

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: P233435

Luminaire Tested: **VERD-C029-D-U-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-18)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C029-D-U-T1  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1030mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10677 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 81  
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

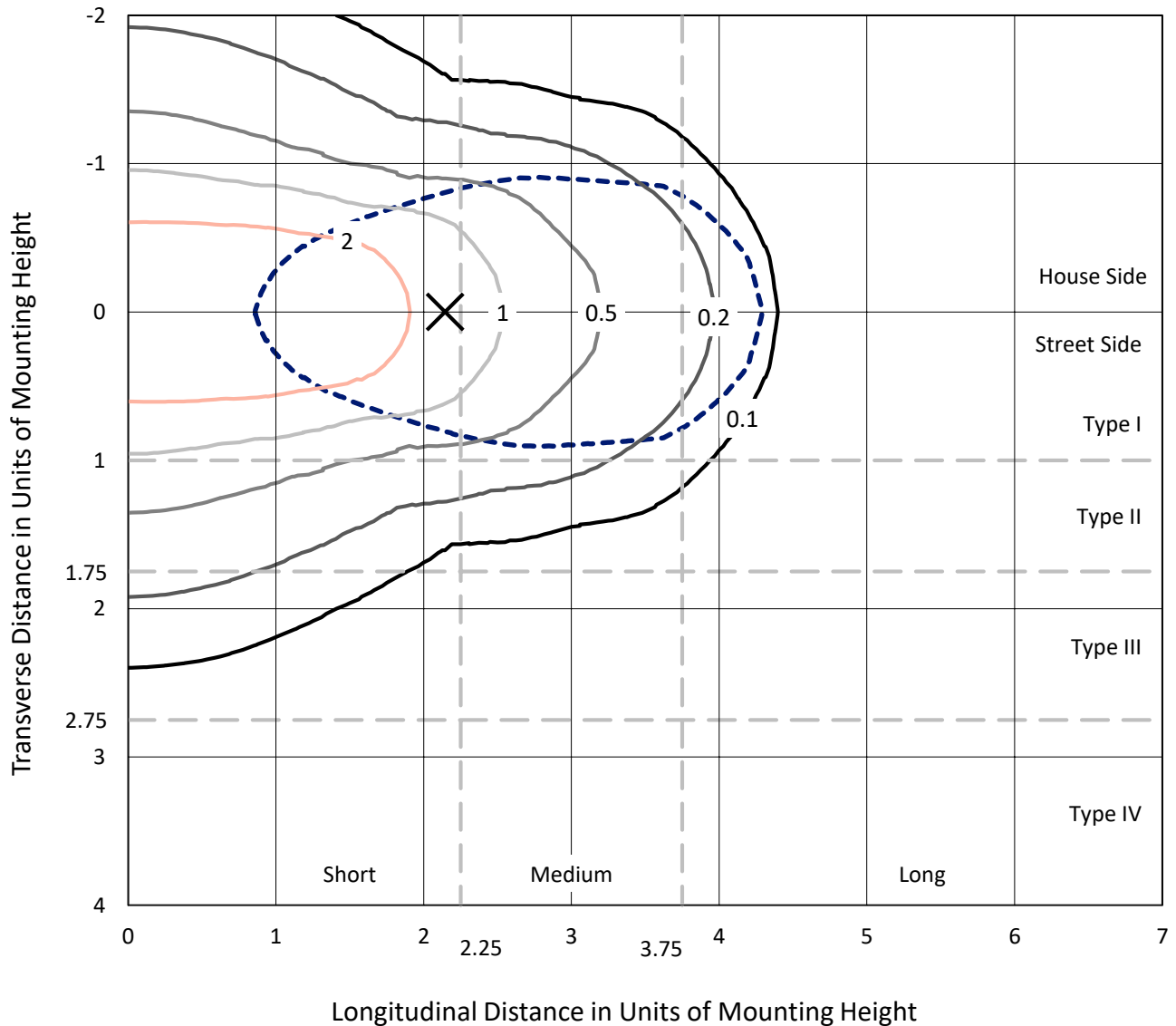


REPORT NUMBER: P233435

CATALOG NUMBER: VERD-C029-D-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

