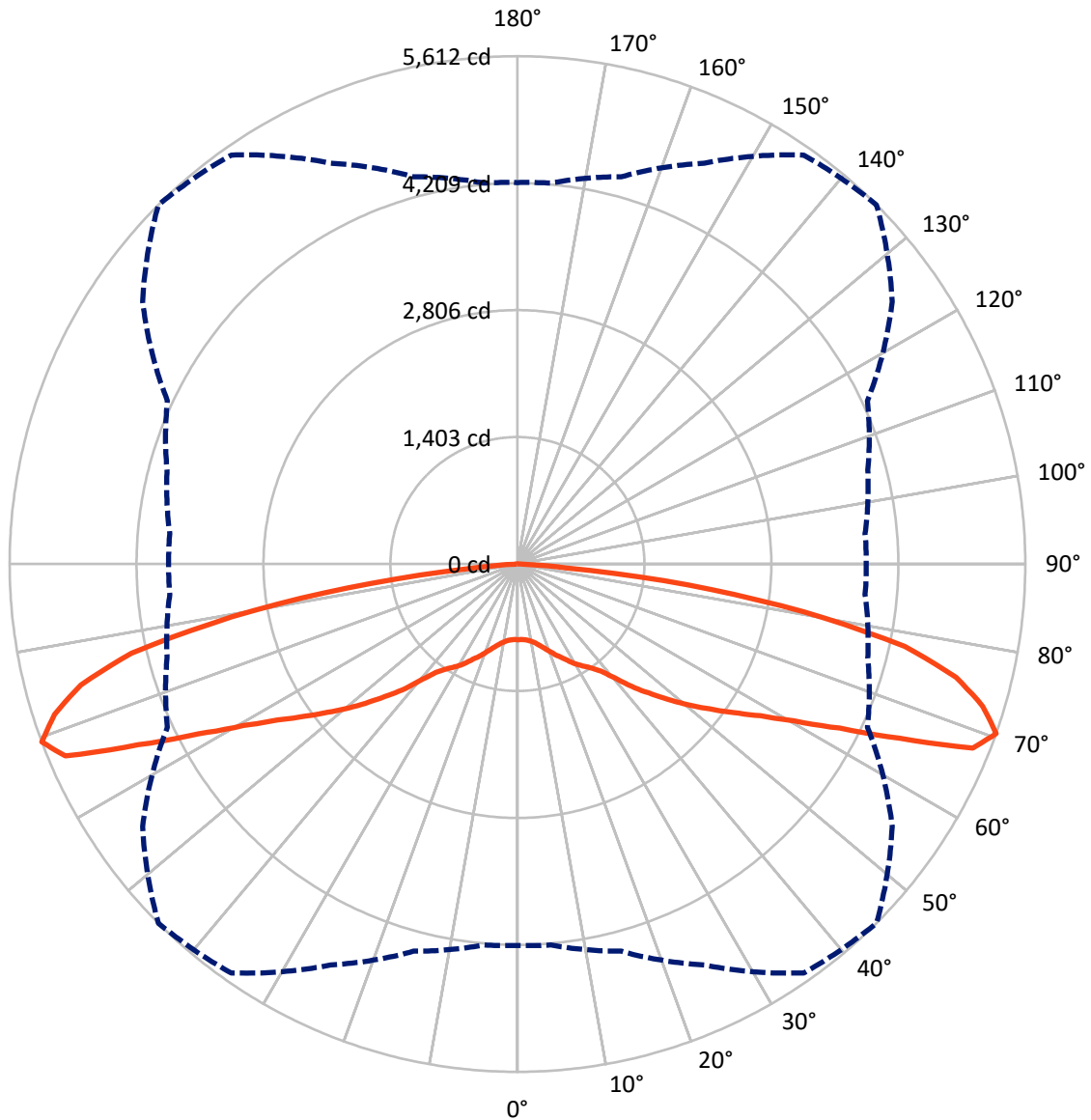
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

REPORT NUMBER: P509162
CATALOG NUMBER: VERD-CA2-120-727-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509162

CATALOG NUMBER: VERD-CA2-120-727-U-T5

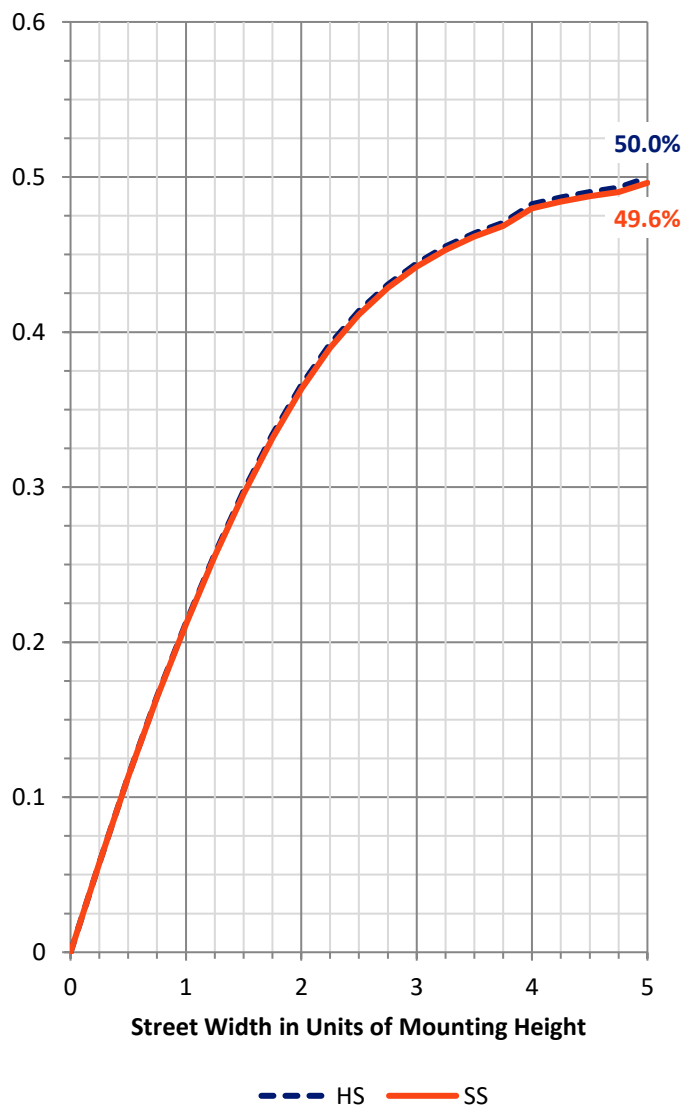
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7491.5	0.0	7491.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7491.5	0.0	7491.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14983.0	0.0	14983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	0.5
10°-20°	267.6	1.8
20°-30°	525.7	3.5
30°-40°	901.6	6.0
40°-50°	1655.6	11.0
50°-60°	2786.2	18.6
60°-70°	4402.3	29.4
70°-80°	3756.8	25.1
80°-90°	605.7	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°	14983.0	100.0
0°-180°	14983.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509162

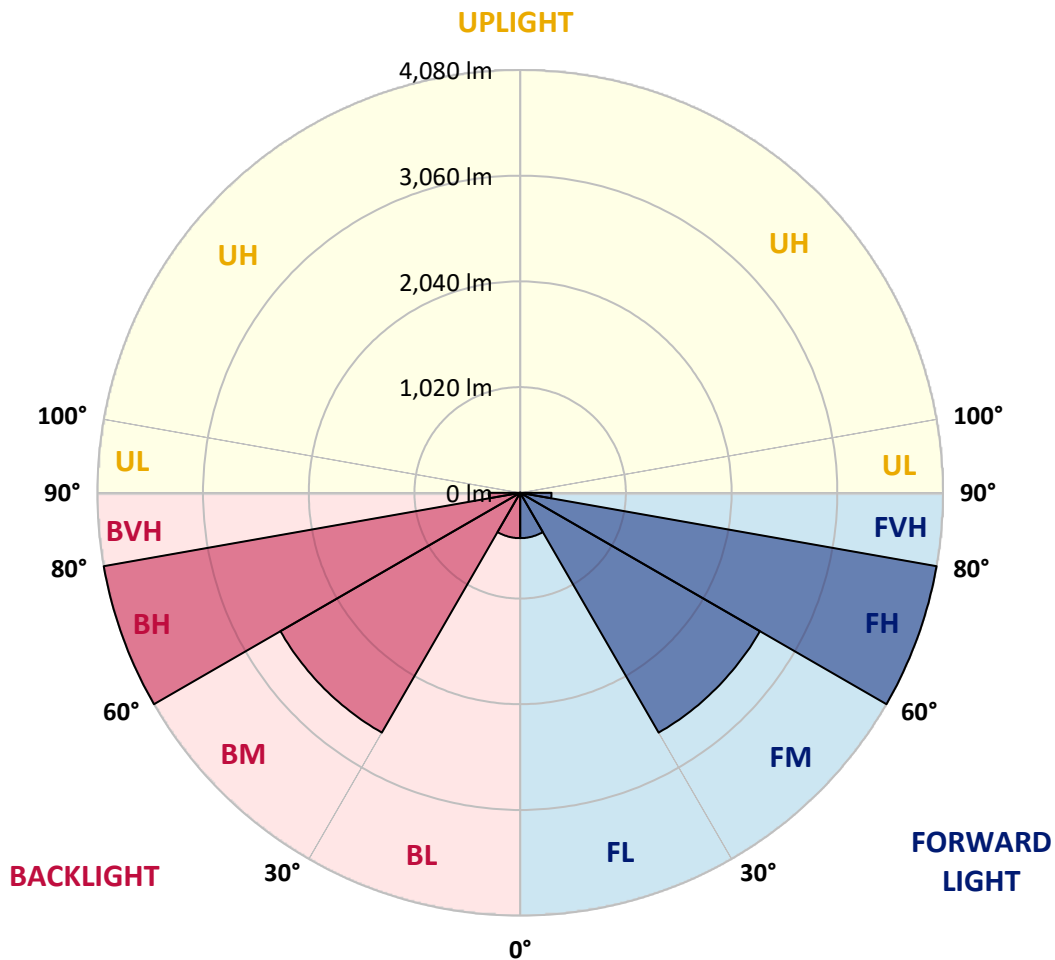
CATALOG NUMBER: VERD-CA2-120-727-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.4	2.9			
FM (30°-60°)	2671.7	17.8			
FH (60°-80°)	4079.6	27.2			G2/5000
