

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: P157618

Luminaire Tested: **VST-E10-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157618
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E10-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (210) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26649 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

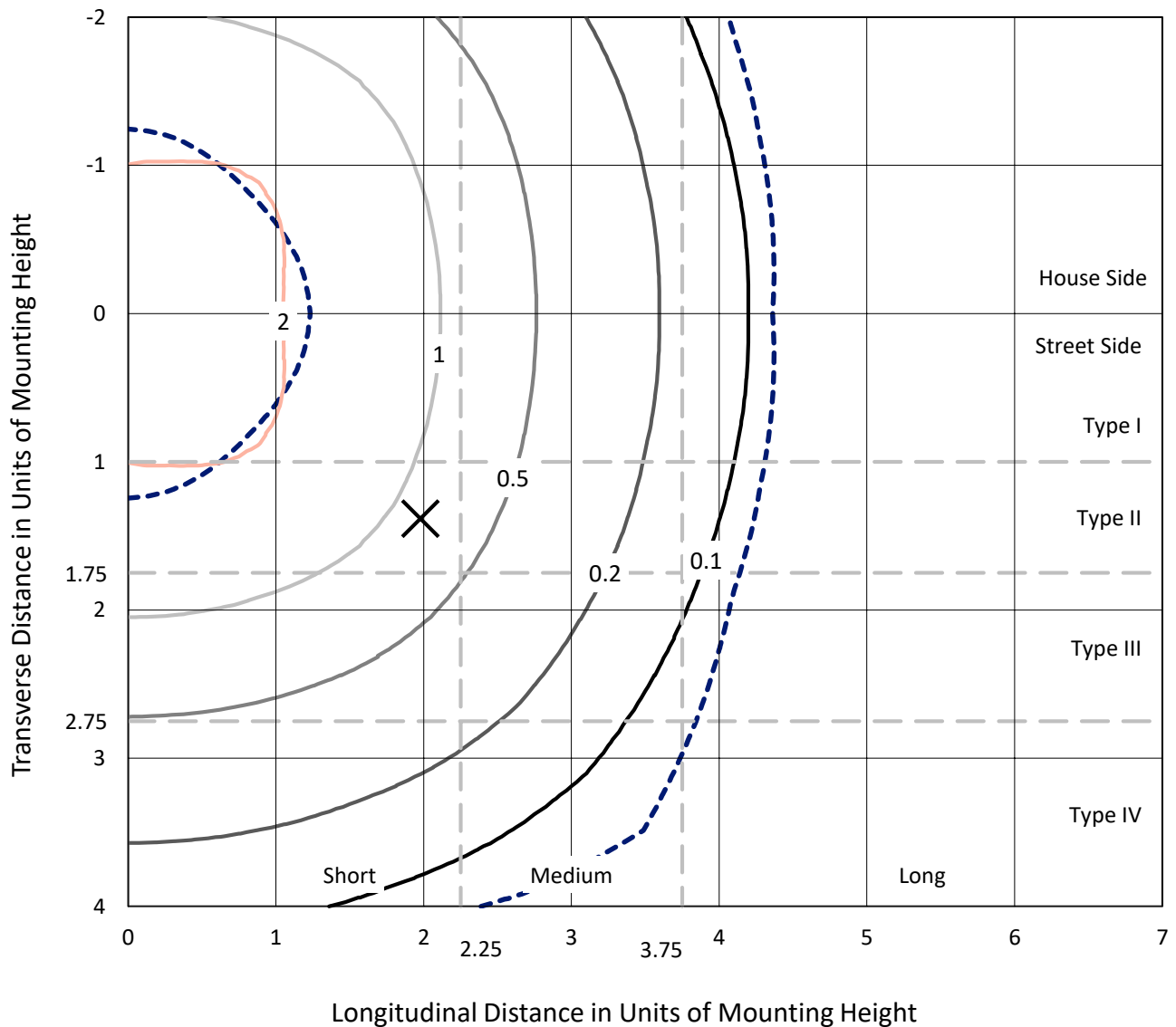
Input Watts (W): 247.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

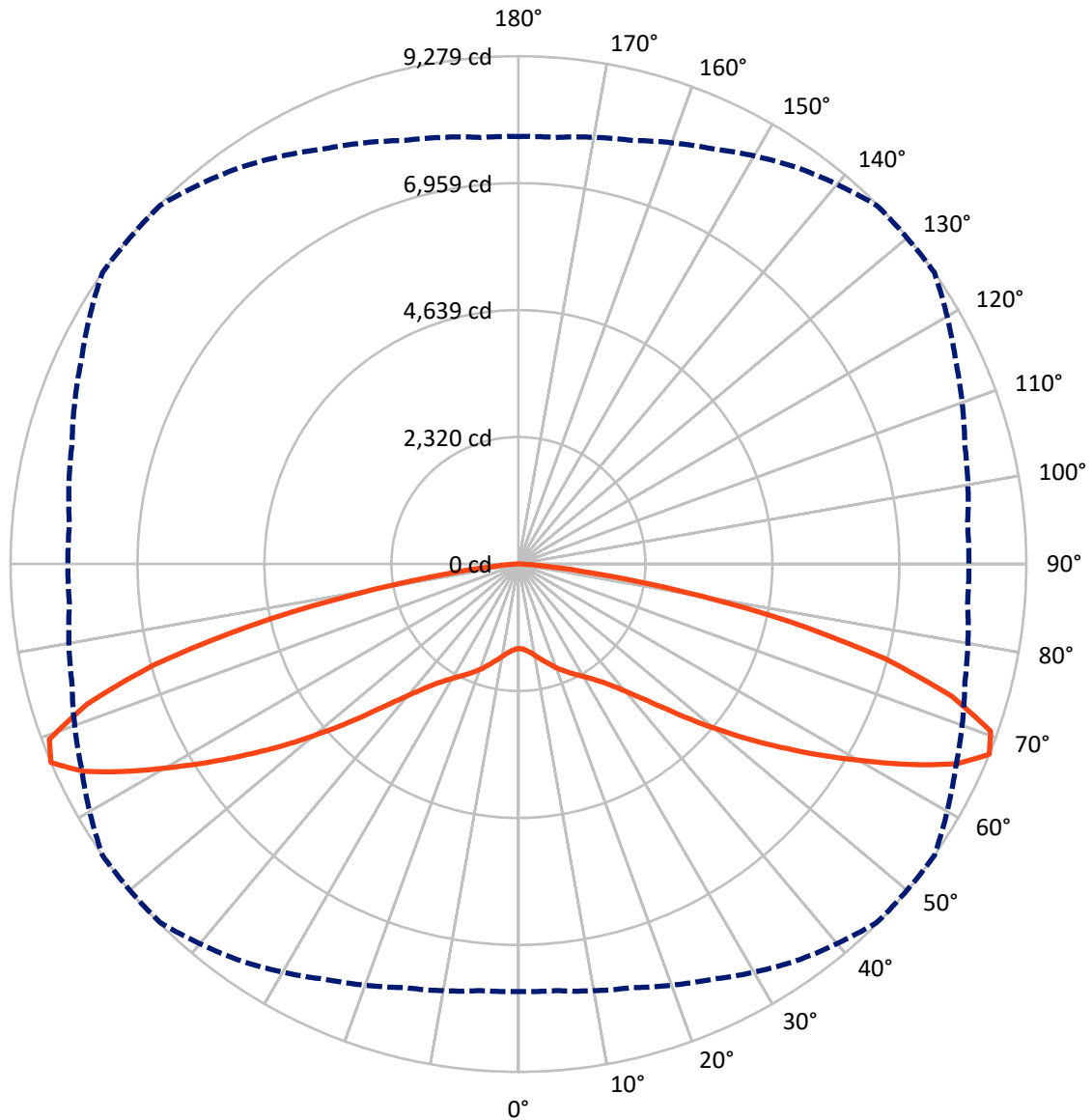
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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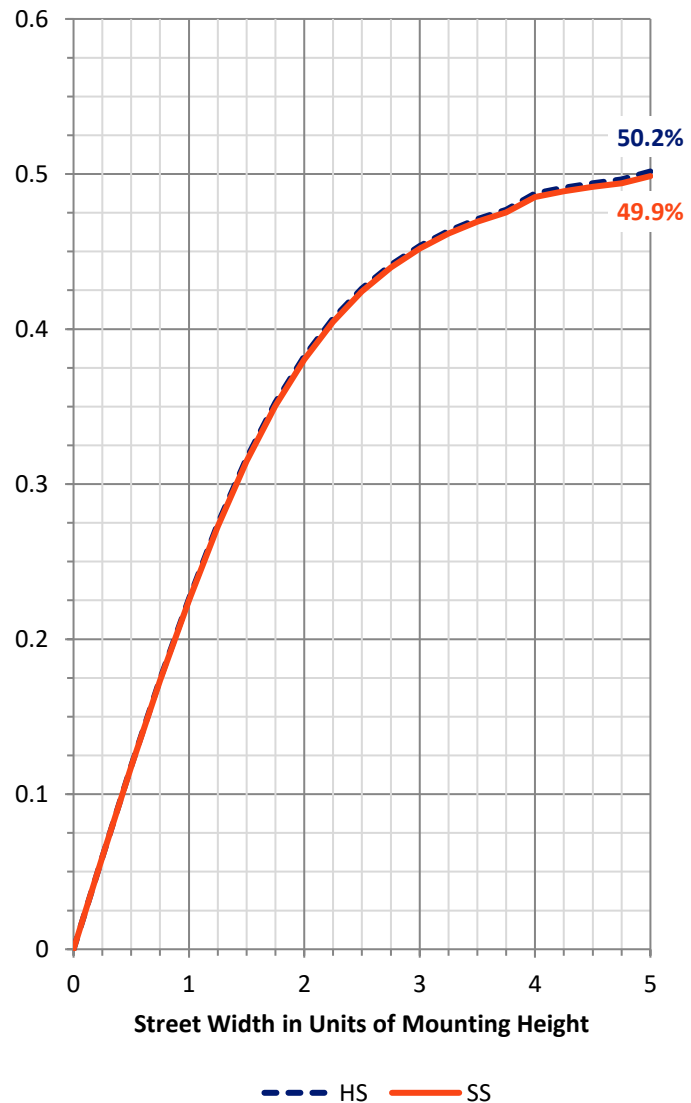
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13324.5	0.0	13324.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13324.5	0.0	13324.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26649.0	0.0	26649.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	0.6