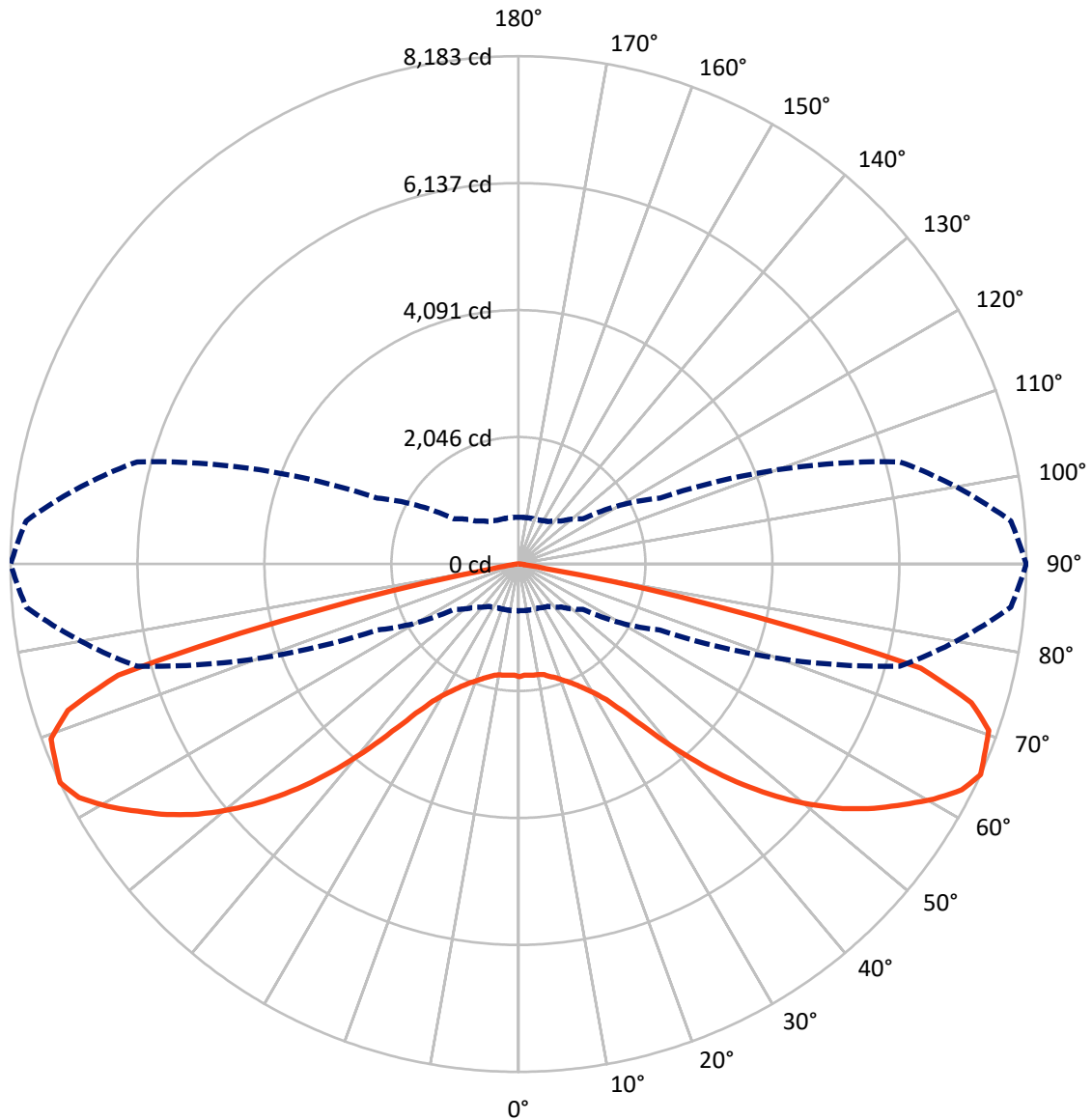


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P233435

CATALOG NUMBER: VERD-C029-D-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P233435

CATALOG NUMBER: VERD-C029-D-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5338.5	0.0	5338.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5338.5	0.0	5338.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10677.0	0.0	10677.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.1	1.6
10°-20°	508.4	4.8
20°-30°	833.7	7.8
30°-40°	1205.5	11.3
40°-50°	1765.2	16.5
50°-60°	2290.0	21.4
60°-70°	2421.8	22.7
70°-80°	1421.7	13.3
80°-90°	58.6	0.5
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°	10677.0	100.0
0°-180°	10677.0	100.0



