

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: P233412

Luminaire Tested: **VERD-C02H8-D-U-T1-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233412
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-C02H8-D-U-T1-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 960mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12933 lumens
Efficiency: N/A
Efficacy: 117.6 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): 110
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

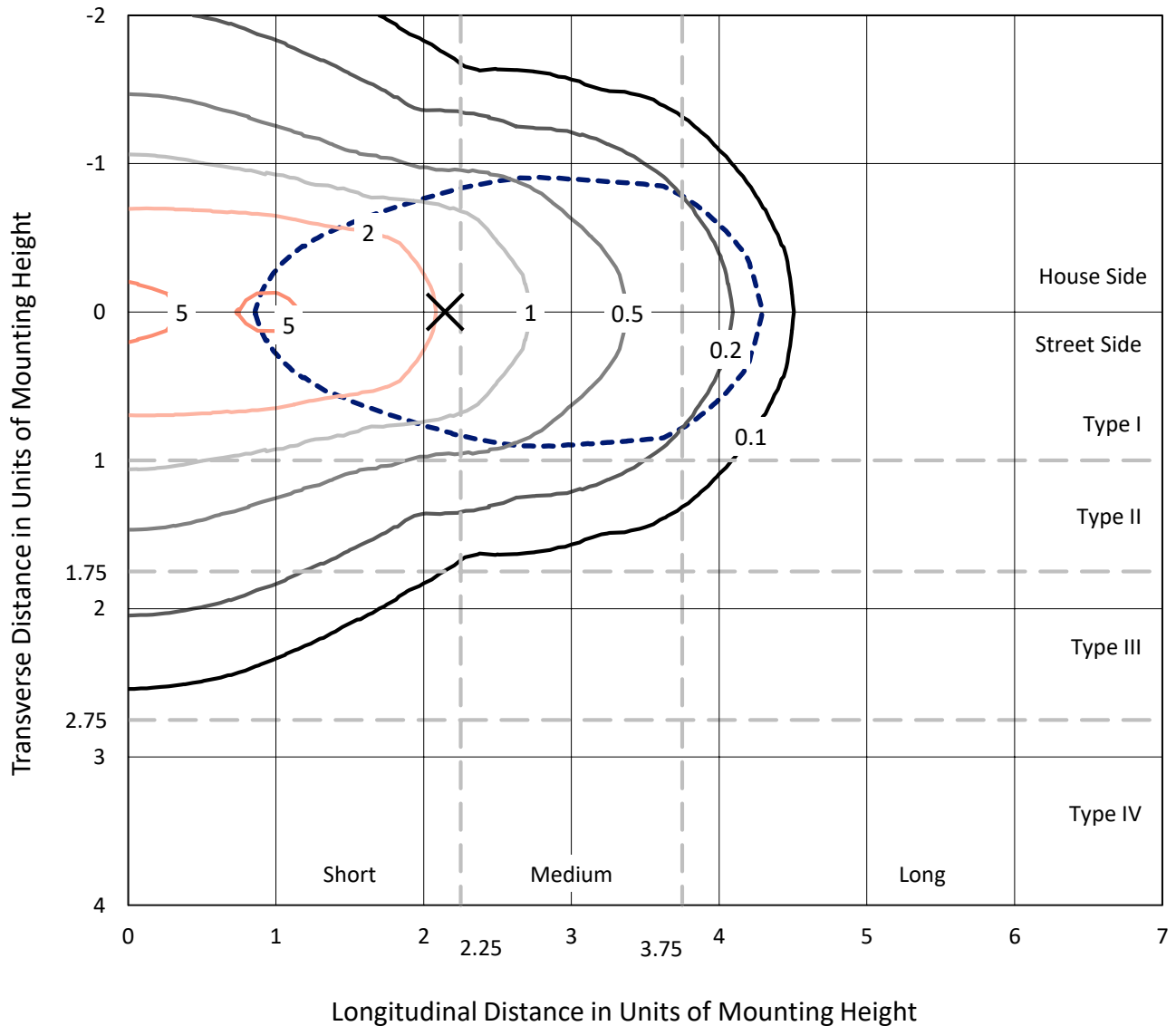


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

