

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: P157628

Luminaire Tested: **VST-E11-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157628
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-E11-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (231) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29313.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

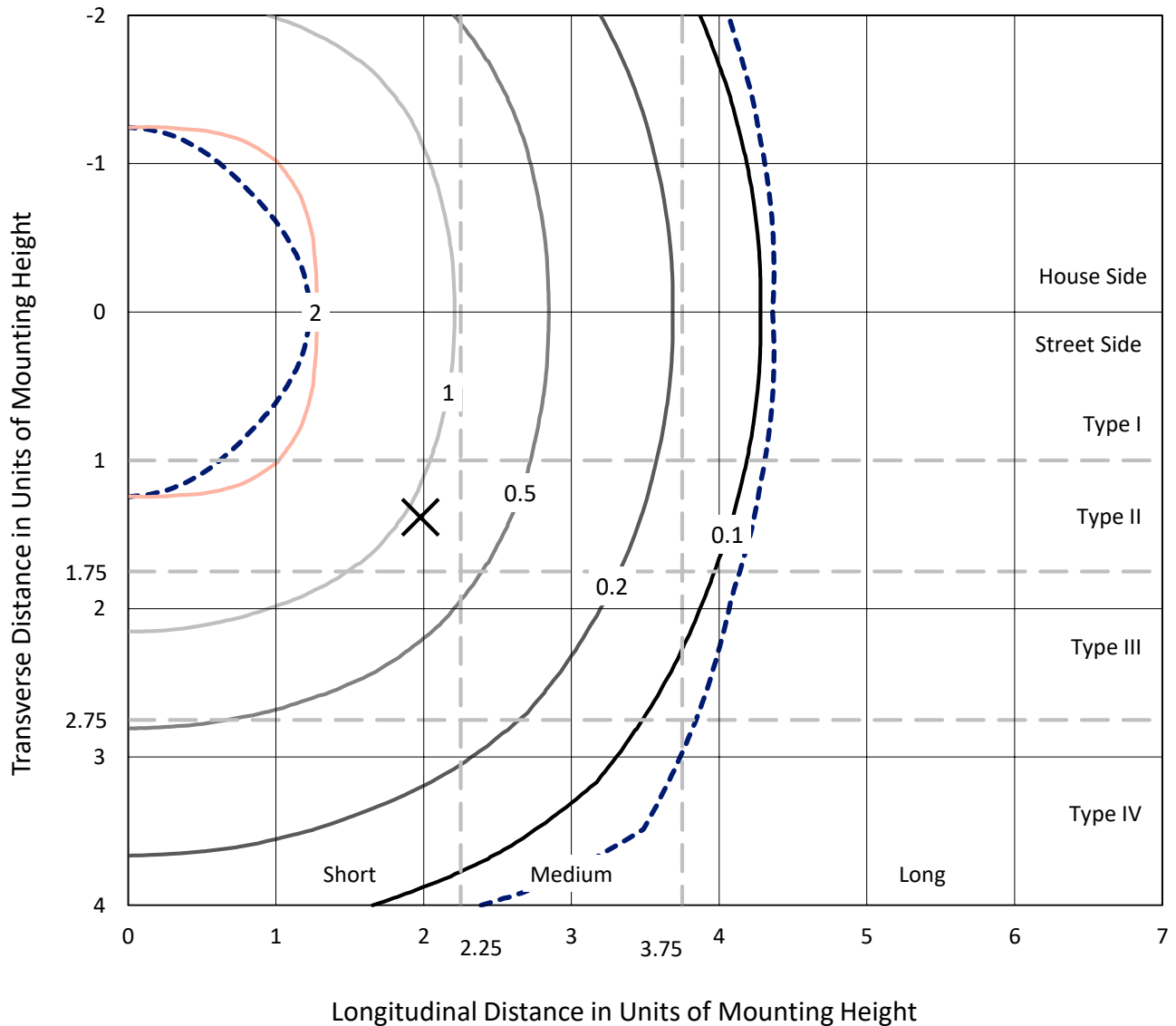
Input Watts (W): 269.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

