

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: P233403

Luminaire Tested: **VERD-C016-D-U-T1-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233403  
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-C016-D-U-T1-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 950mA LED AND TYPE I OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4514 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 39  
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

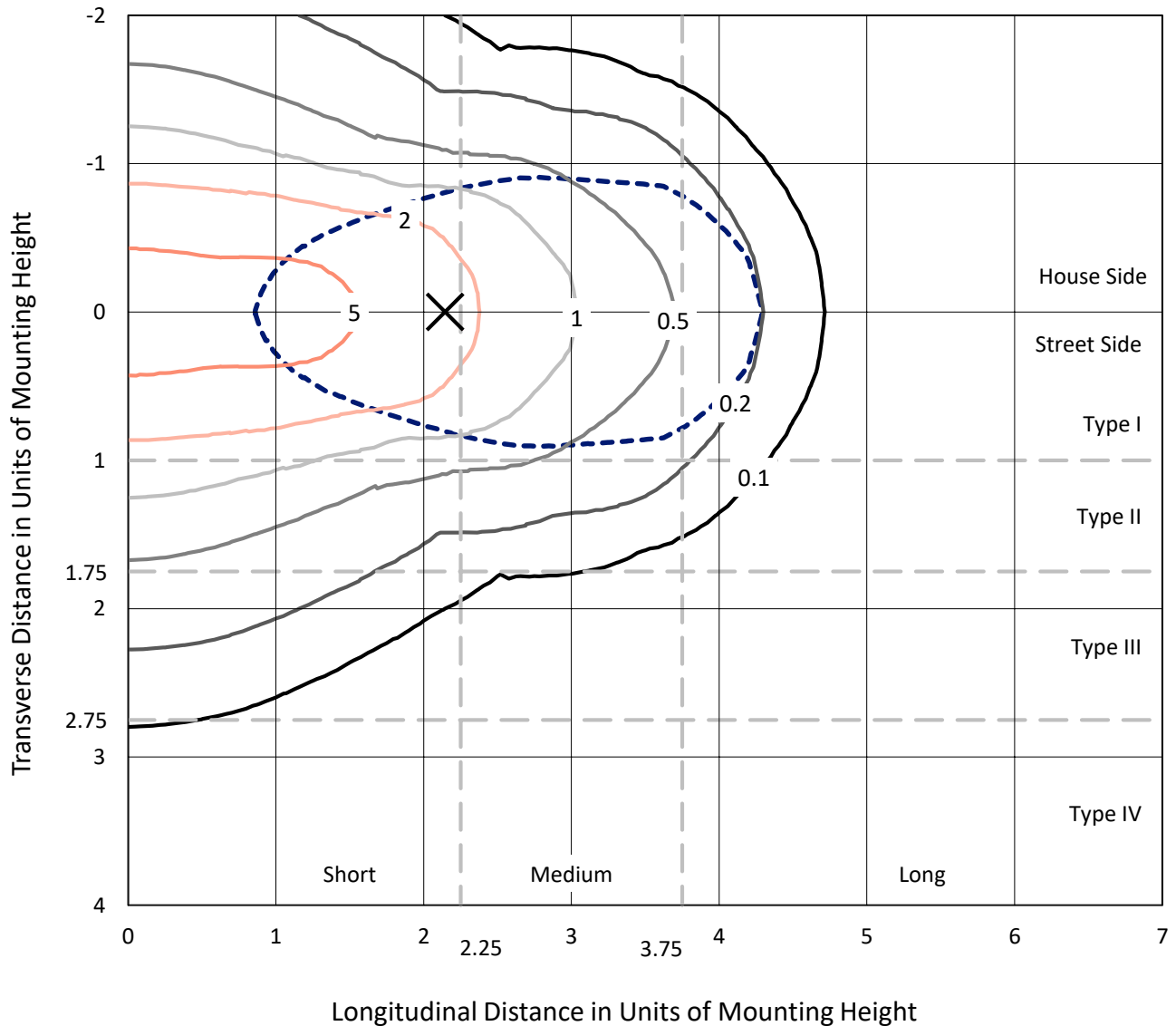


REPORT NUMBER: P233403

CATALOG NUMBER: VERD-C016-D-U-T1-8027

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

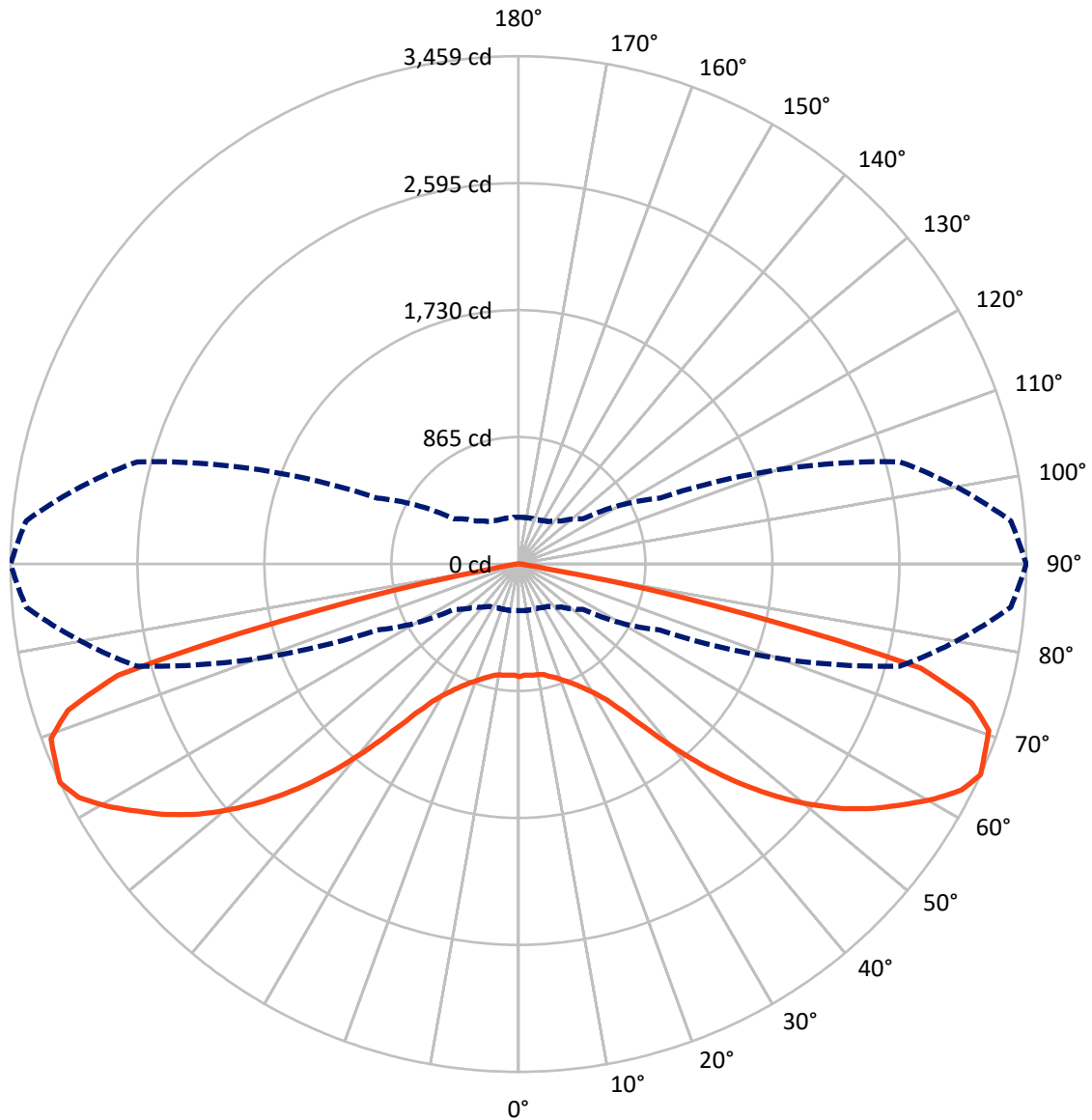


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P233403

CATALOG NUMBER: VERD-C016-D-U-T1-8027

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P233403

CATALOG NUMBER: VERD-C016-D-U-T1-8027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2257.0	0.0	2257.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2257.0	0.0	2257.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4514.0	0.0	4514.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	1.6
10°-20°	215.0	4.8
20°-30°	352.5	7.8
30°-40°	509.7	11.3
40°-50°	746.3	16.5
50°-60°	968.1	21.4
60°-70°	1023.9	22.7
70°-80°	601.0	13.3
80°-90°	24.7	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°	4514.0	100.0
0°-180°	4514.0	100.0