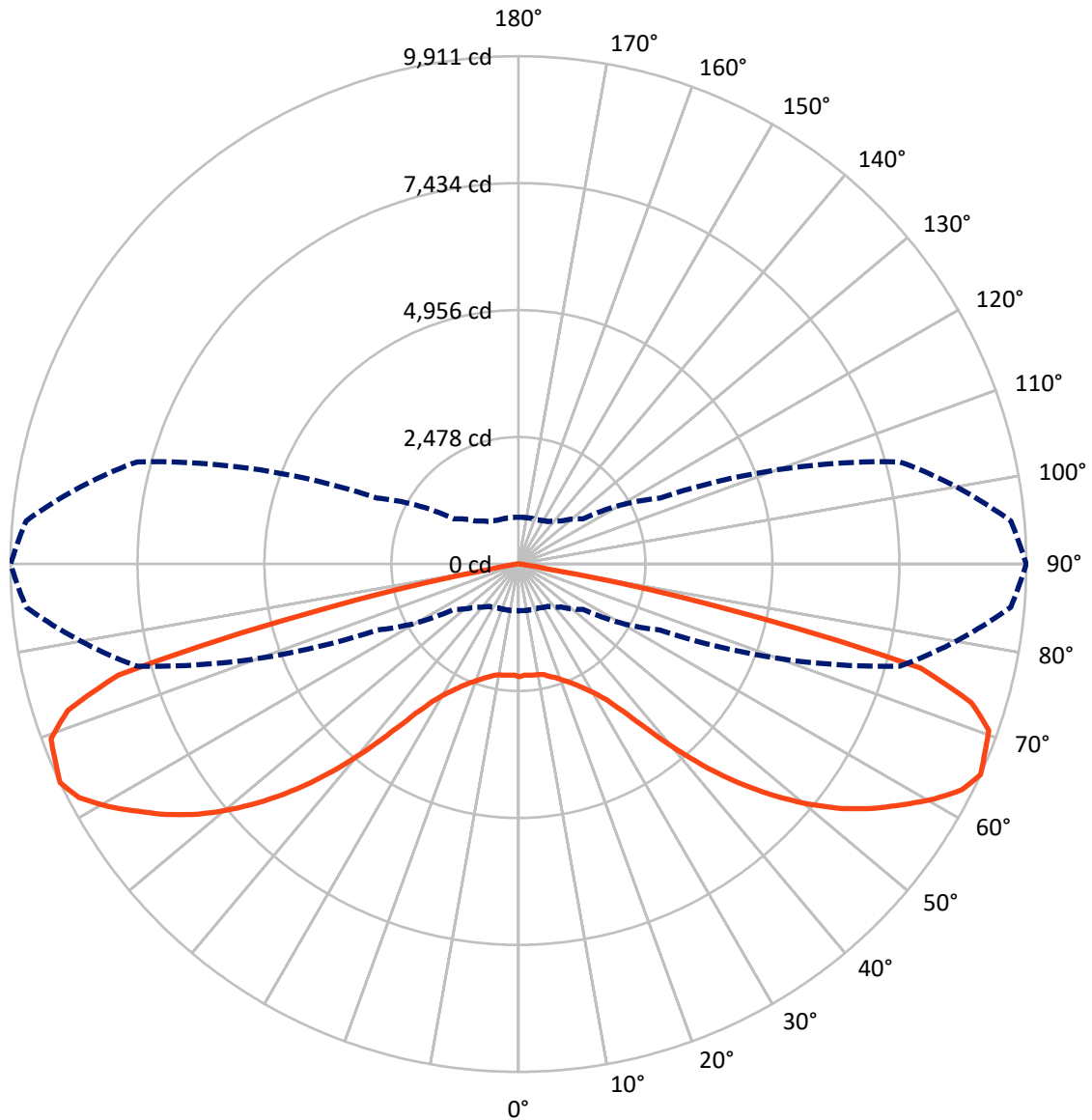


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6466.5	0.0	6466.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6466.5	0.0	6466.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12933.0	0.0	12933.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	1.6
10°-20°	615.9	4.8
20°-30°	1009.9	7.8
30°-40°	1460.2	11.3
40°-50°	2138.2	16.5
50°-60°	2773.8	21.4
60°-70°	2933.5	22.7
70°-80°	1722.1	13.3
80°-90°	70.9	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°	12933.0	100.0
0°-180°	12933.0	100.0



