

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: P509138

Luminaire Tested: **VERD-CA2-110-750-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509138
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-CA2-110-750-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16890 lumens
Efficiency: N/A
Efficacy: 148.7 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

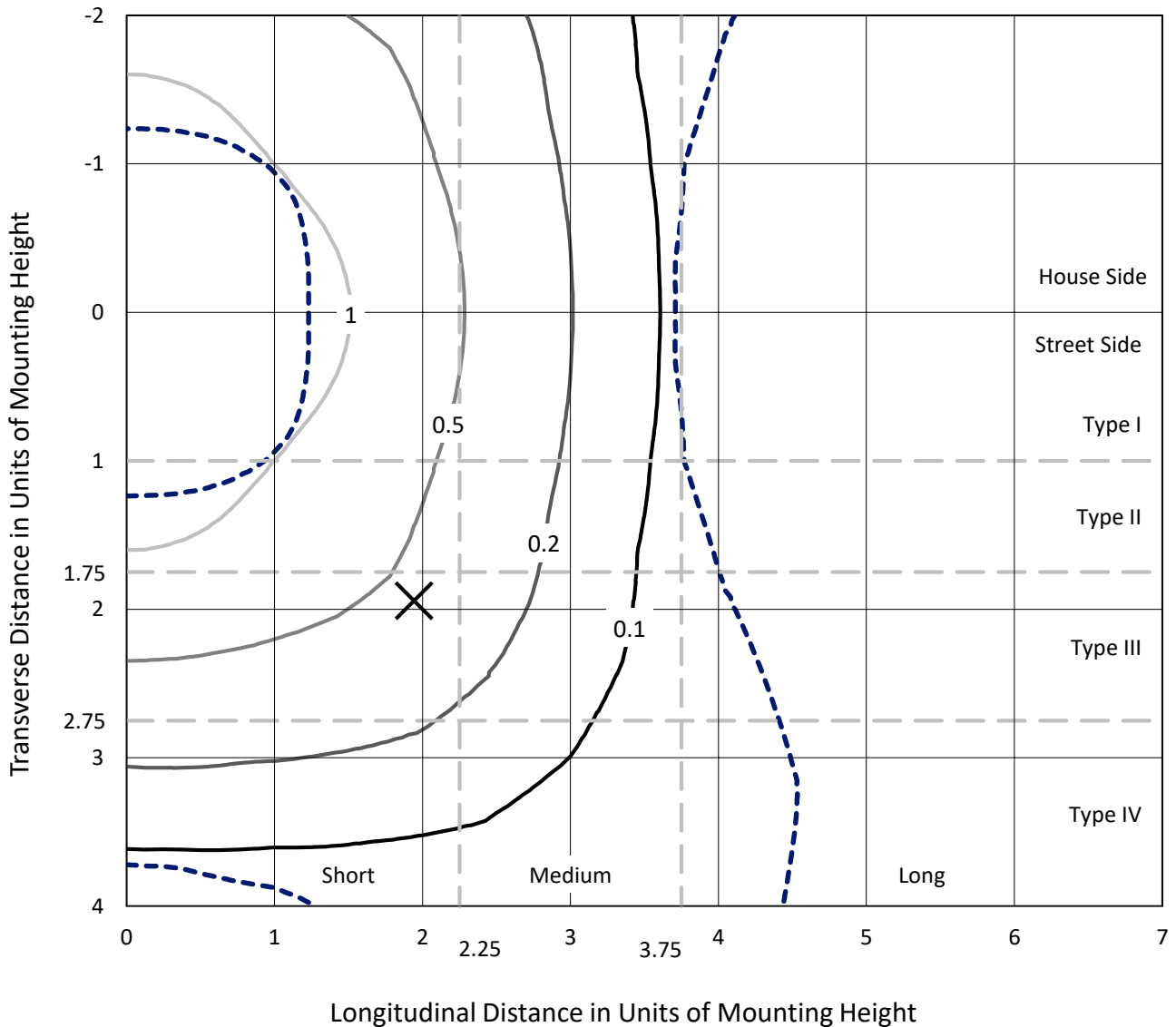


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Iso-Footcandle Lines of Horizontal Illumination

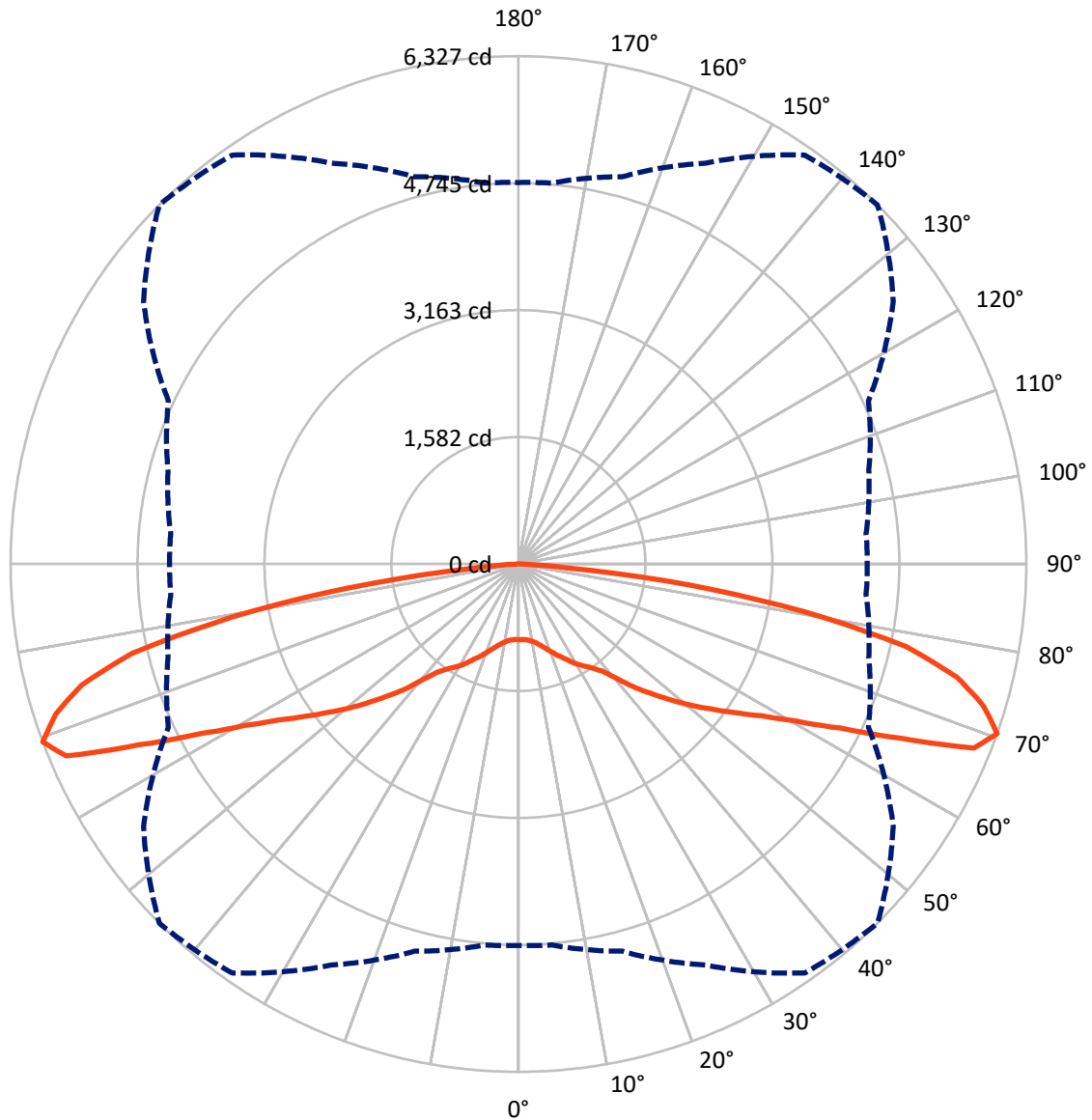
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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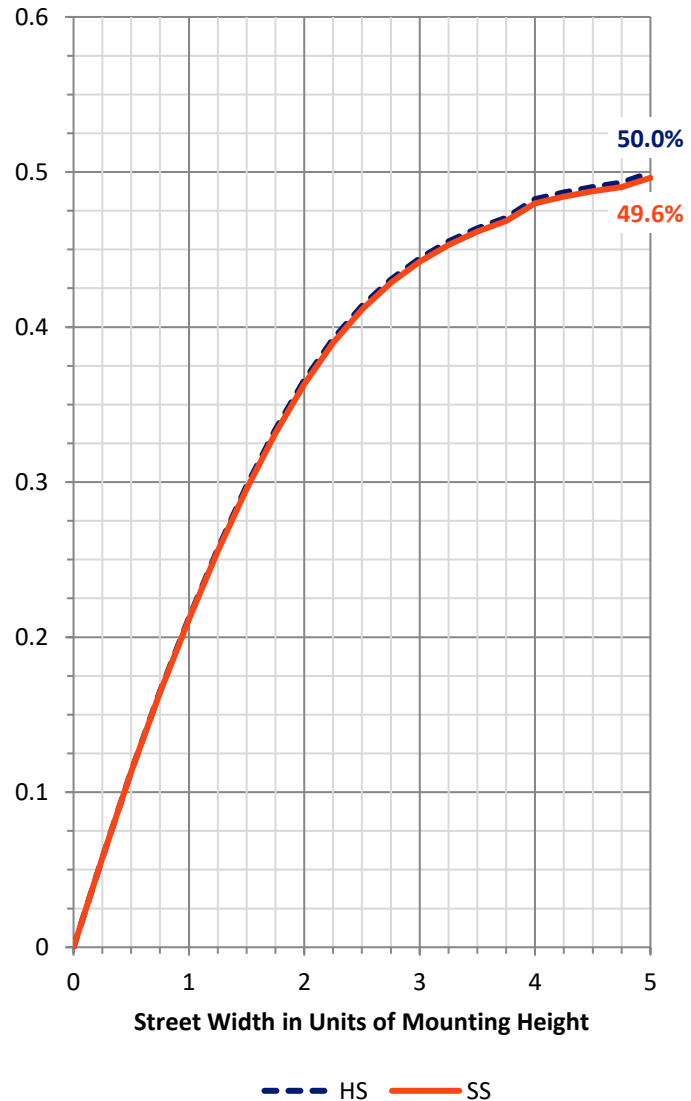
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8445.0	0.0	8445.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8445.0	0.0	8445.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16890.0	0.0	16890.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	0.5