10°-20°	530.2	2.0
20°-30°	1019.5	3.8
30°-40°	1670.1	6.3
40°-50°	2903.4	10.9
50°-60°	5182.4	19.4
60°-70°	8001.4	30.0
70°-80°	6477.1	24.3
80°-90°	709.5	2.7
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°	26649.0	100.0
0°-180°	26649.0	100.0



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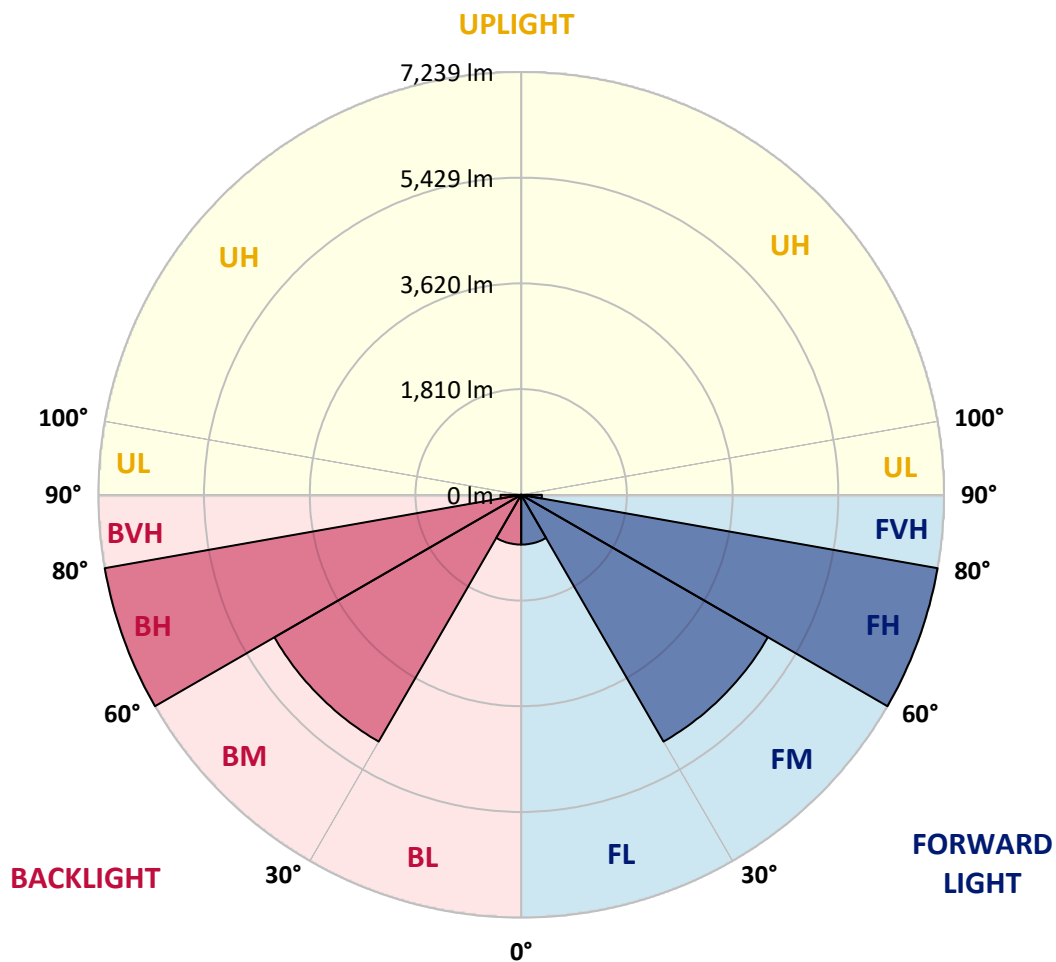
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	852.5	3.2			
FM	(30°-60°)	4878.0	18.3			
FH	(60°-80°)	7239.2	27.2			G3/7500
FVH	(80°-90°)	354.8	1.3			G3/500
BL	(0°-30°)	852.5	3.2	B2/1000		
BM	(30°-60°)	4878.0	18.3	B3/5000		
BH	(60°-80°)	7239.2	27.2	B5		G3/7500
BVH	(80°-90°)	354.8	1.3			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2
2.5°	1556.3	1558.0	1556.3	1556.3	1554.6	1554.6	1554.6	1556.3	1556.3	1559.7	1558.0
5°	1588.4	1590.1	1586.7	1590.1	1590.1	1591.8	1590.1	1588.4	1590.1	1591.8	1586.7