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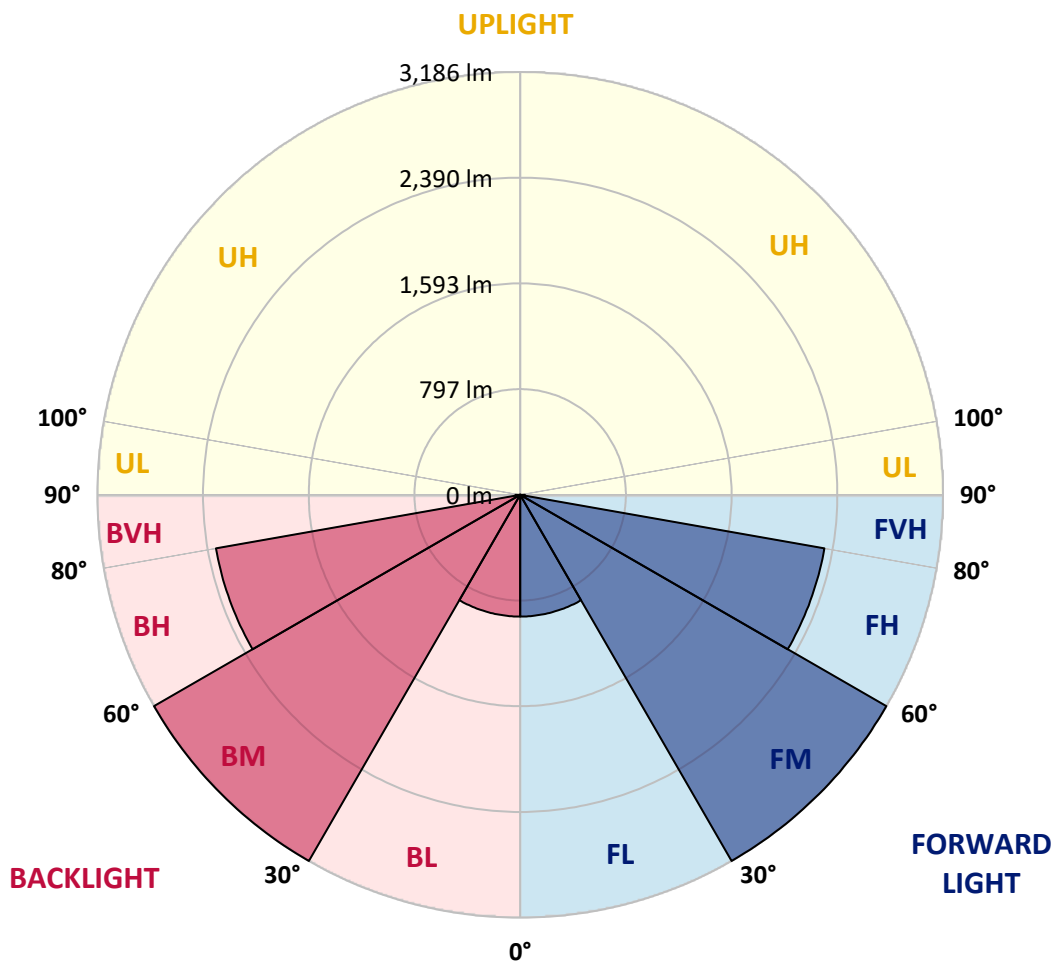
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	917.1	7.1			
FM	(30°-60°)	3186.1	24.6			
FH	(60°-80°)	2327.8	18.0			G2/5000
FVH	(80°-90°)	35.5	0.3			G1/100
BL	(0°-30°)	917.1	7.1	B2/1000		
BM	(30°-60°)	3186.1	24.6	B3/5000		
BH	(60°-80°)	2327.8	18.0	B3/2500		G2/5000
BVH	(80°-90°)	35.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3	2201.3
2.5°	2222.5	2220.3	2208.0	2190.1	2184.6	2189.0	2187.9	2182.3	2182.3	2184.6	2170.0
5°	2209.1	2205.8	2191.3	2186.8	2187.9	2193.5	2192.4	2187.9	2190.1	2187.9	2176.7
7.5°	2185.7	2182.3	2173.4	2171.2	2168.9	2177.9	2186.8	2192.4	2199.1	2195.7	2187.9
10°	2163.3	2156.7	2157.8	2146.6	2151.1	2167.8	2176.7	2186.8	2196.8	2195.7	2193.5
12.5°	2129.9	2123.2	2126.5	2123.2	2138.8	2158.9	2185.7	2204.7	2215.8	2212.5	2215.8
15°	2088.6	2086.3	2091.9	2096.4	2124.3	2170.0	2199.1	2240.4	2264.9	2266.0	2273.9
17.5°	2041.7	2037.2	2047.3	2064.0	2115.3	2165.6	2238.1	2283.9	2319.6	2325.2	2331.9
20°	1962.4	1964.7	1980.3	2009.3	2081.9	2172.3	2261.6	2330.8	2382.1	2395.5	2410.0
22.5°	1863.1	1868.7	1897.7	1958.0	2051.7	2164.5	2287.3	2385.5	2459.2	2489.3	2498.2
25°	1759.3	1768.2	1815.1	1895.4	2017.1	2161.1	2319.6	2449.1	2554.0	2602.0	2607.6
27.5°	1666.6	1674.4	1734.7	1837.4	1984.7	2162.2	2348.7	2526.1	2667.9	2738.2	2749.4
30°	1572.8	1581.8	1644.3	1771.5	1952.4	2160.0	2382.1	2613.2	2804.1	2904.6	2921.3
32.5°	1492.5	1501.4	1566.1	1699.0	1912.2	2156.7	2422.3	2719.3	2968.2	3131.2	3153.5
35°	1424.4	1434.4	1500.3	1630.9	1860.8	2157.8	2480.4	2864.4	3222.7	3491.7	3535.3