10°-20°	301.7	1.8
20°-30°	592.6	3.5
30°-40°	1016.4	6.0
40°-50°	1866.3	11.0
50°-60°	3140.8	18.6
60°-70°	4962.6	29.4
70°-80°	4234.9	25.1
80°-90°	682.8	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°	16890.0	100.0
0°-180°	16890.0	100.0



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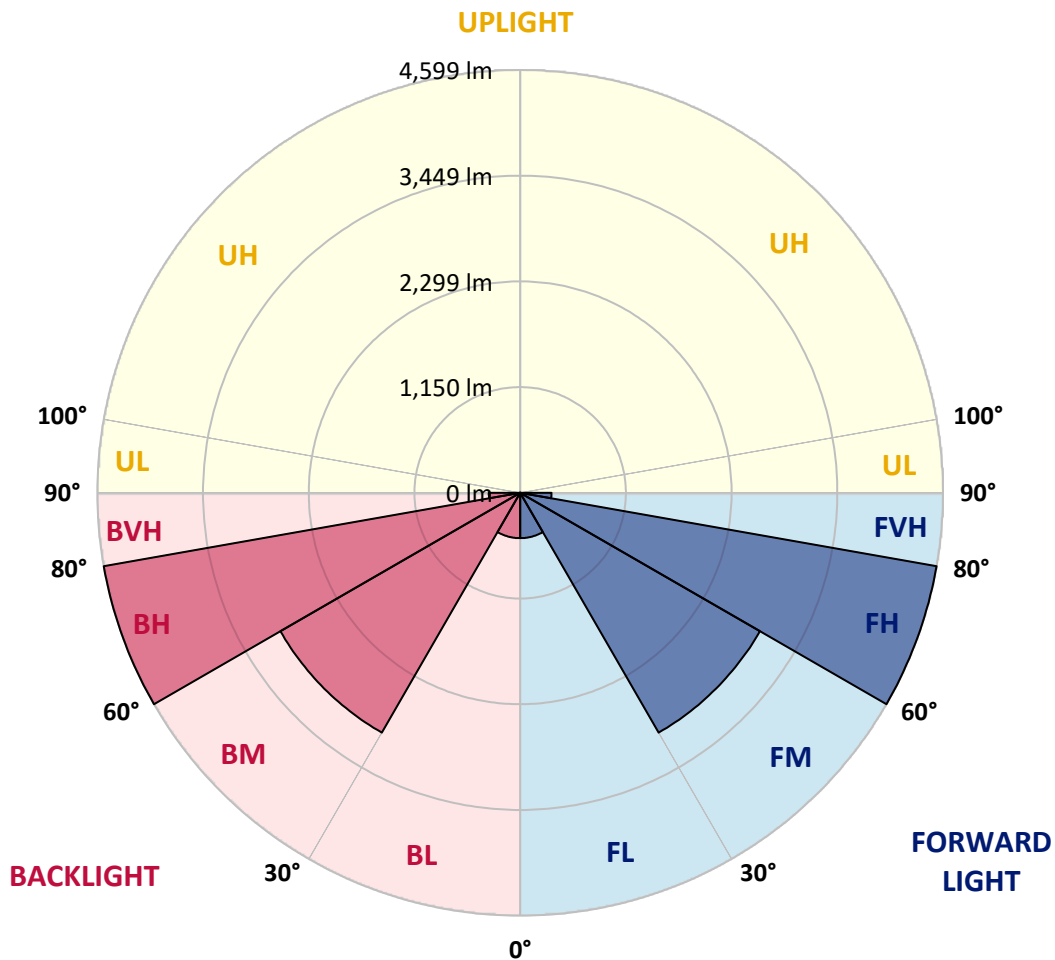
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.1	2.9			
FM	(30°-60°)	3011.8	17.8			
FH	(60°-80°)	4598.8	27.2			G2/5000
FVH	(80°-90°)	341.4	2.0			G3/500
BL	(0°-30°)	493.1	2.9	B1/500		
BM	(30°-60°)	3011.8	17.8	B3/5000		
BH	(60°-80°)	4598.8	27.2	B4/5000		G2/5000
BVH	(80°-90°)	341.4	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°	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1
2.5°	945.9	951.2	945.9	945.9	942.3	940.6	940.6	940.6	944.1	947.7	947.7
