

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: P157619

Luminaire Tested: **VST-E10-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157619
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (210) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28839 lumens
Efficiency: N/A
Efficacy: 116.4 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 - G4

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

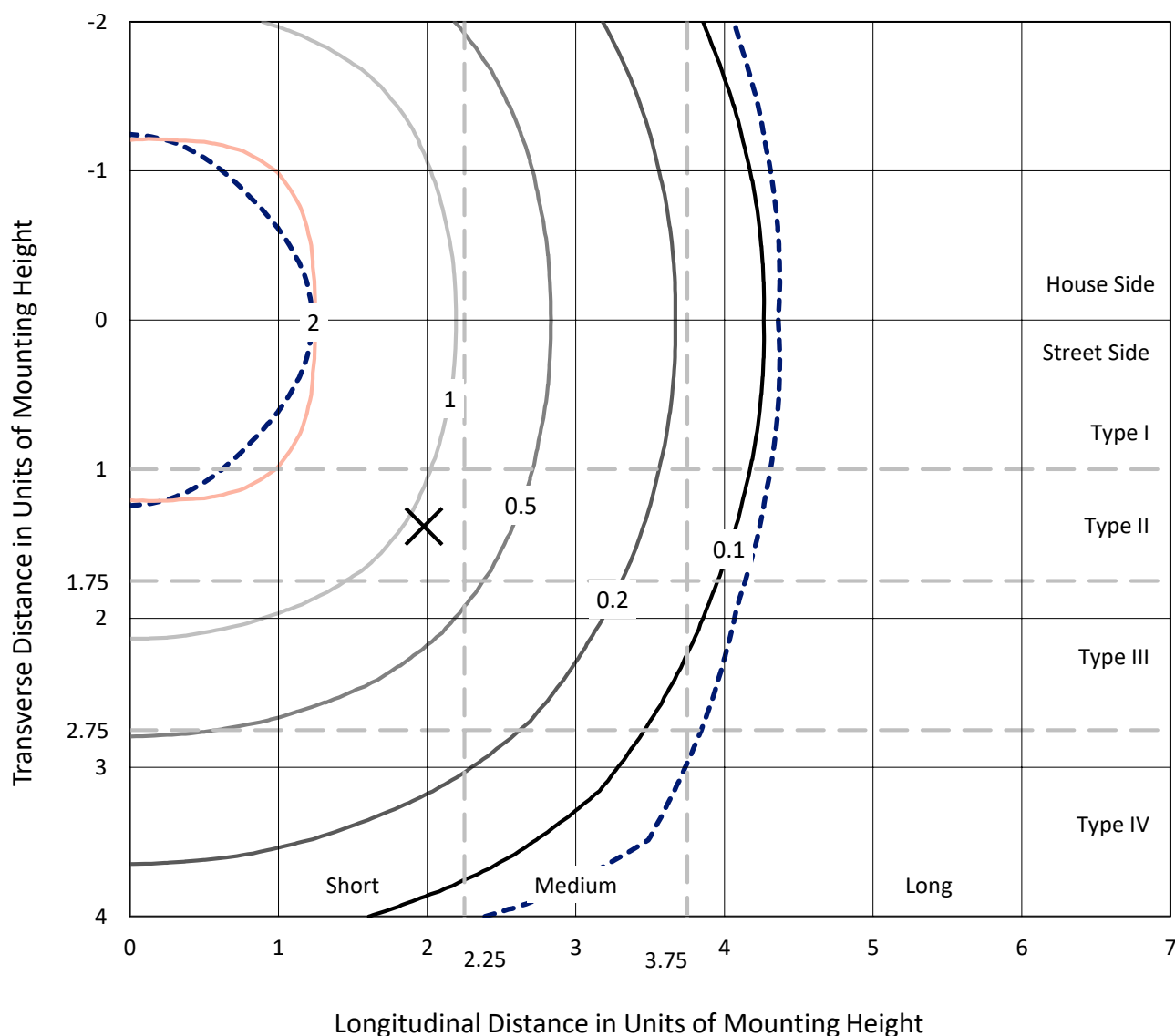


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