37.5°	1367.4	1377.5	1435.5	1567.3	1808.4	2148.8	2550.7	3047.4	3559.8	4005.2	4085.6
40°	1331.7	1340.7	1384.2	1501.4	1744.7	2128.7	2632.2	3250.6	3971.7	4621.4	4762.0
42.5°	1294.9	1304.9	1340.7	1441.1	1676.7	2098.6	2703.6	3454.9	4401.5	5267.7	5468.6
45°	1254.7	1261.4	1300.5	1390.9	1609.7	2051.7	2766.1	3650.2	4852.5	5924.1	6141.8
47.5°	1221.2	1224.6	1256.9	1340.7	1539.3	1982.5	2782.9	3817.7	5307.9	6562.6	6775.8
50°	1198.9	1193.3	1223.4	1296.0	1473.5	1886.5	2753.9	3942.7	5798.0	7172.1	7374.1
52.5°	1164.3	1163.2	1186.6	1252.5	1411.0	1776.0	2650.0	4003.0	6288.0	7742.5	7930.0
55°	1131.9	1131.9	1150.9	1202.2	1345.1	1662.1	2472.6	3978.4	6758.0	8282.8	8420.1
57.5°	1085.0	1083.9	1099.5	1146.4	1268.1	1555.0	2248.2	3864.6	7139.7	8782.9	8857.7
60°	1039.3	1038.1	1047.1	1082.8	1194.4	1440.0	2008.2	3641.3	7518.1	9224.9	9314.2
62.5°	981.2	980.1	989.0	1020.3	1111.8	1317.2	1772.7	3368.9	7740.3	9479.4	9710.5
65°	912.0	913.1	924.3	944.4	1009.1	1185.5	1539.3	3044.1	7703.4	9644.6	9911.4
67.5°	846.1	842.8	851.7	855.1	903.1	1047.1	1321.7	2786.2	7422.1	9673.7	9818.8
70°	764.7	760.2	760.2	746.8	780.3	885.2	1117.4	2516.1	6622.9	9409.1	9739.5
72.5°	639.6	639.6	632.9	618.4	639.6	717.8	931.0	2214.7	5366.0	8835.3	9245.0
75°	398.5	401.9	416.4	461.0	492.3	541.4	737.9	1866.4	4383.6	7350.7	8106.4
77.5°	204.3	208.7	214.3	215.4	223.3	233.3	351.6	1044.8	2228.1	3662.5	3907.0
80°	51.3	52.5	126.1	140.7	150.7	155.2	129.5	348.3	577.1	540.3	528.0
82.5°	34.6	36.8	72.6	89.3	82.6	62.5	71.4	106.0	86.0	117.2	131.7
85°	19.0	19.0	32.4	34.6	35.7	40.2	35.7	34.6	39.1	74.8	87.1
87.5°	8.9	8.9	13.4	16.7	16.7	20.1	16.7	17.9	17.9	34.6	40.2
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)