FVH (80°-90°)	302.8	2.0			G3/500
BL (0°-30°)	437.4	2.9	B1/500		
BM (30°-60°)	2671.7	17.8	B3/5000		
BH (60°-80°)	4079.6	27.2	B4/5000		G2/5000
BVH (80°-90°)	302.8	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: P509162
 CATALOG NUMBER: VERD-CA2-120-727-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5	837.5
2.5°	839.1	843.8	839.1	839.1	835.9	834.4	834.4	834.4	837.5	840.7	840.7
5°	845.4	848.5	843.8	843.8	840.7	840.7	840.7	840.7	843.8	847.0	845.4
7.5°	856.4	861.1	856.4	856.4	853.3	850.1	850.1	851.7	853.3	854.8	853.3
10°	875.3	881.6	875.3	878.4	872.1	870.6	869.0	869.0	870.6	870.6	870.6
12.5°	898.9	903.6	900.5	903.6	897.3	897.3	892.6	892.6	891.0	891.0	891.0
15°	930.4	936.7	933.5	938.3	935.1	935.1	930.4	925.7	924.1	924.1	924.1
17.5°	968.2	974.5	972.9	980.8	977.6	980.8	971.3	963.5	965.0	965.0	963.5
20°	1012.3	1018.6	1018.6	1029.6	1029.6	1032.7	1020.1	1012.3	1009.1	1010.7	1009.1
22.5°	1061.1	1067.4	1065.8	1083.1	1092.5	1092.5	1075.2	1068.9	1062.6	1064.2	1061.1
25°	1114.6	1122.5	1114.6	1130.3	1146.1	1147.6	1133.5	1117.7	1117.7	1125.6	1122.5