5°	953.0	956.5	951.2	951.2	947.7	947.7	947.7	947.7	951.2	954.8	953.0
7.5°	965.4	970.7	965.4	965.4	961.9	958.3	958.3	960.1	961.9	963.6	961.9
10°	986.7	993.8	986.7	990.3	983.2	981.4	979.6	979.6	981.4	981.4	981.4
12.5°	1013.3	1018.6	1015.1	1018.6	1011.5	1011.5	1006.2	1006.2	1004.4	1004.4	1004.4
15°	1048.8	1055.9	1052.4	1057.7	1054.1	1054.1	1048.8	1043.5	1041.7	1041.7	1041.7
17.5°	1091.4	1098.5	1096.7	1105.6	1102.1	1105.6	1095.0	1086.1	1087.9	1087.9	1086.1
20°	1141.1	1148.2	1148.2	1160.6	1160.6	1164.2	1150.0	1141.1	1137.5	1139.3	1137.5
22.5°	1196.1	1203.2	1201.4	1221.0	1231.6	1231.6	1212.1	1205.0	1197.9	1199.7	1196.1
25°	1256.4	1265.3	1256.4	1274.2	1291.9	1293.7	1277.7	1260.0	1260.0	1268.9	1265.3
27.5°	1307.9	1318.6	1313.2	1320.3	1359.4	1370.0	1345.2	1325.7	1329.2	1336.3	1331.0
30°	1370.0	1378.9	1370.0	1375.3	1412.6	1448.1	1402.0	1396.6	1403.7	1410.8	1410.8
32.5°	1449.9	1460.5	1444.6	1449.9	1462.3	1517.3	1476.5	1483.6	1499.6	1515.5	1515.5
