

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: P509178

Luminaire Tested: **VERD-CA2-120-740-U-T5**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509178
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-CA2-120-740-U-T5
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17693 lumens
Efficiency: N/A
Efficacy: 144.2 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

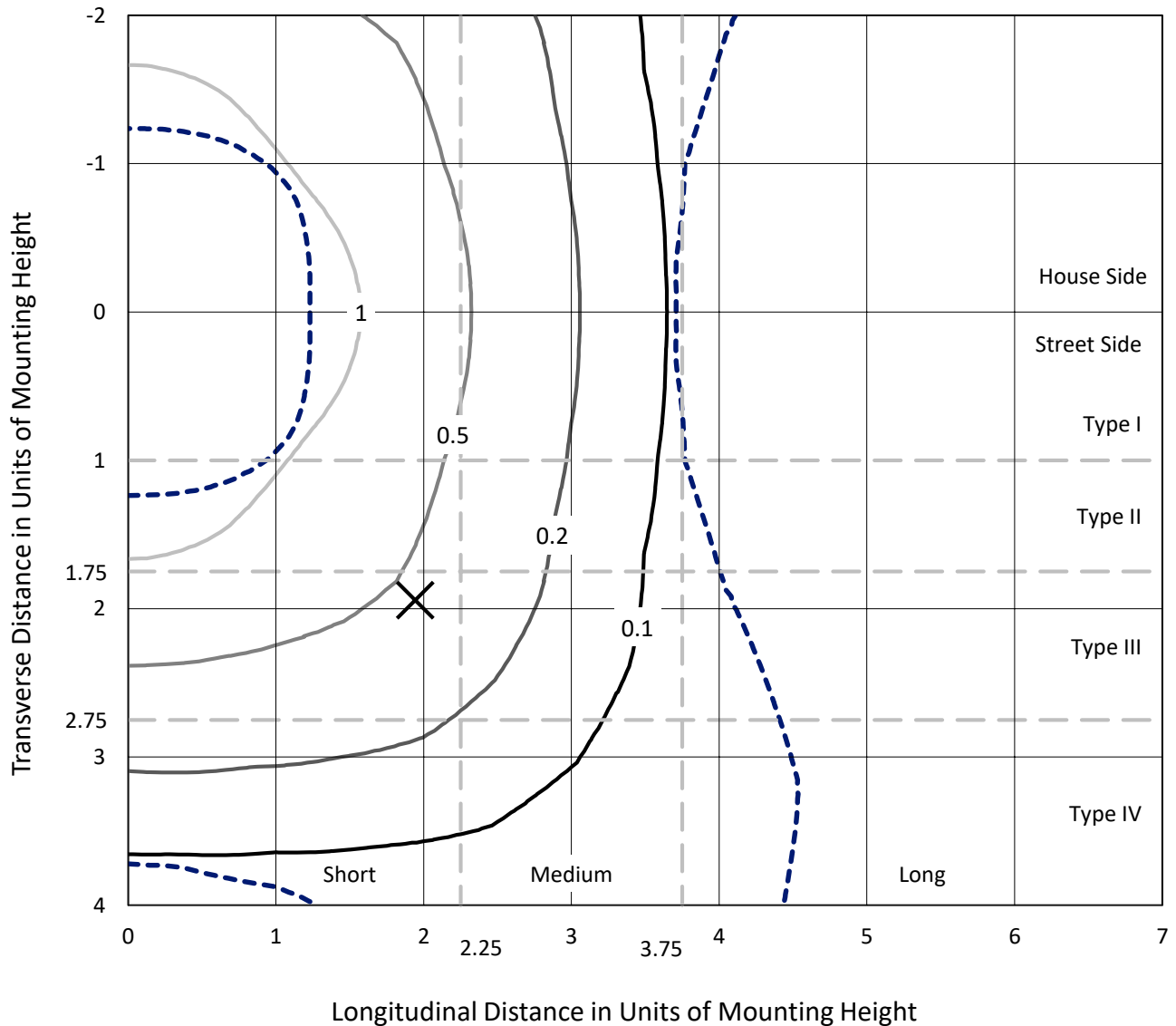
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

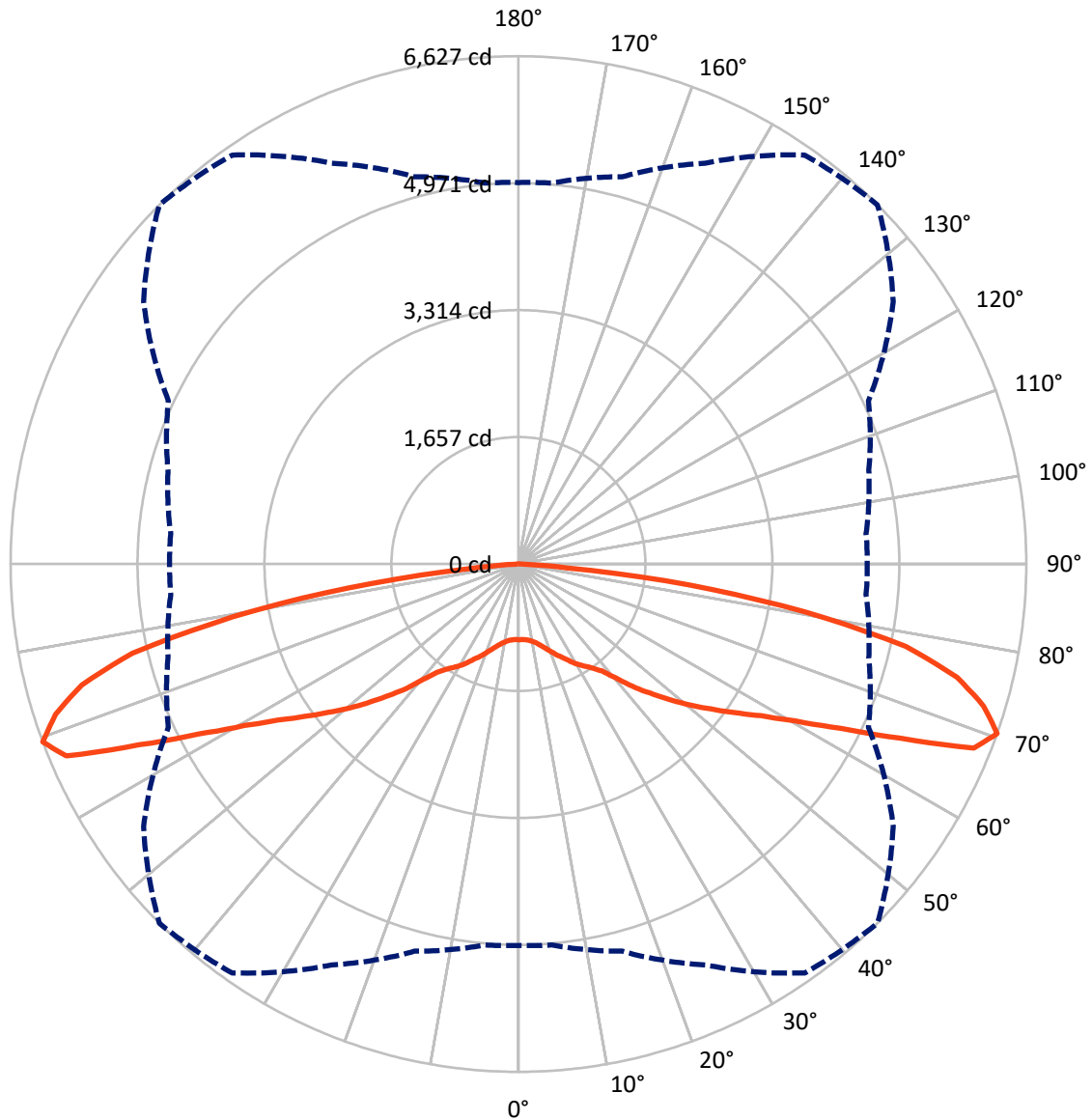
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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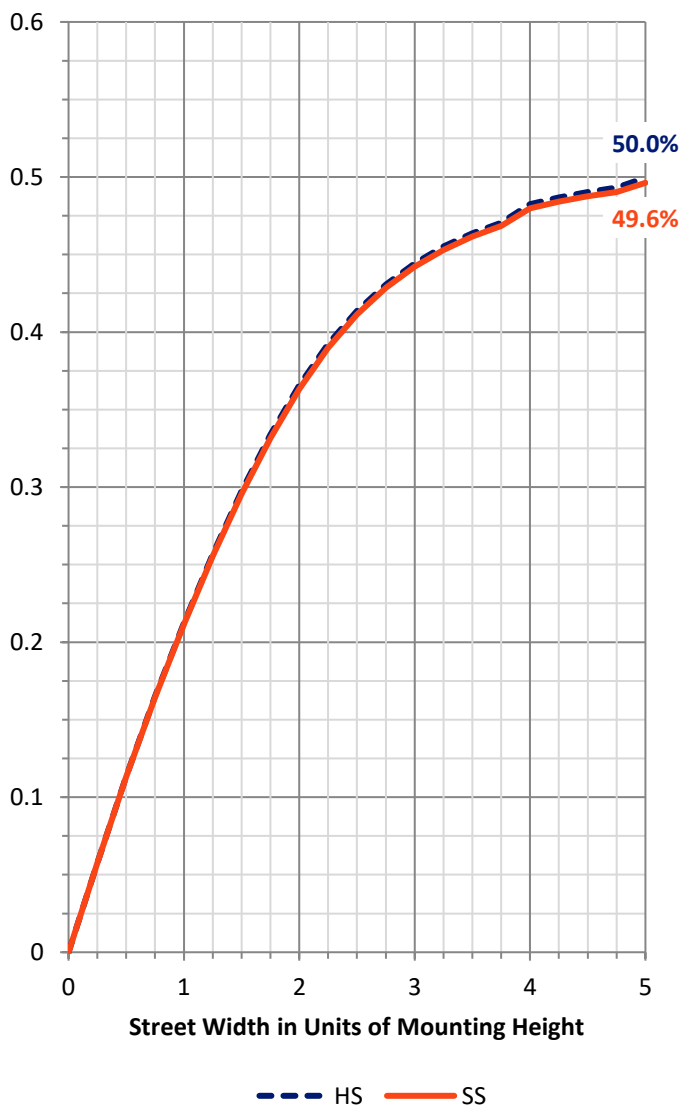
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8846.5	0.0	8846.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8846.5	0.0	8846.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17693.0	0.0	17693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	0.5