7.5°	1634.0	1637.3	1635.7	1637.3	1639.0	1637.3	1637.3	1635.7	1639.0	1637.3	1634.0
10°	1693.0	1696.4	1694.7	1698.1	1699.8	1701.5	1701.5	1698.1	1696.4	1696.4	1694.7
12.5°	1763.9	1763.9	1763.9	1769.0	1772.4	1775.8	1774.1	1770.7	1765.6	1767.3	1760.6
15°	1841.6	1845.0	1845.0	1846.7	1855.1	1856.8	1855.1	1850.0	1848.3	1845.0	1841.6
17.5°	1927.7	1929.4	1931.1	1932.7	1942.9	1947.9	1941.2	1932.7	1932.7	1931.1	1931.1
20°	2017.1	2015.5	2018.8	2022.2	2029.0	2034.0	2032.3	2023.9	2017.1	2022.2	2020.5
22.5°	2099.8	2101.5	2103.2	2108.3	2120.1	2121.8	2116.7	2110.0	2101.5	2103.2	2103.2
25°	2177.5	2179.2	2182.6	2189.3	2202.8	2211.3	2204.5	2194.4	2182.6	2182.6	2184.2
27.5°	2256.8	2258.5	2260.2	2272.0	2288.9	2299.0	2294.0	2277.1	2263.6	2260.2	2255.1
30°	2344.6	2344.6	2348.0	2363.2	2385.1	2396.9	2390.2	2369.9	2349.7	2346.3	2346.3
32.5°	2456.0	2449.3	2454.3	2474.6	2498.2	2511.7	2506.7	2483.0	2457.7	2452.6	2452.6