27.5°	1160.2	1169.7	1165.0	1171.3	1205.9	1215.3	1193.3	1176.0	1179.1	1185.4	1180.7
30°	1215.3	1223.2	1215.3	1220.1	1253.1	1284.6	1243.7	1239.0	1245.3	1251.5	1251.5
32.5°	1286.2	1295.6	1281.5	1286.2	1297.2	1346.0	1309.8	1316.1	1330.3	1344.4	1344.4
35°	1369.6	1379.1	1364.9	1364.9	1369.6	1410.5	1399.5	1418.4	1446.8	1476.7	1483.0
37.5°	1475.1	1479.8	1464.1	1457.8	1467.2	1500.3	1516.0	1558.5	1604.2	1659.3	1668.7
40°	1618.4	1624.7	1602.6	1596.3	1602.6	1649.8	1693.9	1769.5	1832.5	1890.7	1897.0
42.5°	1830.9	1849.8	1827.7	1807.3	1807.3	1849.8	1911.2	2002.5	2082.8	2120.5	2130.0
45°	2065.4	2082.8	2035.5	2008.8	1997.8	2032.4	2100.1	2207.1	2282.7	2344.1	2339.4
47.5°	2344.1	2337.8	2293.7	2246.5	2211.9	2233.9	2296.9	2389.7	2471.6	2526.7	2528.3
50°	2655.8	2654.2	2596.0	2503.1	2437.0	2446.4	2488.9	2588.1	2670.0	2721.9	2734.5
52.5°	2988.0	2977.0	2899.8	2792.8	2693.6	2662.1	2679.4	2767.6	2855.7	2915.6	2915.6
55°	3320.1	3306.0	3241.4	3099.7	2981.7	2896.7	2884.1	2972.2	3073.0	3145.4	3150.1