REPORT NUMBER: P233403

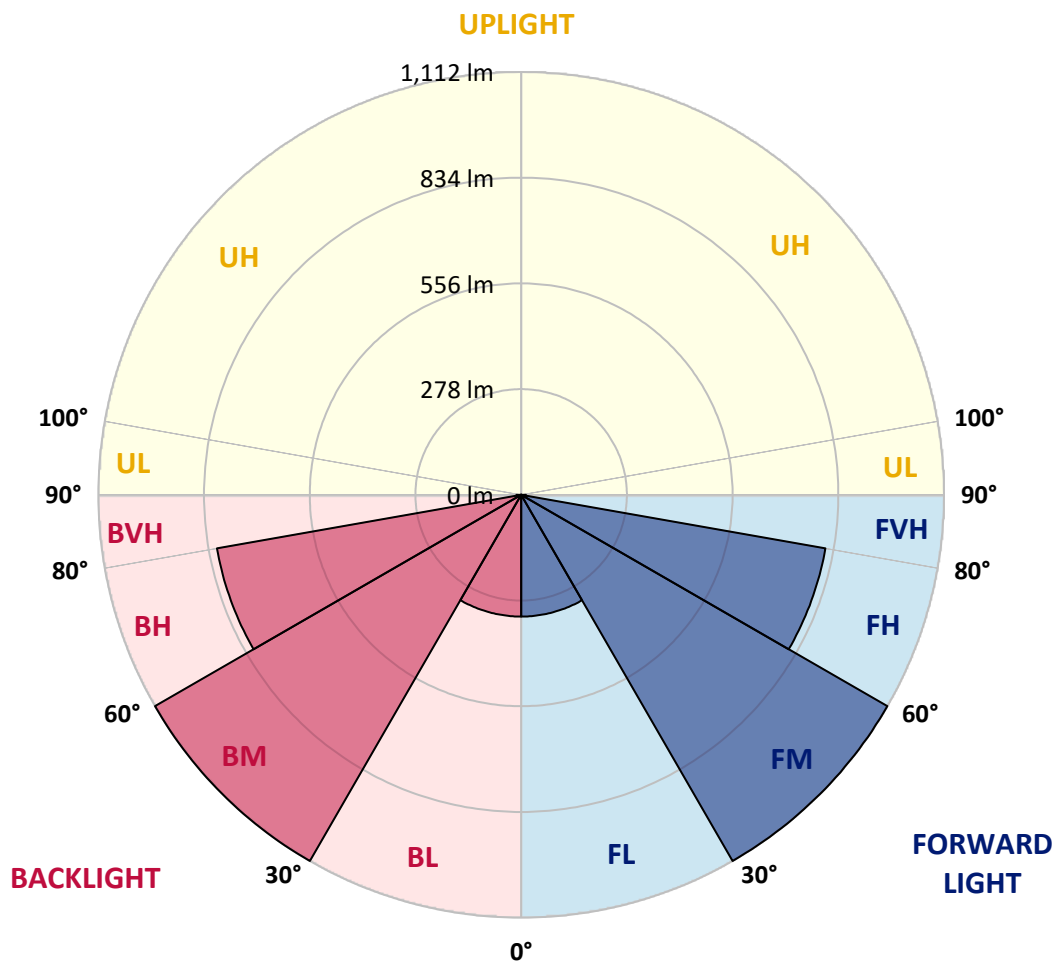
CATALOG NUMBER: VERD-C016-D-U-T1-8027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.1	7.1			
FM (30°-60°)	1112.1	24.6			
FH (60°-80°)	812.5	18.0			G1/1800
FVH (80°-90°)	12.4	0.3			G1/100
BL (0°-30°)	320.1	7.1	B1/500		
BM (30°-60°)	1112.1	24.6	B2/2500		
BH (60°-80°)	812.5	18.0	B2/1000		G1/1800
BVH (80°-90°)	12.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