10°-20°	316.0	1.8
20°-30°	620.8	3.5
30°-40°	1064.7	6.0
40°-50°	1955.0	11.0
50°-60°	3290.2	18.6
60°-70°	5198.6	29.4
70°-80°	4436.3	25.1
80°-90°	715.2	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°	17693.0	100.0
0°-180°	17693.0	100.0

Coefficient of Utilization



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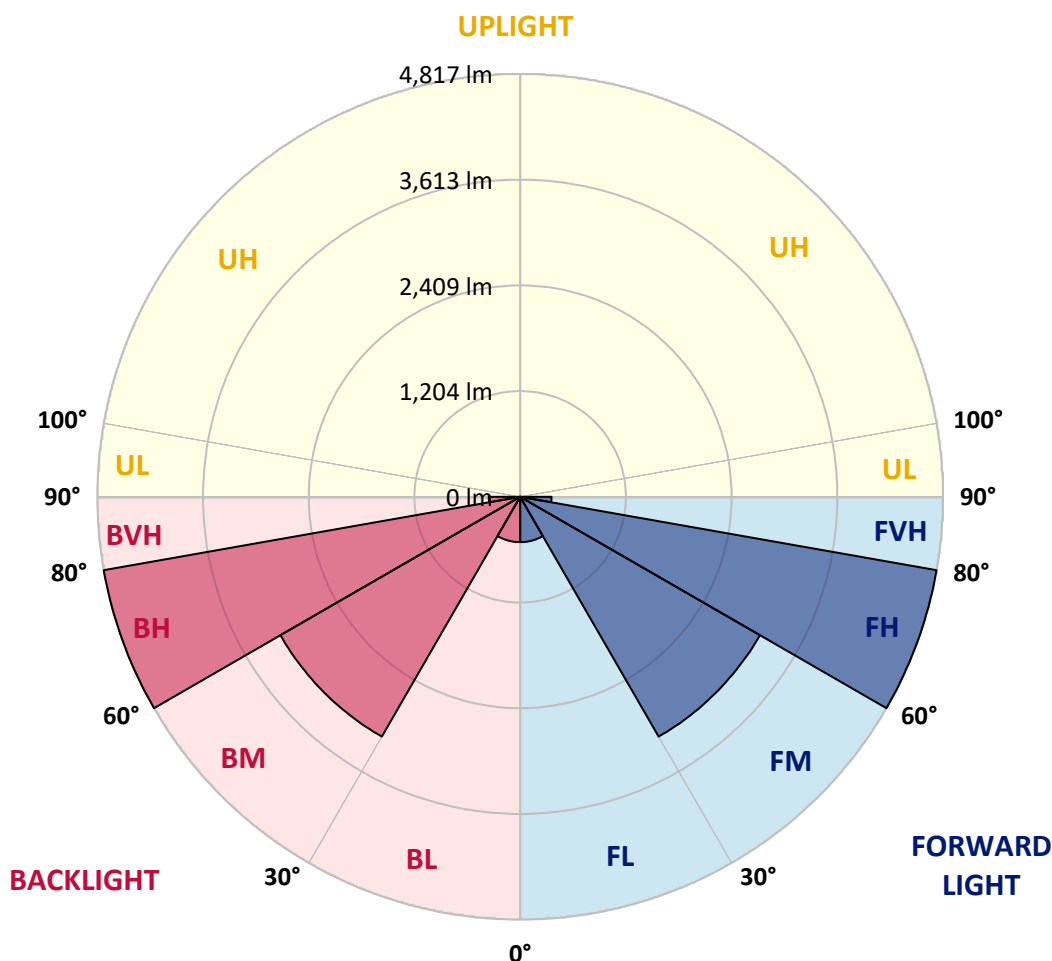
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.5	2.9			
FM	(30°-60°)	3155.0	17.8			
FH	(60°-80°)	4817.4	27.2			G2/5000
FVH	(80°-90°)	357.6	2.0			G3/500
BL	(0°-30°)	516.5	2.9	B2/1000		
BM	(30°-60°)	3155.0	17.8	B3/5000		
BH	(60°-80°)	4817.4	27.2	B4/5000		G2/5000
BVH	(80°-90°)	357.6	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°	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0	989.0
2.5°	990.9	996.4	990.9	990.9	987.1	985.3	985.3	985.3	989.0	992.7	992.7
5°	998.3	1002.0	996.4	996.4	992.7	992.7	992.7	992.7	996.4	1000.2	998.3