35°	2589.4	2586.0	2589.4	2613.0	2641.7	2661.9	2650.1	2628.2	2601.2	2596.1	2592.7
37.5°	2748.0	2749.7	2759.9	2786.9	2825.7	2851.0	2839.2	2803.7	2771.7	2771.7	2771.7
40°	2948.9	2952.3	2972.5	3013.0	3068.8	3090.7	3077.2	3033.3	2996.2	2982.7	2986.0
42.5°	3222.4	3220.7	3252.7	3303.4	3369.2	3401.3	3379.3	3332.1	3278.1	3256.1	3257.8
45°	3544.8	3568.4	3602.2	3666.3	3749.0	3804.7	3765.9	3713.6	3632.5	3600.5	3598.8
47.5°	3934.7	3960.0	4002.2	4108.5	4208.1	4275.7	4245.3	4159.2	4042.7	3997.1	3980.3
50°	4378.6	4410.7	4464.7	4601.4	4743.2	4819.2	4765.2	4652.1	4527.2	4458.0	4441.1
52.5°	4878.3	4888.4	4969.4	5134.8	5310.4	5403.2	5342.5	5207.4	5047.1	4982.9	4935.7
55°	5431.9	5440.4	5533.2	5720.6	5919.8	6029.5	5951.8	5781.3	5632.8	5521.4	5531.5
57.5°	5945.1	5970.4	6107.1	6326.6	6561.2	6694.5	6610.1	6429.5	6274.2	6147.6	6162.8
60°	6493.7	6520.7	6664.2	6925.8	7243.1	7420.4	7310.6	7116.5	6956.2	6836.3	6821.1