REPORT NUMBER: P233435

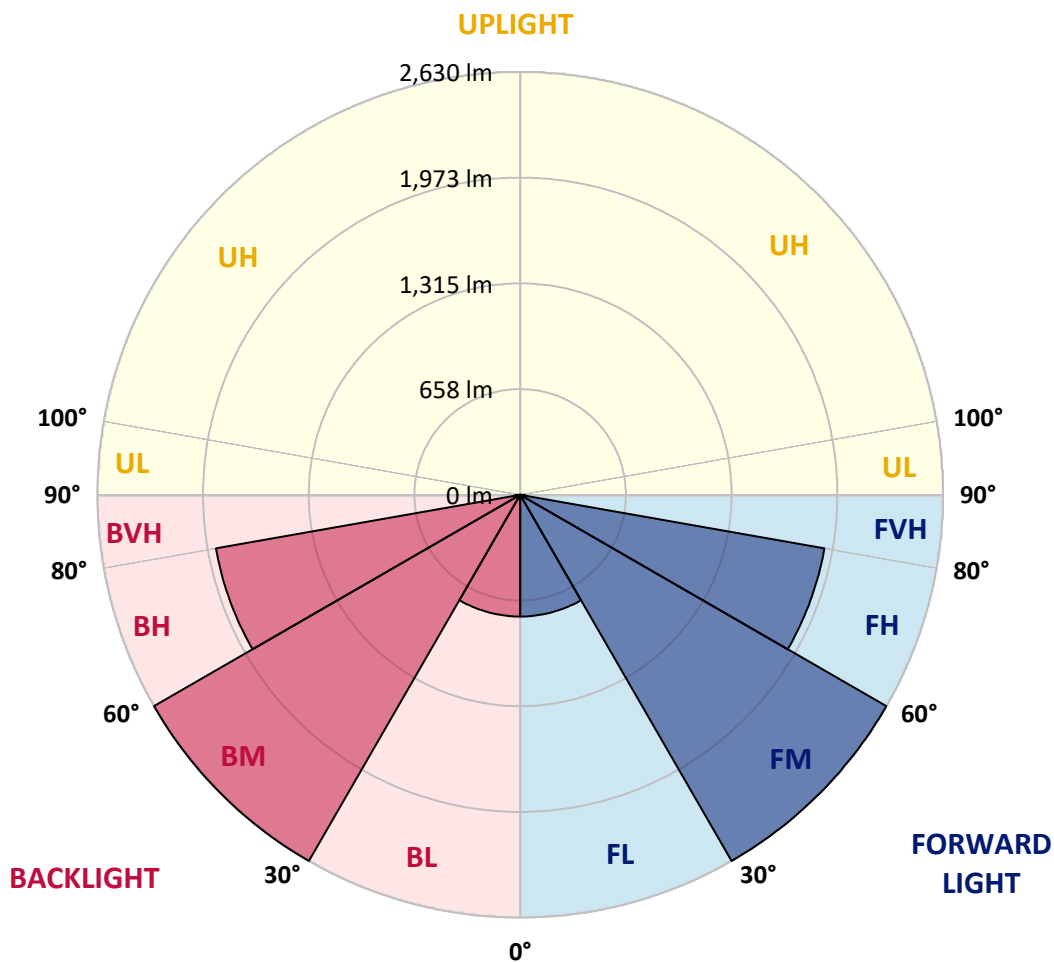
CATALOG NUMBER: VERD-C029-D-U-T1

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.1	7.1			
FM	(30°-60°)	2630.4	24.6			
FH	(60°-80°)	1921.7	18.0			G2/5000
FVH	(80°-90°)	29.3	0.3			G1/100
BL	(0°-30°)	757.1	7.1	B2/1000		
BM	(30°-60°)	2630.4	24.6	B3/5000		
BH	(60°-80°)	1921.7	18.0	B3/2500		G2/5000
BVH	(80°-90°)	29.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