REPORT NUMBER: P233403

CATALOG NUMBER: VERD-C016-D-U-T1-8027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3	768.3
2.5°	775.7	774.9	770.7	764.4	762.5	764.0	763.6	761.7	761.7	762.5	757.4
5°	771.0	769.9	764.8	763.3	763.6	765.6	765.2	763.6	764.4	763.6	759.7
7.5°	762.9	761.7	758.6	757.8	757.0	760.1	763.3	765.2	767.5	766.4	763.6
10°	755.1	752.7	753.1	749.2	750.8	756.6	759.7	763.3	766.8	766.4	765.6
12.5°	743.4	741.0	742.2	741.0	746.5	753.5	762.9	769.5	773.4	772.2	773.4
15°	729.0	728.2	730.1	731.7	741.4	757.4	767.5	782.0	790.5	790.9	793.6
17.5°	712.6	711.0	714.6	720.4	738.3	755.9	781.2	797.2	809.6	811.6	813.9
20°	684.9	685.7	691.2	701.3	726.6	758.2	789.4	813.5	831.4	836.1	841.2
22.5°	650.3	652.2	662.3	683.4	716.1	755.5	798.3	832.6	858.3	868.8	872.0
25°	614.0	617.1	633.5	661.6	704.0	754.3	809.6	854.8	891.4	908.2	910.1
27.5°	581.7	584.4	605.5	641.3	692.7	754.7	819.7	881.7	931.2	955.7	959.6
30°	549.0	552.1	573.9	618.3	681.4	753.9	831.4	912.1	978.7	1013.8	1019.6
32.5°	520.9	524.0	546.6	593.0	667.4	752.7	845.5	949.1	1036.0	1092.9	1100.7
35°	497.1	500.7	523.6	569.2	649.5	753.1	865.7	999.8	1124.8	1218.7	1233.9
37.5°	477.3	480.8	501.0	547.0	631.2	750.0	890.3	1063.6	1242.5	1397.9	1426.0
40°	464.8	467.9	483.1	524.0	609.0	743.0	918.7	1134.6	1386.2	1613.0	1662.1
42.5°	452.0	455.5	467.9	503.0	585.2	732.5	943.6	1205.9	1536.2	1838.6	1908.7
45°	437.9	440.3	453.9	485.5	561.8	716.1	965.5	1274.0	1693.7	2067.7	2143.7
47.5°	426.2	427.4	438.7	467.9	537.3	692.0	971.3	1332.5	1852.6	2290.5	2365.0
50°	418.4	416.5	427.0	452.3	514.3	658.4	961.2	1376.1	2023.7	2503.3	2573.8
52.5°	406.4	406.0	414.2	437.1	492.5	619.9	924.9	1397.2	2194.7	2702.4	2767.8
55°	395.1	395.1	401.7	419.6	469.5	580.1	863.0	1388.6	2358.7	2890.9	2938.9
57.5°	378.7	378.3	383.8	400.1	442.6	542.7	784.7	1348.8	2492.0	3065.5	3091.6
60°	362.7	362.3	365.5	377.9	416.9	502.6	700.9	1270.9	2624.1	3219.8	3250.9
62.5°	342.5	342.1	345.2	356.1	388.1	459.7	618.7	1175.9	2701.6	3308.6	3389.3
65°	318.3	318.7	322.6	329.6	352.2	413.8	537.3	1062.5	2688.7	3366.3	3459.4
67.5°	295.3	294.2	297.3	298.4	315.2	365.5	461.3	972.5	2590.5	3376.4	3427.0
70°	266.9	265.3	265.3	260.7	272.3	309.0	390.0	878.2	2311.6	3284.1	3399.4
72.5°	223.2	223.2	220.9	215.8	223.2	250.5	324.9	773.0	1872.9	3083.8	3226.8
75°	139.1	140.3	145.3	160.9	171.8	189.0	257.5	651.4	1530.0	2565.6	2829.4
77.5°	71.3	72.9	74.8	75.2	77.9	81.4	122.7	364.7	777.7	1278.3	1363.7
80°	17.9	18.3	44.0	49.1	52.6	54.2	45.2	121.6	201.4	188.6	184.3
82.5°	12.1	12.9	25.3	31.2	28.8	21.8	24.9	37.0	30.0	40.9	46.0
85°	6.6	6.6	11.3	12.1	12.5	14.0	12.5	12.1	13.6	26.1	30.4
87.5°	3.1	3.1	4.7	5.8	5.8	7.0	5.8	6.2	6.2	12.1	14.0
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)