7.5°	1011.3	1016.9	1011.3	1011.3	1007.6	1003.9	1003.9	1005.7	1007.6	1009.4	1007.6
10°	1033.6	1041.0	1033.6	1037.3	1029.9	1028.0	1026.2	1026.2	1028.0	1028.0	1028.0
12.5°	1061.5	1067.1	1063.4	1067.1	1059.6	1059.6	1054.1	1054.1	1052.2	1052.2	1052.2
15°	1098.7	1106.1	1102.4	1108.0	1104.3	1104.3	1098.7	1093.1	1091.2	1091.2	1091.2
17.5°	1143.3	1150.7	1148.9	1158.2	1154.4	1158.2	1147.0	1137.7	1139.6	1139.6	1137.7
20°	1195.3	1202.8	1202.8	1215.8	1215.8	1219.5	1204.6	1195.3	1191.6	1193.5	1191.6
22.5°	1253.0	1260.4	1258.6	1279.0	1290.2	1290.2	1269.7	1262.3	1254.8	1256.7	1253.0
25°	1316.2	1325.5	1316.2	1334.8	1353.4	1355.2	1338.5	1319.9	1319.9	1329.2	1325.5
27.5°	1370.1	1381.2	1375.7	1383.1	1424.0	1435.2	1409.1	1388.7	1392.4	1399.8	1394.3
30°	1435.2	1444.5	1435.2	1440.7	1479.8	1517.0	1468.6	1463.0	1470.5	1477.9	1477.9
32.5°	1518.8	1530.0	1513.2	1518.8	1531.8	1589.5	1546.7	1554.1	1570.9	1587.6	1587.6
