

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: P233647

Luminaire Tested: **VERD-C02H-D-U-T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-16)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H-D-U-T5  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15154 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

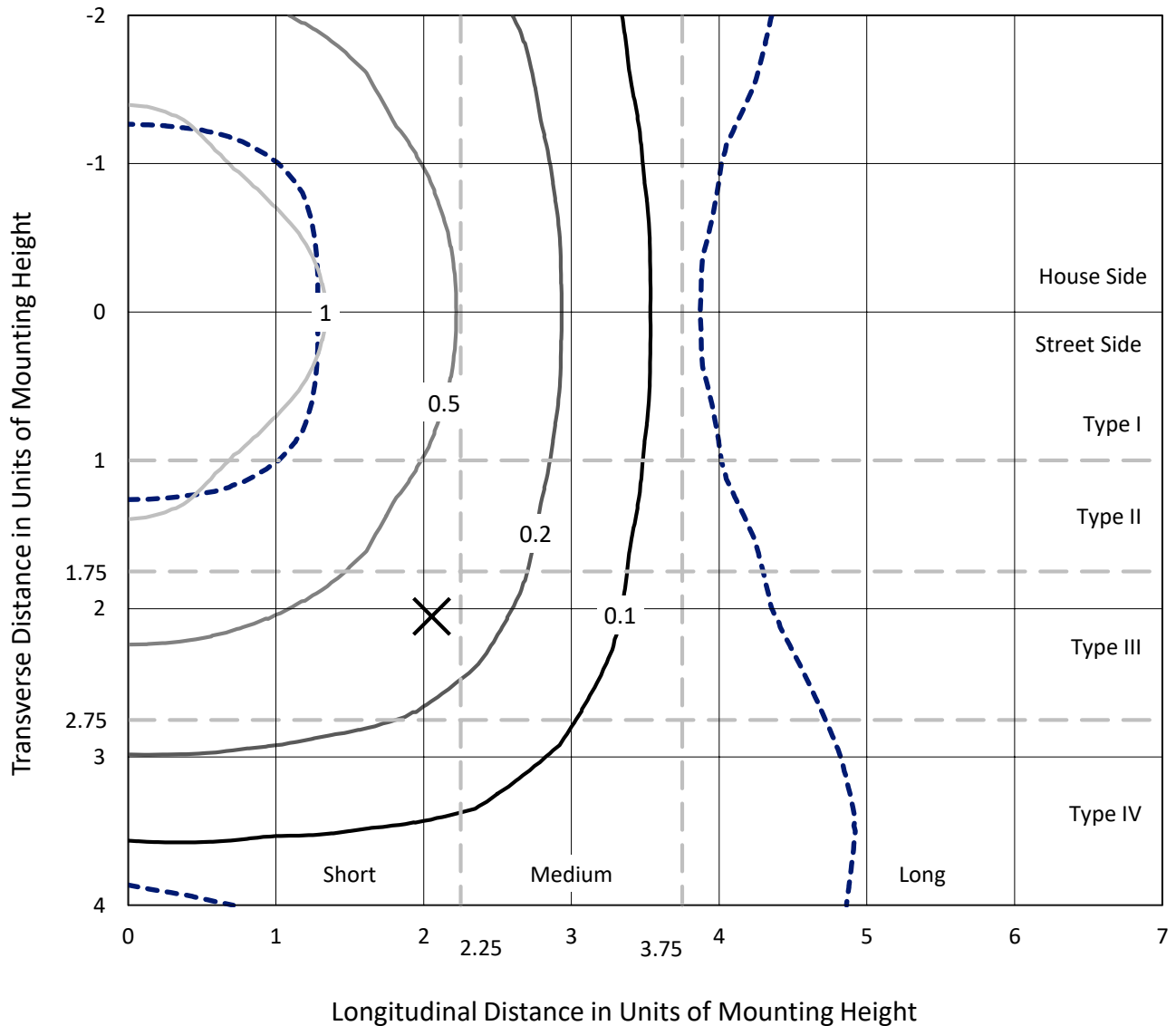
Input Watts (W): 120  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

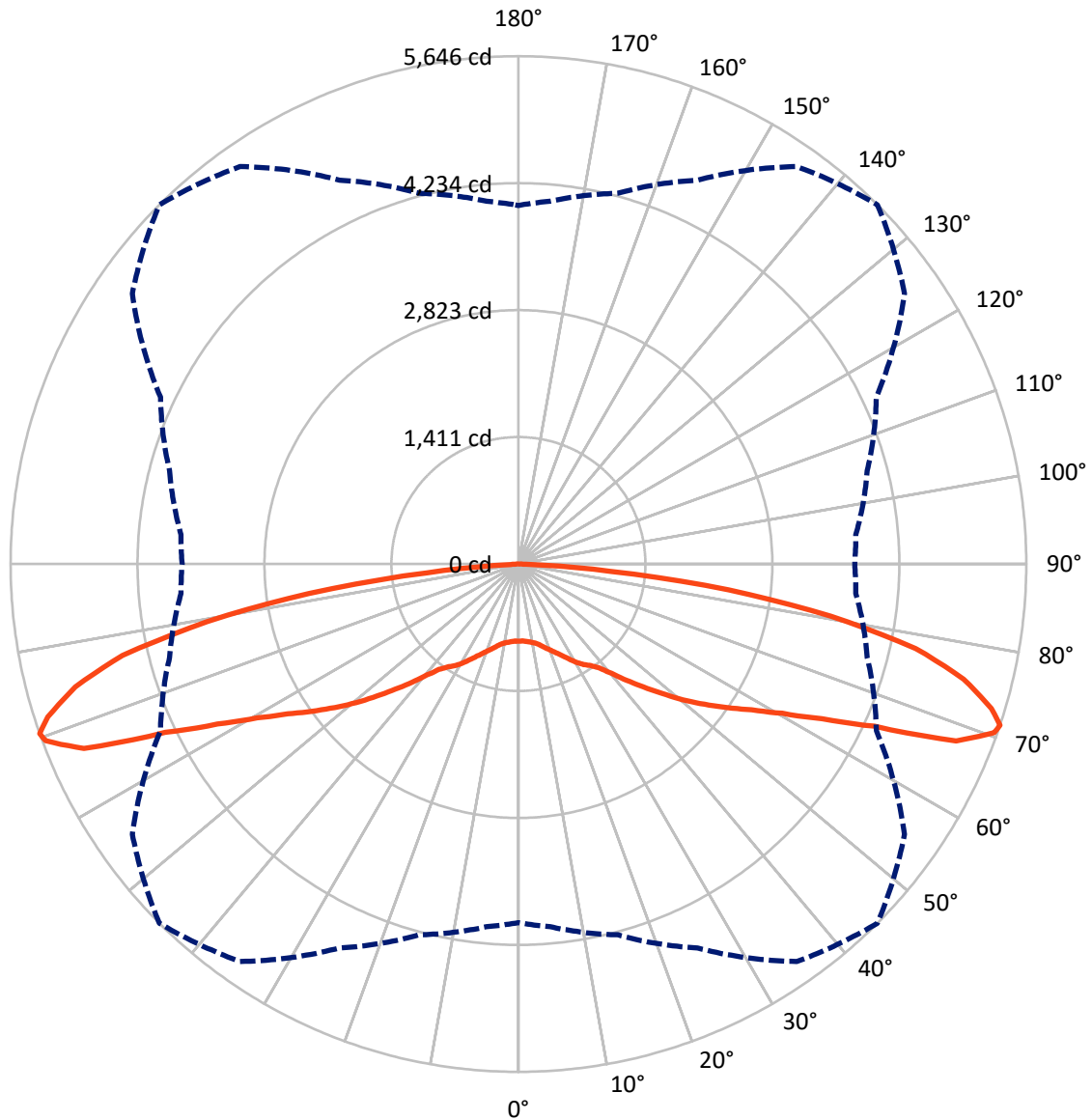
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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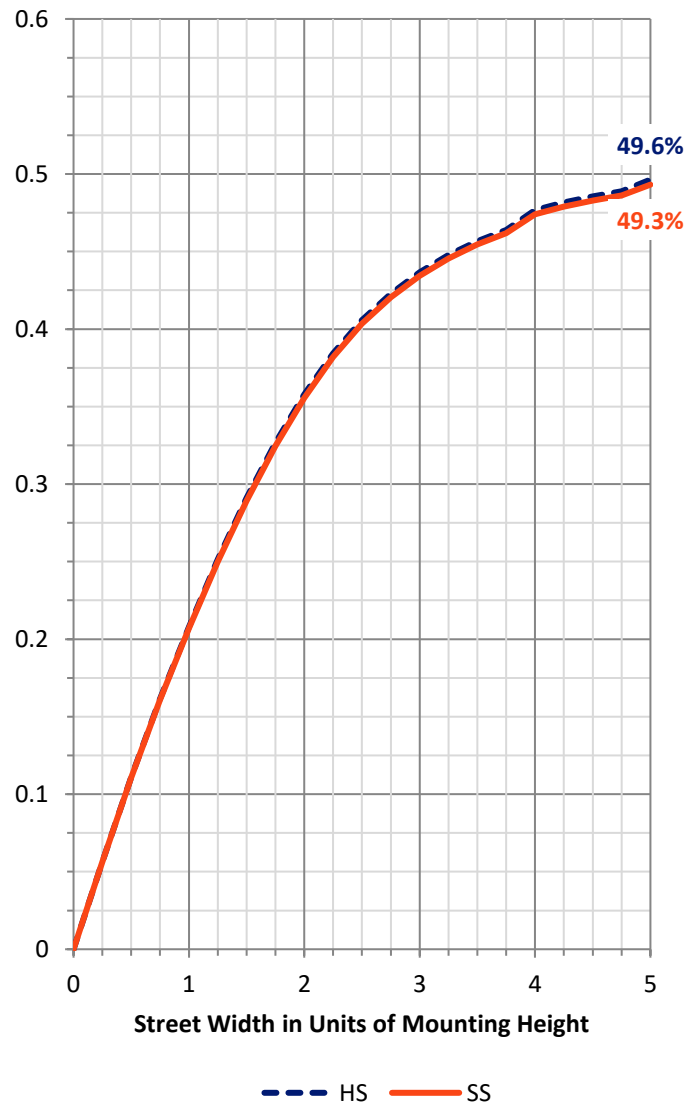
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7577.0	0.0	7577.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7577.0	0.0	7577.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15154.0	0.0	15154.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	0.6