REPORT NUMBER: P233435

CATALOG NUMBER: VERD-C029-D-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3	1817.3
2.5°	1834.8	1833.0	1822.8	1808.1	1803.5	1807.2	1806.3	1801.6	1801.6	1803.5	1791.5
5°	1823.8	1821.0	1809.0	1805.3	1806.3	1810.9	1809.9	1806.3	1808.1	1806.3	1797.0
7.5°	1804.4	1801.6	1794.3	1792.4	1790.6	1798.0	1805.3	1809.9	1815.5	1812.7	1806.3
10°	1786.0	1780.4	1781.4	1772.2	1775.8	1789.7	1797.0	1805.3	1813.6	1812.7	1810.9
12.5°	1758.3	1752.8	1755.6	1752.8	1765.7	1782.3	1804.4	1820.1	1829.3	1826.5	1829.3
15°	1724.2	1722.4	1727.0	1730.7	1753.7	1791.5	1815.5	1849.6	1869.8	1870.8	1877.2
17.5°	1685.5	1681.8	1690.1	1704.0	1746.4	1787.8	1847.7	1885.5	1915.0	1919.6	1925.1
20°	1620.1	1621.9	1634.8	1658.8	1718.7	1793.4	1867.1	1924.2	1966.6	1977.7	1989.6
22.5°	1538.1	1542.7	1566.6	1616.4	1693.8	1786.9	1888.3	1969.4	2030.2	2055.1	2062.4
25°	1452.4	1459.7	1498.5	1564.8	1665.3	1784.1	1915.0	2021.9	2108.5	2148.2	2152.8
27.5°	1375.9	1382.3	1432.1	1516.9	1638.5	1785.1	1939.0	2085.5	2202.5	2260.6	2269.8
30°	1298.5	1305.8	1357.5	1462.5	1611.8	1783.2	1966.6	2157.4	2315.0	2397.9	2411.7
32.5°	1232.1	1239.5	1292.9	1402.6	1578.6	1780.4	1999.8	2244.9	2450.4	2585.0	2603.4
35°	1175.9	1184.2	1238.6	1346.4	1536.2	1781.4	2047.7	2364.7	2660.5	2882.6	2918.6
37.5°	1128.9	1137.2	1185.1	1293.9	1492.9	1774.0	2105.8	2515.9	2938.8	3306.5	3372.9
40°	1099.4	1106.8	1142.7	1239.5	1440.4	1757.4	2173.0	2683.6	3278.9	3815.2	3931.4
42.5°	1069.0	1077.3	1106.8	1189.7	1384.2	1732.5	2232.0	2852.2	3633.7	4348.8	4514.7
45°	1035.8	1041.4	1073.6	1148.3	1328.9	1693.8	2283.6	3013.5	4006.0	4890.7	5070.4
47.5°	1008.2	1010.9	1037.7	1106.8	1270.8	1636.7	2297.4	3151.7	4382.0	5417.8	5593.9
50°	989.8	985.1	1010.0	1069.9	1216.5	1557.4	2273.5	3254.9	4786.6	5921.0	6087.8
52.5°	961.2	960.3	979.6	1034.0	1164.8	1466.2	2187.8	3304.7	5191.1	6391.9	6546.7
55°	934.5	934.5	950.1	992.5	1110.5	1372.2	2041.3	3284.4	5579.1	6838.0	6951.3
57.5°	895.8	894.8	907.7	946.4	1046.9	1283.7	1856.0	3190.4	5894.3	7250.8	7312.6
60°	858.0	857.0	864.4	893.9	986.1	1188.8	1657.9	3006.1	6206.7	7615.8	7689.5
62.5°	810.0	809.1	816.5	842.3	917.9	1087.4	1463.4	2781.3	6390.1	7825.9	8016.6
65°	752.9	753.8	763.0	779.6	833.1	978.7	1270.8	2513.1	6359.7	7962.3	8182.5
67.5°	698.5	695.8	703.1	705.9	745.5	864.4	1091.1	2300.2	6127.4	7986.2	8106.0
70°	631.3	627.6	627.6	616.5	644.2	730.8	922.5	2077.2	5467.6	7767.8	8040.6
72.5°	528.1	528.1	522.5	510.5	528.1	592.6	768.6	1828.4	4429.9	7294.1	7632.3
75°	329.0	331.8	343.7	380.6	406.4	447.0	609.1	1540.8	3619.0	6068.5	6692.4
77.5°	168.6	172.3	176.9	177.9	184.3	192.6	290.3	862.6	1839.4	3023.6	3225.5
80°	42.4	43.3	104.1	116.1	124.4	128.1	106.9	287.5	476.4	446.0	435.9
82.5°	28.6	30.4	59.9	73.7	68.2	51.6	59.0	87.5	71.0	96.8	108.7
85°	15.7	15.7	26.7	28.6	29.5	33.2	29.5	28.6	32.3	61.7	71.9
87.5°	7.4	7.4	11.1	13.8	13.8	16.6	13.8	14.7	14.7	28.6	33.2
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)