35°	1543.9	1554.6	1538.6	1538.6	1543.9	1590.1	1577.7	1599.0	1630.9	1664.6	1671.7
37.5°	1662.8	1668.2	1650.4	1643.3	1654.0	1691.2	1709.0	1756.9	1808.4	1870.5	1881.1
40°	1824.3	1831.4	1806.6	1799.5	1806.6	1859.8	1909.5	1994.7	2065.7	2131.3	2138.4
42.5°	2063.9	2085.2	2060.4	2037.3	2037.3	2085.2	2154.4	2257.3	2347.9	2390.4	2401.1
45°	2328.3	2347.9	2294.6	2264.4	2252.0	2291.1	2367.4	2488.1	2573.2	2642.4	2637.1
47.5°	2642.4	2635.3	2585.7	2532.4	2493.4	2518.2	2589.2	2693.9	2786.2	2848.3	2850.1
50°	2993.8	2992.0	2926.4	2821.7	2747.1	2757.8	2805.7	2917.5	3009.8	3068.4	3082.6
52.5°	3368.3	3355.9	3268.9	3148.2	3036.4	3000.9	3020.4	3119.8	3219.2	3286.6	3286.6
55°	3742.7	3726.8	3654.0	3494.3	3361.2	3265.3	3251.1	3350.5	3464.1	3545.7	3551.1
57.5°	4129.6	4133.1	4055.1	3918.4	3714.3	3567.0	3528.0	3641.6	3762.2	3836.8	3856.3
60°	4523.6	4520.0	4459.7	4363.8	4159.8	3968.1	3904.2	3969.9	4122.5	4181.1	4204.1