10°-20°	267.9	1.8
20°-30°	516.4	3.4
30°-40°	873.3	5.8
40°-50°	1588.3	10.5
50°-60°	2709.1	17.9
60°-70°	4344.0	28.7
70°-80°	3949.9	26.1
80°-90°	821.7	5.4
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°	15154.0	100.0
0°-180°	15154.0	100.0



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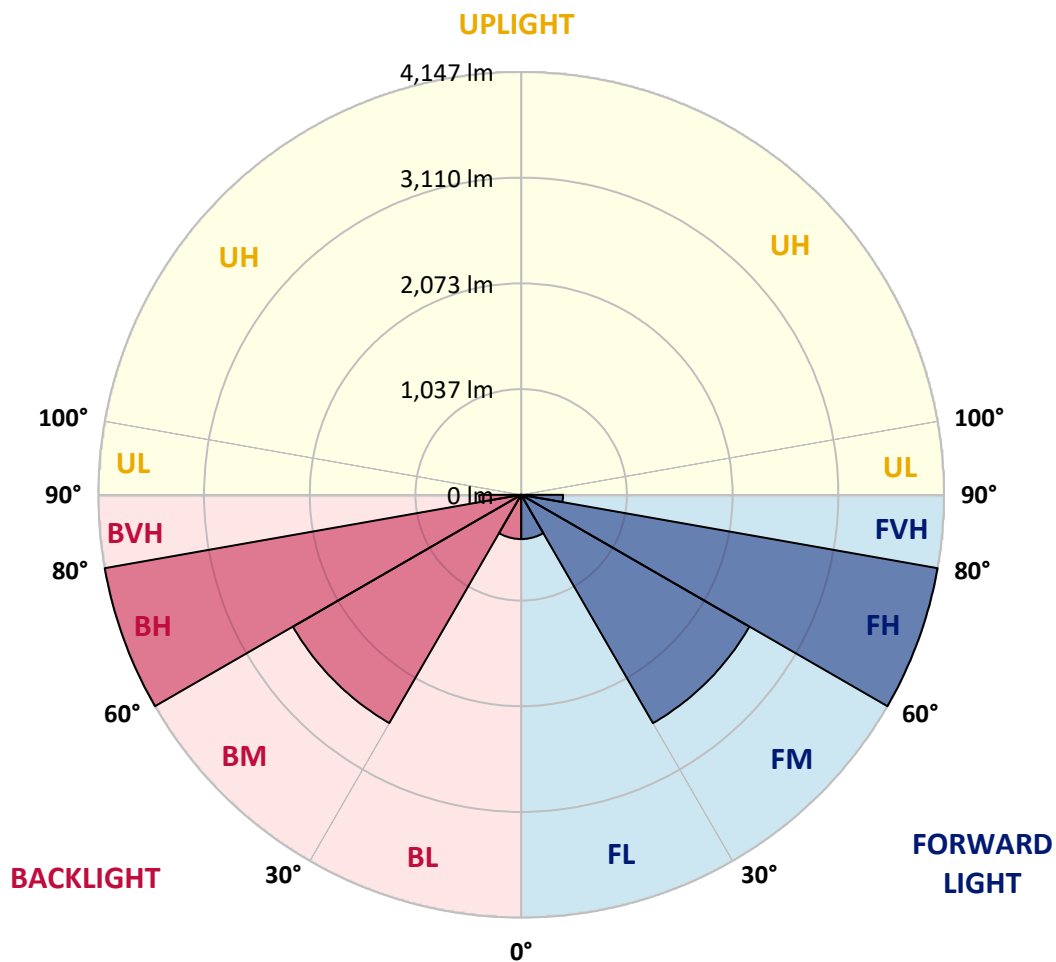
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.9	2.9			
FM	(30°-60°)	2585.3	17.1			
FH	(60°-80°)	4146.9	27.4			G2/5000
FVH	(80°-90°)	410.8	2.7			G3/500
BL	(0°-30°)	433.9	2.9	B1/500		
BM	(30°-60°)	2585.3	17.1	B3/5000		
BH	(60°-80°)	4146.9	27.4	B4/5000		G2/5000
BVH	(80°-90°)	410.8	2.7			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°	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6	858.6
2.5°	866.7	866.7	865.3	858.6	859.9	855.9	853.2	854.5	855.9	855.9	854.5
5°	873.4	873.4	872.1	866.7	868.0	864.0	862.6	864.0	866.7	869.4	866.7
