

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: P233618

Luminaire Tested: **VERD-C02-D-U-T5-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233618  
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-C02-D-U-T5-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1140mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9893 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

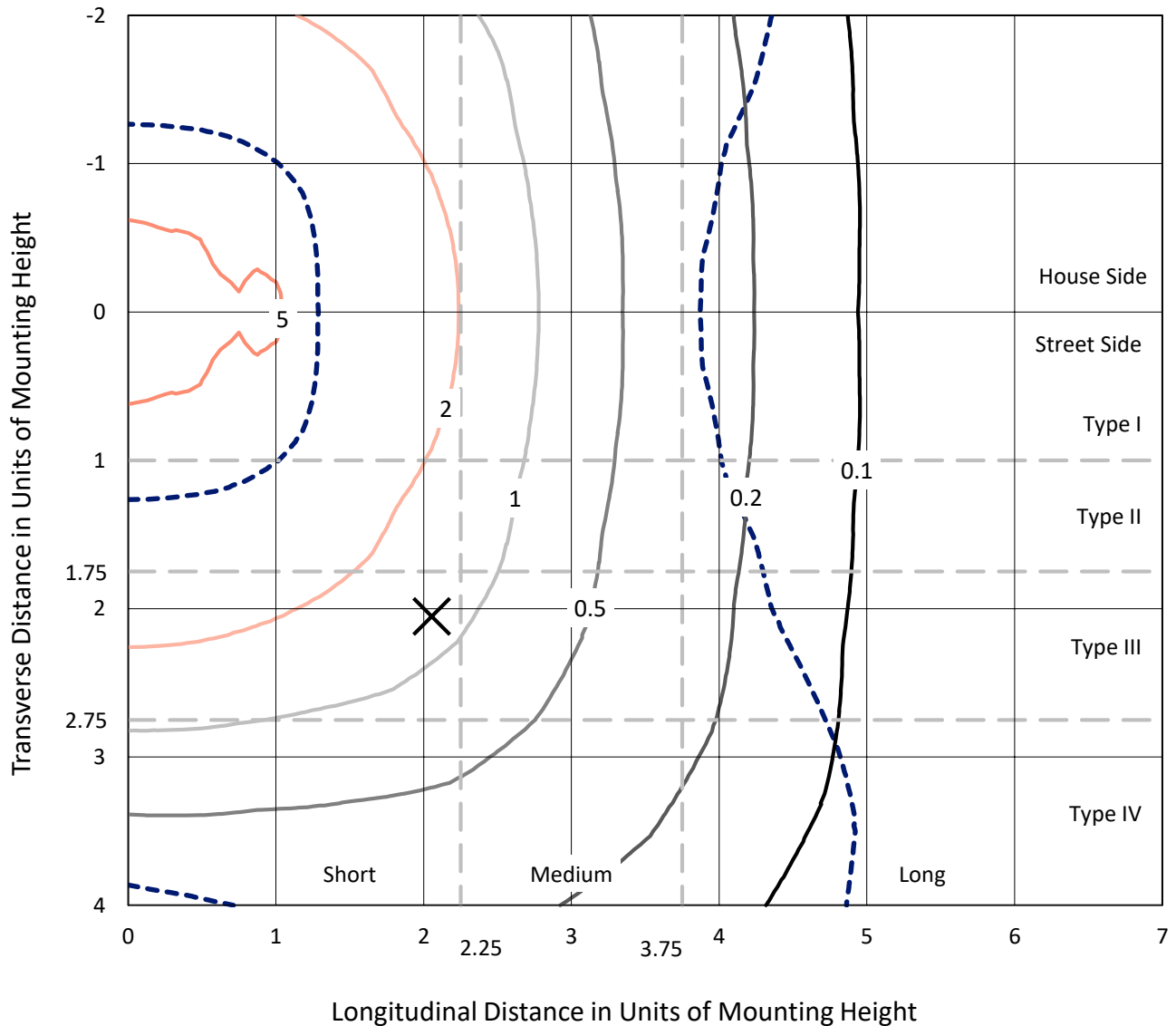
Input Watts (W): 90  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P233618  
 CATALOG NUMBER: VERD-C02-D-U-T5-8027