57.5°	3663.3	3666.5	3597.2	3476.0	3295.0	3164.3	3129.7	3230.4	3337.5	3403.6	3420.9
60°	4012.8	4009.7	3956.2	3871.1	3690.1	3520.1	3463.4	3521.7	3657.0	3709.0	3729.5
62.5°	4458.3	4469.4	4390.7	4330.8	4159.2	3995.5	3888.5	3945.1	4078.9	4151.4	4152.9
65°	4699.2	4721.2	4755.9	4864.5	4807.8	4641.0	4505.6	4439.5	4398.5	4374.9	4360.7
67.5°	4563.8	4565.4	4715.0	4992.0	5319.5	5426.5	4910.2	4447.3	4277.3	4230.1	4217.5
70°	4215.9	4225.4	4430.0	4888.1	5516.3	5612.3	5056.6	4267.9	4008.1	3857.0	3855.4
72.5°	3523.2	3638.1	3907.3	4585.9	5388.7	5377.7	4822.0	3978.2	3568.9	3419.3	3402.0
75°	2788.0	2821.1	3194.2	3957.7	4916.5	5007.8	4480.4	3458.7	2983.2	2786.5	2775.4
77.5°	1782.1	1812.0	2222.9	3071.4	4154.5	4376.5	3822.3	2762.9	2230.7	1955.2	1947.4
80°	870.6	955.6	1267.3	1999.3	2999.0	3208.4	2688.9	1766.3	1320.8	1061.1	1039.0
82.5°	357.4	376.3	617.1	1106.7	1760.0	1901.7	1374.3	821.8	488.0	322.7	299.1
85°	107.1	108.6	188.9	395.1	741.5	536.8	277.1	118.1	52.0	37.8	36.2
87.5°	18.9	20.5	34.6	47.2	45.7	20.5	18.9	17.3	17.3	17.3	18.9
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)