7.5°	886.9	885.6	882.9	877.5	877.5	874.8	872.1	873.4	876.1	877.5	876.1
10°	901.8	900.4	896.4	891.0	891.0	888.3	882.9	882.9	882.9	881.5	880.2
12.5°	918.0	916.6	912.6	907.2	911.2	907.2	903.1	901.8	897.7	895.0	893.7
15°	943.6	942.3	938.2	934.2	945.0	939.6	932.8	926.1	923.4	920.7	918.0
17.5°	974.7	973.3	970.6	967.9	981.4	981.4	969.3	957.1	958.5	954.4	951.7
20°	1011.1	1009.8	1007.1	1009.8	1024.6	1023.3	1007.1	992.2	997.6	989.5	986.8
22.5°	1057.0	1054.3	1050.3	1054.3	1075.9	1071.9	1051.6	1038.1	1042.2	1038.1	1035.4
25°	1107.0	1101.6	1096.2	1101.6	1136.7	1128.6	1108.3	1092.1	1100.2	1097.5	1096.2
27.5°	1155.6	1150.2	1146.1	1142.1	1196.1	1194.7	1167.7	1151.5	1161.0	1162.3	1163.7
30°	1202.8	1201.5	1194.7	1189.3	1247.4	1266.3	1220.4	1213.6	1220.4	1228.5	1231.2
32.5°	1266.3	1263.6	1256.8	1247.4	1286.5	1332.4	1281.1	1286.5	1297.3	1313.5	1312.2
35°	1351.3	1344.6	1335.1	1325.7	1350.0	1386.4	1363.5	1374.3	1393.2	1412.1	1409.4