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

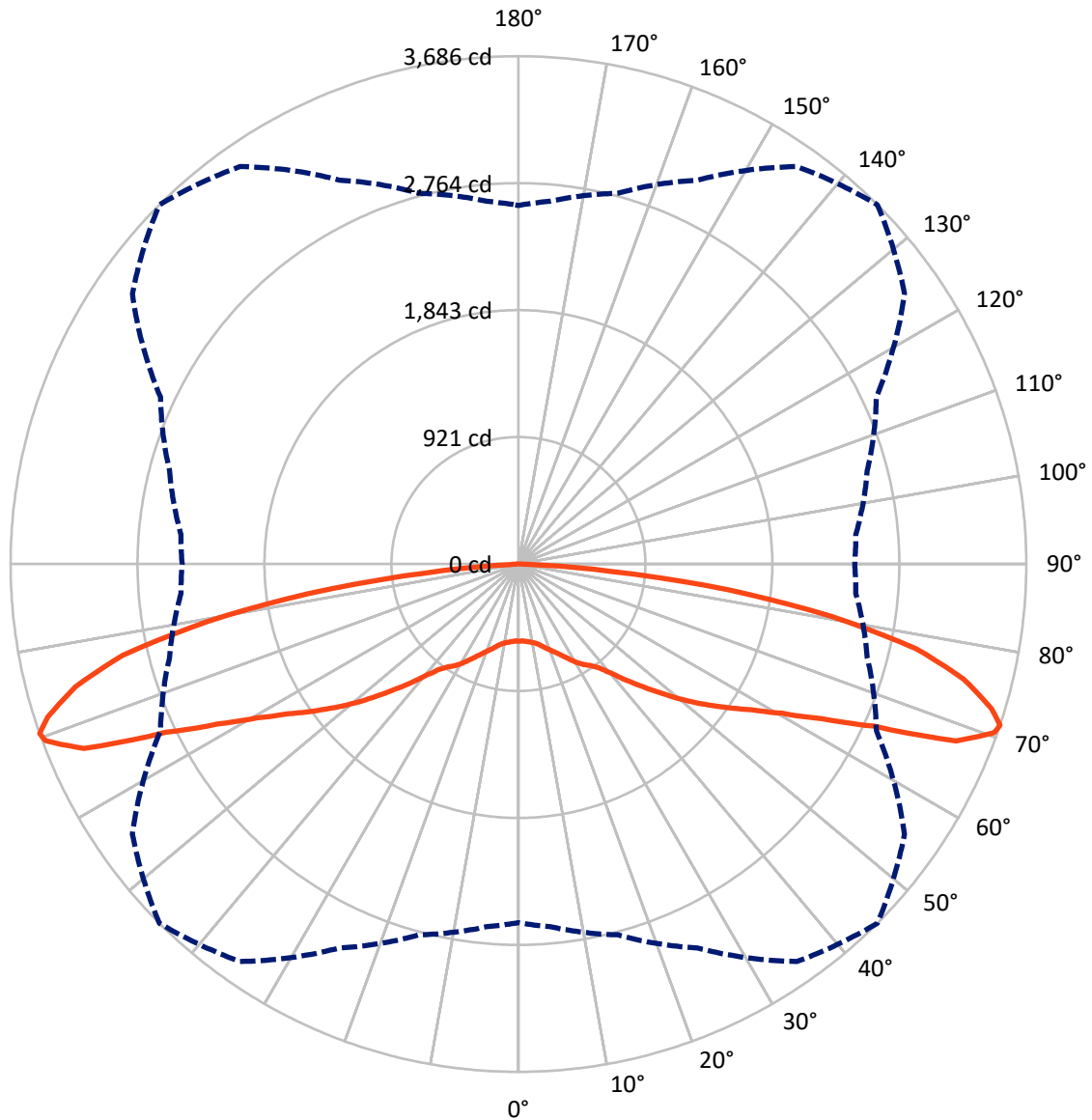


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P233618

CATALOG NUMBER: VERD-C02-D-U-T5-8027

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P233618

CATALOG NUMBER: VERD-C02-D-U-T5-8027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4946.5	0.0	4946.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4946.5	0.0	4946.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9893.0	0.0	9893.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	0.6
10°-20°	174.9	1.8
20°-30°	337.1	3.4
30°-40°	570.1	5.8
40°-50°	1036.9	10.5
50°-60°	1768.5	17.9
60°-70°	2835.9	28.7
70°-80°	2578.6	26.1
80°-90°	536.4	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°	9893.0	100.0
0°-180°	9893.0	100.0