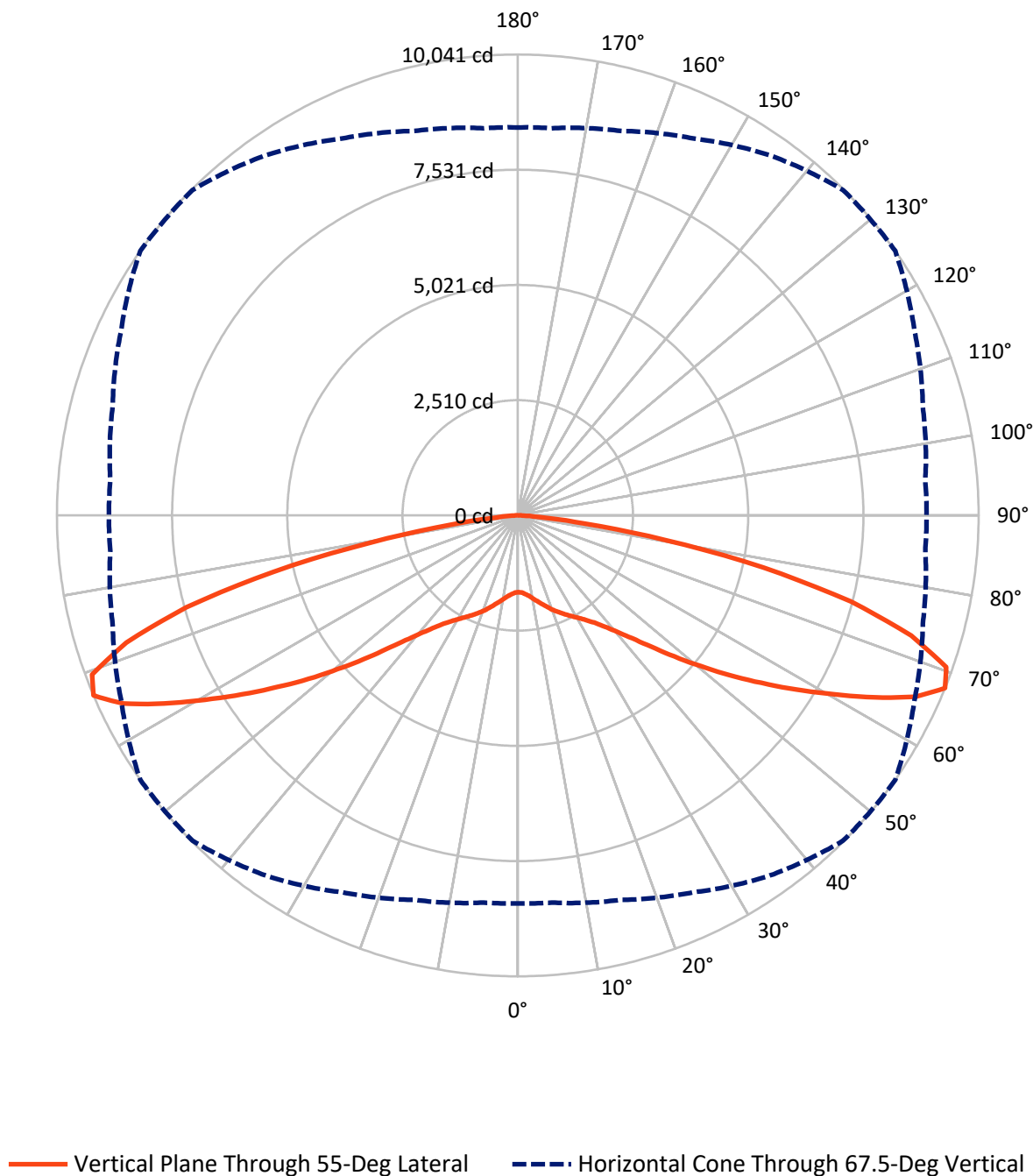


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14419.5	0.0	14419.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14419.5	0.0	14419.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28839.0	0.0	28839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	0.6
10°-20°	573.8	2.0
20°-30°	1103.3	3.8
30°-40°	1807.4	6.3
40°-50°	3142.0	10.9
50°-60°	5608.3	19.4
60°-70°	8658.9	30.0
70°-80°	7009.4	24.3
80°-90°	767.8	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°	28839.0	100.0
0°-180°	28839.0	100.0