37.5°	1441.8	1440.4	1431.0	1408.0	1435.0	1467.4	1460.7	1480.9	1513.3	1551.1	1545.7
40°	1571.4	1572.7	1552.5	1522.8	1545.7	1598.4	1605.1	1647.0	1703.7	1757.6	1759.0
42.5°	1775.2	1771.1	1756.3	1714.5	1729.3	1768.4	1800.8	1865.6	1935.8	1991.2	1999.3
45°	2027.6	2022.2	1992.5	1926.4	1922.3	1950.7	1997.9	2081.6	2166.7	2220.7	2224.7
47.5°	2316.5	2297.6	2251.7	2165.3	2134.3	2147.8	2196.4	2289.5	2377.3	2436.7	2432.6
50°	2601.4	2602.7	2547.4	2434.0	2371.9	2371.9	2400.2	2497.4	2586.5	2641.9	2643.2
52.5°	2922.7	2910.5	2856.5	2720.2	2618.9	2590.6	2600.0	2691.8	2783.6	2843.0	2843.0
55°	3246.7	3234.5	3181.9	3030.7	2899.7	2817.4	2807.9	2894.3	2994.2	3050.9	3057.7
57.5°	3580.1	3572.0	3516.6	3352.0	3188.6	3057.7	3036.1	3134.6	3239.9	3296.6	3300.7
60°	3927.0	3916.2	3860.9	3732.6	3532.8	3368.2	3327.7	3427.6	3553.1	3627.3	3623.3
62.5°	4330.7	4317.2	4274.0	4109.3	3967.5	3789.3	3709.7	3824.4	3974.3	4060.7	4067.4