REPORT NUMBER: P233618

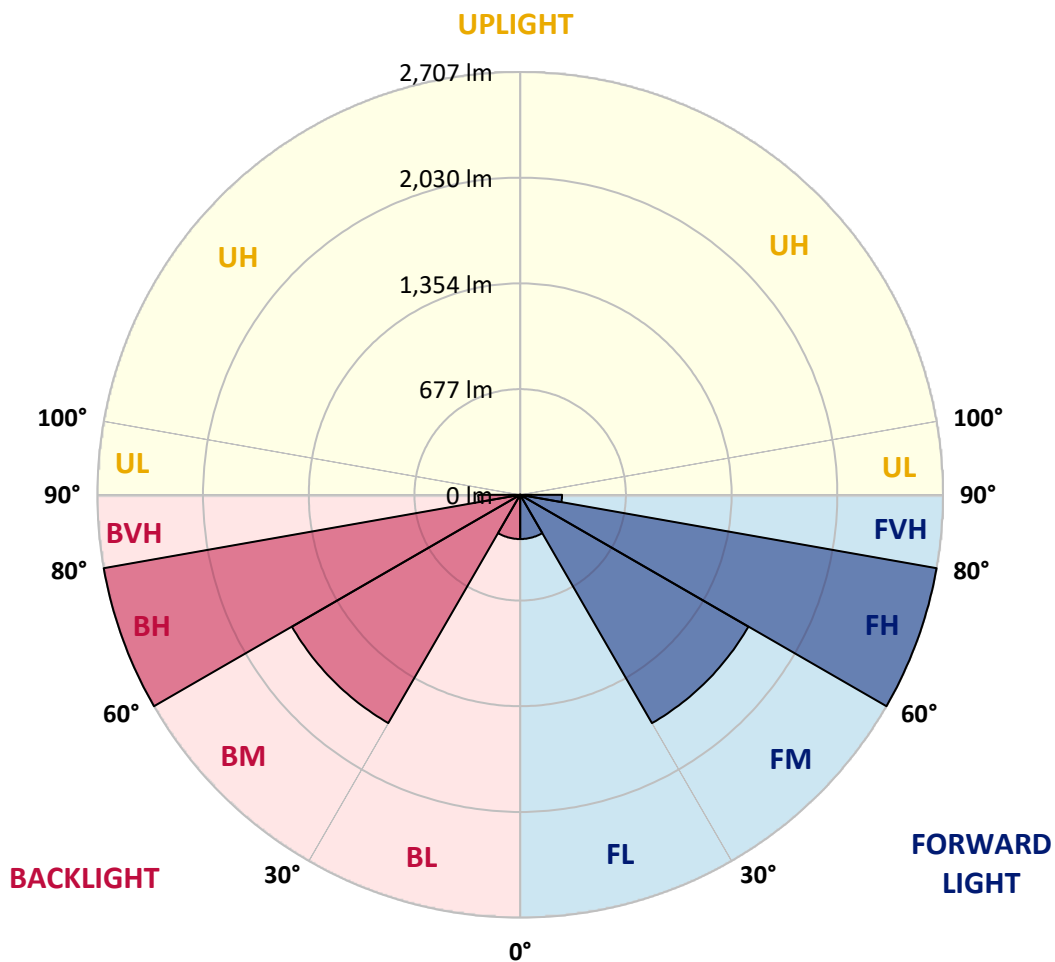
CATALOG NUMBER: VERD-C02-D-U-T5-8027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.2	2.9			
FM	(30°-60°)	1687.8	17.1			
FH	(60°-80°)	2707.3	27.4			G2/5000
FVH	(80°-90°)	268.2	2.7			G3/500
BL	(0°-30°)	283.2	2.9	B1/500		
BM	(30°-60°)	1687.8	17.1	B2/2500		
BH	(60°-80°)	2707.3	27.4	B4/5000		G2/5000
BVH	(80°-90°)	268.2	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