Coefficient of Utilization



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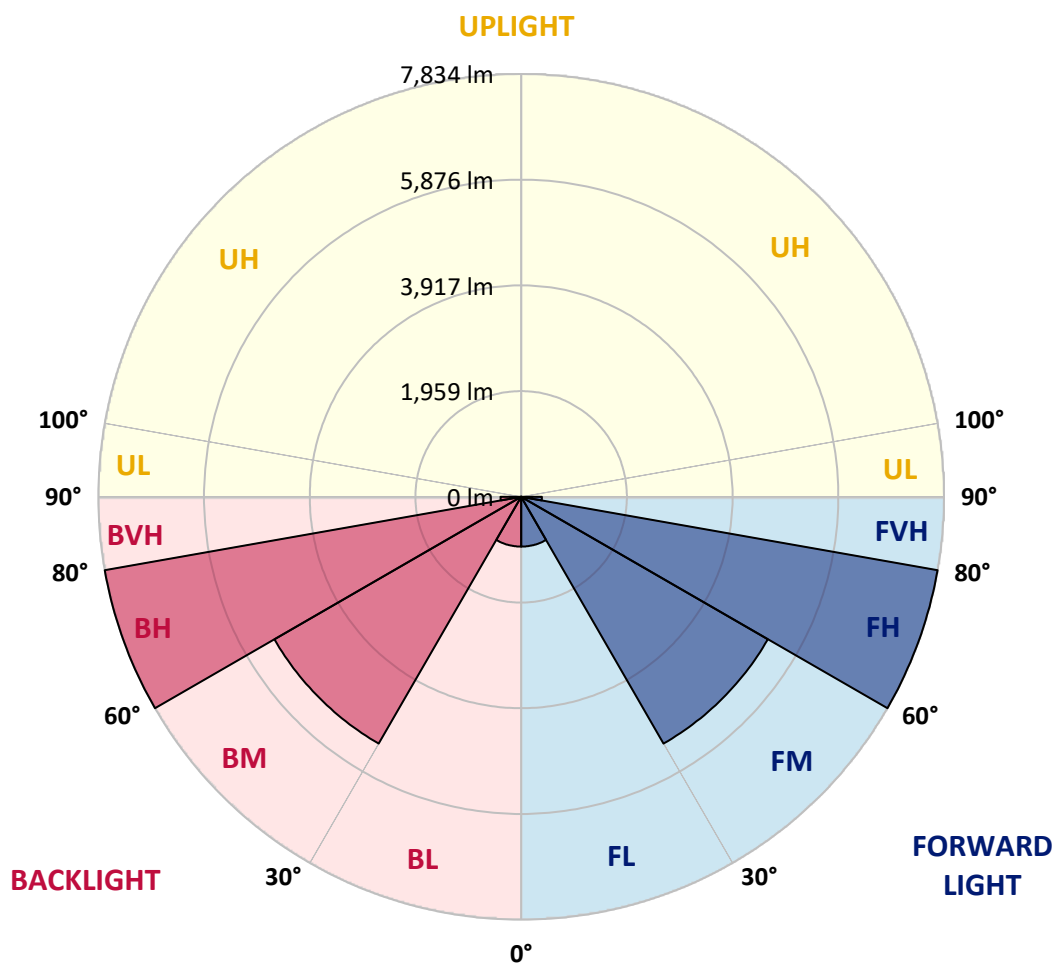
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.5	3.2			
FM	(30°-60°)	5278.9	18.3			
FH	(60°-80°)	7834.2	27.2			G4/12000
FVH	(80°-90°)	383.9	1.3			G3/500
BL	(0°-30°)	922.5	3.2	B2/1000		
BM	(30°-60°)	5278.9	18.3	B4/8500		
BH	(60°-80°)	7834.2	27.2	B5		G4/12000
BVH	(80°-90°)	383.9	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1673.3	1673.3	1673.3	1673.3	1673.3	1673.3	1673.3	1673.3	1673.3	1673.3	1673.3
2.5°	1684.2	1686.0	1684.2	1684.2	1682.4	1682.4	1682.4	1684.2	1684.2	1687.9	1686.0
5°	1718.9	1720.8	1717.1	1720.8	1720.8	1722.6	1720.8	1718.9	1720.8	1722.6	1717.1
7.5°	1768.2	1771.9	1770.1	1771.9	1773.7	1771.9	1771.9	1770.1	1773.7	1771.9	1768.2
10°	1832.2	1835.8	1834.0	1837.7	1839.5	1841.3	1841.3	1837.7	1835.8	1835.8	1834.0
12.5°	1908.9	1908.9	1908.9	1914.4	1918.0	1921.7	1919.9	1916.2	1910.7	1912.6	1905.2
15°	1992.9	1996.6	1996.6	1998.4	2007.5	2009.4	2007.5	2002.1	2000.2	1996.6	1992.9
17.5°	2086.1	2087.9	2089.7	2091.6	2102.5	2108.0	2100.7	2091.6	2091.6	2089.7	2089.7
20°	2182.9	2181.1	2184.7	2188.4	2195.7	2201.2	2199.3	2190.2	2182.9	2188.4	2186.6
22.5°	2272.4	2274.2	2276.1	2281.5	2294.3	2296.2	2290.7	2283.4	2274.2	2276.1	2276.1
25°	2356.4	2358.3	2361.9	2369.2	2383.8	2393.0	2385.7	2374.7	2361.9	2361.9	2363.8
27.5°	2442.3	2444.1	2446.0	2458.7	2477.0	2488.0	2482.5	2464.2	2449.6	2446.0	2440.5
30°	2537.3	2537.3	2540.9	2557.4	2581.1	2593.9	2586.6	2564.7	2542.8	2539.1	2539.1
32.5°	2657.8	2650.5	2656.0	2677.9	2703.5	2718.1	2712.7	2687.1	2659.7	2654.2	2654.2
35°	2802.2	2798.5	2802.2	2827.7	2858.8	2880.7	2867.9	2844.2	2814.9	2809.5	2805.8