62.5°	5025.8	5038.2	4949.5	4882.0	4688.6	4504.0	4383.4	4447.3	4598.1	4679.7	4681.5
65°	5297.3	5322.2	5361.2	5483.6	5419.8	5231.7	5079.0	5004.5	4958.4	4931.7	4915.8
67.5°	5144.7	5146.5	5315.1	5627.4	5996.5	6117.2	5535.1	5013.4	4821.7	4768.5	4754.3
70°	4752.5	4763.1	4993.8	5510.3	6218.4	6326.6	5700.2	4811.1	4518.2	4347.9	4346.1
72.5°	3971.7	4101.2	4404.7	5169.5	6074.6	6062.2	5435.7	4484.5	4023.1	3854.5	3835.0
75°	3142.9	3180.2	3600.8	4461.5	5542.2	5645.1	5050.6	3898.9	3363.0	3141.1	3128.7
77.5°	2008.9	2042.6	2505.8	3462.3	4683.3	4933.5	4308.8	3114.5	2514.7	2204.1	2195.2
80°	981.4	1077.2	1428.6	2253.8	3380.7	3616.7	3031.1	1991.2	1488.9	1196.1	1171.3
82.5°	402.8	424.1	695.7	1247.6	1984.1	2143.8	1549.3	926.4	550.1	363.8	337.2
85°	120.7	122.5	213.0	445.4	835.9	605.2	312.3	133.1	58.6	42.6	40.8
87.5°	21.3	23.1	39.0	53.2	51.5	23.1	21.3	19.5	19.5	19.5	21.3
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)