35°	1617.3	1628.5	1611.8	1611.8	1617.3	1665.7	1652.7	1675.0	1708.4	1743.8	1751.2
37.5°	1741.9	1747.5	1728.9	1721.4	1732.6	1771.6	1790.2	1840.4	1894.3	1959.4	1970.6
40°	1911.1	1918.5	1892.5	1885.0	1892.5	1948.2	2000.3	2089.5	2163.9	2232.7	2240.1
42.5°	2162.0	2184.3	2158.3	2134.2	2134.2	2184.3	2256.8	2364.7	2459.5	2504.1	2515.2
45°	2439.0	2459.5	2403.7	2372.1	2359.1	2400.0	2479.9	2606.3	2695.6	2768.1	2762.5
47.5°	2768.1	2760.6	2708.6	2652.8	2611.9	2637.9	2712.3	2822.0	2918.7	2983.7	2985.6
50°	3136.2	3134.3	3065.5	2955.8	2877.8	2888.9	2939.1	3056.2	3152.9	3214.2	3229.1
52.5°	3528.4	3515.4	3424.3	3297.9	3180.8	3143.6	3164.0	3268.1	3372.3	3442.9	3442.9
55°	3920.7	3903.9	3827.7	3660.4	3521.0	3420.6	3405.7	3509.8	3628.8	3714.3	3719.9
57.5°	4325.9	4329.6	4247.9	4104.7	3890.9	3736.6	3695.7	3814.7	3941.1	4019.2	4039.6
60°	4738.6	4734.9	4671.7	4571.3	4357.5	4156.8	4089.8	4158.6	4318.5	4379.8	4404.0