62.5°	7076.0	7091.2	7248.2	7482.8	7887.9	8173.2	8068.6	7854.2	7666.8	7548.7	7536.8
65°	7614.5	7634.7	7768.1	8024.7	8441.6	8858.5	8799.4	8502.4	8249.2	8078.7	8055.0
67.5°	7810.3	7823.8	8011.2	8370.7	8850.1	9262.0	9278.8	8811.3	8443.3	8235.7	8230.6
70°	7580.7	7590.9	7830.5	8257.6	8868.7	9211.3	9150.5	8681.3	8228.9	7974.0	7948.7
72.5°	7065.9	7067.6	7287.0	7649.9	8262.7	8542.9	8284.6	8026.4	7558.8	7368.0	7317.4
75°	6129.1	6130.8	6282.7	6524.0	6961.2	7219.5	6925.8	6689.5	6414.3	6301.2	6242.2
77.5°	4214.9	4240.2	4397.2	4675.7	5155.1	5440.4	5055.5	4626.8	4459.6	4363.4	4306.0
80°	2029.0	2067.8	2248.4	2523.5	3024.9	3480.6	3006.3	2478.0	2152.2	1887.2	1934.4
82.5°	541.8	548.6	703.9	1011.1	1409.5	1654.2	1343.6	940.2	592.5	398.4	364.6
85°	143.5	151.9	212.7	292.0	443.9	565.5	432.1	275.1	209.3	155.3	141.8
87.5°	38.8	45.6	74.3	89.5	111.4	89.5	111.4	96.2	92.8	49.0	35.4
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)