37.5°	2973.9	2975.7	2986.7	3015.9	3057.9	3085.3	3072.5	3034.1	2999.4	2999.4	2999.4
40°	3191.2	3194.9	3216.8	3260.7	3320.9	3344.7	3330.1	3282.6	3242.4	3227.8	3231.4
42.5°	3487.2	3485.3	3520.1	3574.9	3646.1	3680.8	3657.1	3605.9	3547.5	3523.7	3525.5
45°	3836.1	3861.6	3898.2	3967.6	4057.1	4117.4	4075.4	4018.7	3931.1	3896.4	3894.5
47.5°	4258.0	4285.4	4331.1	4446.2	4554.0	4627.0	4594.2	4501.0	4374.9	4325.6	4307.4
50°	4738.5	4773.2	4831.6	4979.6	5133.0	5215.2	5156.8	5034.4	4899.2	4824.3	4806.0
52.5°	5279.2	5290.1	5377.8	5556.8	5746.8	5847.3	5781.5	5635.4	5461.8	5392.4	5341.3
55°	5878.3	5887.5	5987.9	6190.7	6406.2	6525.0	6440.9	6256.4	6095.7	5975.1	5986.1
57.5°	6433.6	6461.0	6609.0	6846.5	7100.4	7244.7	7153.4	6957.9	6789.8	6652.8	6669.3
60°	7027.3	7056.5	7211.8	7495.0	7838.4	8030.2	7911.4	7701.4	7527.8	7398.1	7381.7
62.5°	7657.5	7674.0	7843.9	8097.8	8536.2	8844.9	8731.6	8499.6	8296.9	8169.0	8156.2
65°	8240.2	8262.2	8406.5	8684.1	9135.3	9586.5	9522.6	9201.1	8927.1	8742.6	8717.0
67.5°	8452.1	8466.8	8669.5	9058.6	9577.4	10023.1	10041.4	9535.4	9137.2	8912.5	8907.0
70°	8203.7	8214.7	8474.1	8936.2	9597.5	9968.3	9902.5	9394.7	8905.2	8629.3	8601.9
72.5°	7646.6	7648.4	7885.9	8278.6	8941.7	9244.9	8965.4	8686.0	8180.0	7973.5	7918.7
75°	6632.8	6634.6	6799.0	7060.2	7533.3	7812.8	7495.0	7239.2	6941.5	6819.1	6755.1
77.5°	4561.3	4588.7	4758.6	5060.0	5578.7	5887.5	5471.0	5007.0	4826.1	4722.0	4659.9
80°	2195.7	2237.7	2433.2	2730.9	3273.4	3766.7	3253.4	2681.6	2329.0	2042.3	2093.4
82.5°	586.4	593.7	761.7	1094.2	1525.3	1790.2	1454.1	1017.5	641.2	431.1	394.6
85°	155.3	164.4	230.2	316.0	480.4	611.9	467.6	297.8	226.5	168.1	153.4
87.5°	42.0	49.3	80.4	96.8	120.6	96.8	120.6	104.1	100.5	53.0	38.4
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)