62.5°	5264.7	5277.7	5184.8	5114.2	4911.5	4718.2	4591.8	4658.7	4816.7	4902.2	4904.1
65°	5549.2	5575.2	5616.1	5744.4	5677.4	5480.4	5320.5	5242.4	5194.1	5166.2	5149.5
67.5°	5389.3	5391.1	5567.8	5894.9	6281.6	6408.0	5798.3	5251.7	5050.9	4995.2	4980.3
70°	4978.4	4989.6	5231.3	5772.2	6514.0	6627.4	5971.2	5039.8	4733.1	4554.6	4552.7
72.5°	4160.5	4296.2	4614.1	5415.3	6363.4	6350.4	5694.2	4697.7	4214.4	4037.8	4017.3
75°	3292.3	3331.4	3771.9	4673.6	5805.7	5913.5	5290.8	4084.3	3522.8	3290.5	3277.4
77.5°	2104.4	2139.7	2624.9	3626.9	4905.9	5168.1	4513.7	3262.6	2634.2	2308.9	2299.6
80°	1028.0	1128.4	1496.5	2360.9	3541.4	3788.7	3175.2	2085.8	1559.7	1253.0	1227.0
82.5°	422.0	444.3	728.7	1306.9	2078.4	2245.7	1622.9	970.4	576.3	381.1	353.2
85°	126.4	128.3	223.1	466.6	875.6	633.9	327.2	139.4	61.3	44.6	42.8
87.5°	22.3	24.2	40.9	55.8	53.9	24.2	22.3	20.4	20.4	20.4	22.3
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)