65°	4654.7	4660.1	4700.6	4676.3	4544.0	4349.6	4269.9	4453.5	4539.9	4554.8	4544.0
67.5°	4569.6	4589.9	4679.0	4880.1	5119.1	5247.3	4934.1	4714.1	4549.4	4453.5	4440.0
70°	4202.4	4217.3	4430.6	4760.0	5393.1	5611.8	5216.3	4499.4	4153.8	4005.3	3987.8
71°	3986.4	4047.2	4267.2	4708.7	5394.4	5645.5	5239.2	4390.1	4014.8	3765.0	3738.0
72.5°	3657.0	3709.7	3986.4	4515.6	5316.1	5499.7	4996.2	4133.6	3698.9	3491.0	3422.2
75°	2982.1	3079.3	3323.6	4020.2	4958.4	5112.3	4561.5	3646.2	3180.5	2955.1	2937.5
77.5°	2120.8	2186.9	2556.8	3308.8	4371.2	4515.6	4032.3	3065.8	2573.0	2363.8	2340.8
80°	1178.5	1244.7	1634.8	2326.0	3374.9	3520.7	3086.0	2239.6	1748.2	1525.5	1433.7
82.5°	527.8	567.0	854.5	1378.3	2165.3	2354.3	1875.1	1231.2	842.4	596.7	548.1
85°	183.6	203.8	340.2	625.0	1108.3	1023.3	642.6	307.8	108.0	52.6	48.6
87.5°	35.1	39.1	74.2	174.1	180.9	83.7	27.0	20.2	20.2	21.6	21.6
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)