REPORT NUMBER: P233618

CATALOG NUMBER: VERD-C02-D-U-T5-8027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5
2.5°	565.8	565.8	564.9	560.5	561.4	558.7	557.0	557.9	558.7	558.7	557.9
5°	570.2	570.2	569.3	565.8	566.7	564.0	563.1	564.0	565.8	567.6	565.8
7.5°	579.0	578.1	576.4	572.8	572.8	571.1	569.3	570.2	572.0	572.8	572.0
10°	588.7	587.8	585.2	581.7	581.7	579.9	576.4	576.4	576.4	575.5	574.6
12.5°	599.3	598.4	595.8	592.2	594.9	592.2	589.6	588.7	586.1	584.3	583.4
15°	616.0	615.1	612.5	609.9	616.9	613.4	609.0	604.6	602.8	601.0	599.3
17.5°	636.3	635.4	633.7	631.9	640.7	640.7	632.8	624.8	625.7	623.1	621.3
20°	660.1	659.2	657.4	659.2	668.9	668.0	657.4	647.8	651.3	646.0	644.2
22.5°	690.1	688.3	685.6	688.3	702.4	699.7	686.5	677.7	680.4	677.7	676.0
25°	722.7	719.1	715.6	719.1	742.1	736.8	723.5	713.0	718.3	716.5	715.6
27.5°	754.4	750.9	748.2	745.6	780.8	779.9	762.3	751.7	757.9	758.8	759.7
30°	785.2	784.4	779.9	776.4	814.3	826.7	796.7	792.3	796.7	802.0	803.7
32.5°	826.7	824.9	820.5	814.3	839.9	869.8	836.4	839.9	846.9	857.5	856.6
35°	882.2	877.8	871.6	865.4	881.3	905.1	890.1	897.2	909.5	921.8	920.1
37.5°	941.2	940.3	934.2	919.2	936.8	958.0	953.6	966.8	987.9	1012.6	1009.1
40°	1025.8	1026.7	1013.5	994.1	1009.1	1043.5	1047.9	1075.2	1112.2	1147.4	1148.3
42.5°	1158.9	1156.3	1146.6	1119.2	1128.9	1154.5	1175.6	1218.0	1263.8	1299.9	1305.2
45°	1323.7	1320.2	1300.8	1257.6	1255.0	1273.5	1304.3	1359.0	1414.5	1449.7	1452.4
47.5°	1512.3	1500.0	1470.0	1413.6	1393.3	1402.1	1433.9	1494.7	1552.0	1590.7	1588.1
50°	1698.3	1699.1	1663.0	1589.0	1548.4	1548.4	1566.9	1630.4	1688.6	1724.7	1725.6
52.5°	1908.0	1900.1	1864.8	1775.8	1709.7	1691.2	1697.4	1757.3	1817.2	1856.0	1856.0
55°	2119.5	2111.6	2077.2	1978.5	1893.0	1839.3	1833.1	1889.5	1954.7	1991.7	1996.1
57.5°	2337.2	2331.9	2295.8	2188.3	2081.6	1996.1	1982.0	2046.4	2115.1	2152.1	2154.8
60°	2563.7	2556.6	2520.5	2436.8	2306.4	2198.8	2172.4	2237.6	2319.6	2368.0	2365.4
62.5°	2827.2	2818.4	2790.2	2682.7	2590.1	2473.8	2421.8	2496.7	2594.5	2650.9	2655.3
65°	3038.7	3042.2	3068.7	3052.8	2966.4	2839.5	2787.5	2907.4	2963.8	2973.5	2966.4
67.5°	2983.2	2996.4	3054.6	3185.9	3341.9	3425.6	3221.1	3077.5	2970.0	2907.4	2898.6
70°	2743.5	2753.2	2892.4	3107.5	3520.8	3663.6	3405.3	2937.4	2711.7	2614.8	2603.4
71°	2602.5	2642.1	2785.8	3074.0	3521.7	3685.6	3420.3	2866.0	2621.0	2457.9	2440.3
72.5°	2387.4	2421.8	2602.5	2947.9	3470.5	3590.4	3261.7	2698.5	2414.8	2279.0	2234.1
75°	1946.8	2010.2	2169.8	2624.5	3237.0	3337.5	2977.9	2380.4	2076.3	1929.2	1917.7
77.5°	1384.5	1427.7	1669.2	2160.1	2853.6	2947.9	2632.4	2001.4	1679.8	1543.2	1528.2
80°	769.4	812.6	1067.3	1518.5	2203.2	2298.4	2014.6	1462.1	1141.3	995.9	935.9
82.5°	344.6	370.1	557.9	899.8	1413.6	1537.0	1224.1	803.7	549.9	389.5	357.8
85°	119.9	133.1	222.1	408.0	723.5	668.0	419.5	200.9	70.5	34.4	31.7
87.5°	22.9	25.6	48.5	113.7	118.1	54.6	17.6	13.2	13.2	14.1	14.1
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)