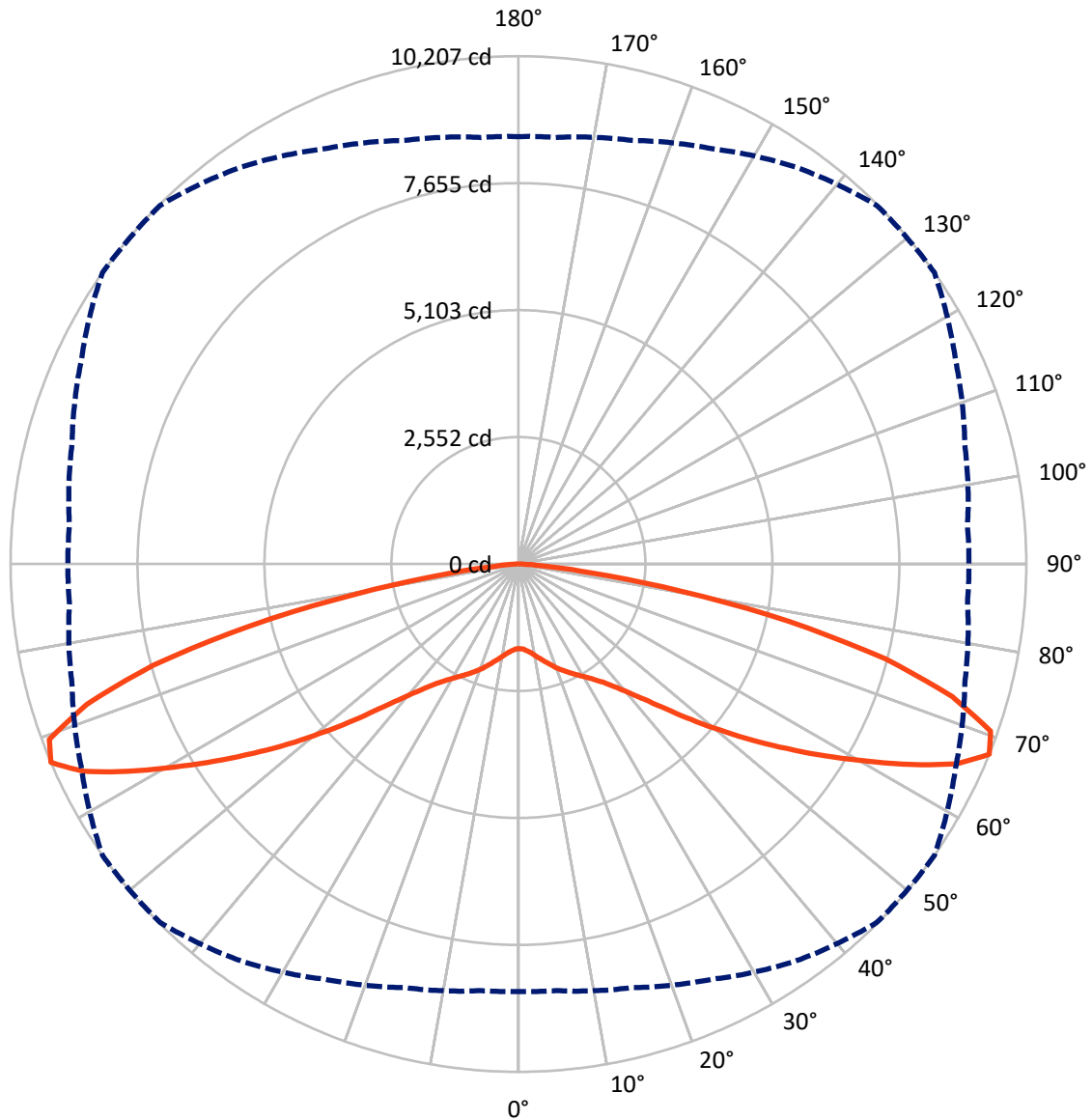
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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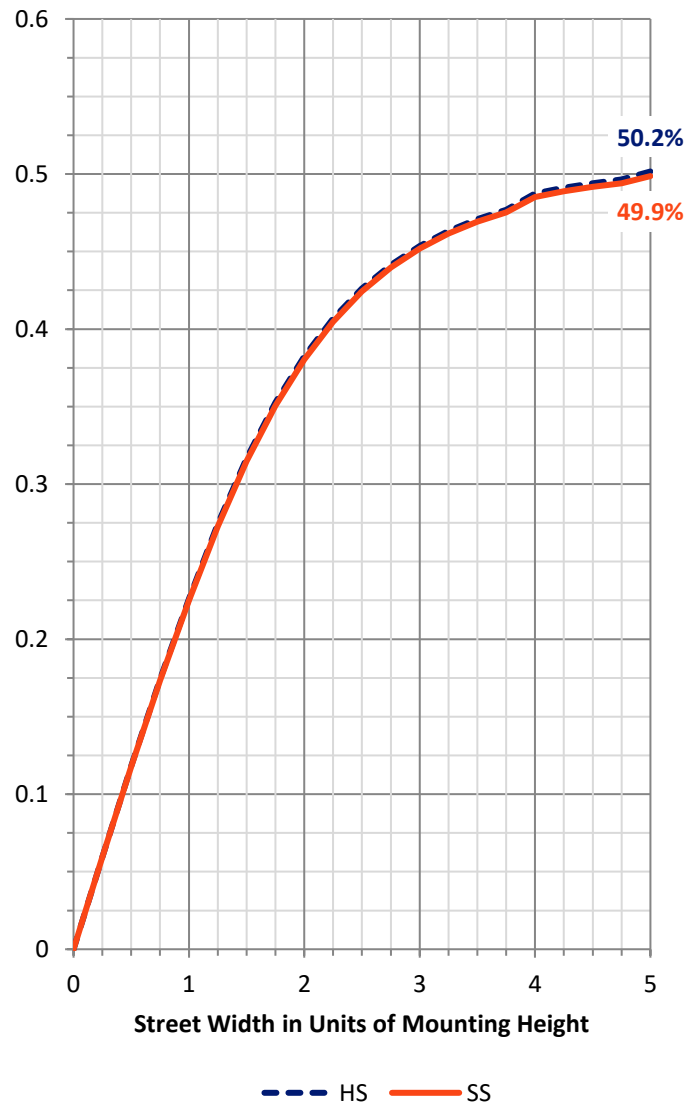
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14656.9	0.0	14656.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14656.9	0.0	14656.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29313.8	0.0	29313.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	0.6
10°-20°	583.3	2.0
20°-30°	1121.5	3.8
30°-40°	1837.2	6.3
40°-50°	3193.8	10.9
50°-60°	5700.7	19.4
60°-70°	8801.5	30.0
70°-80°	7124.8	24.3
80°-90°	780.4	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°	29313.8	100.0
0°-180°	29313.8	100.0



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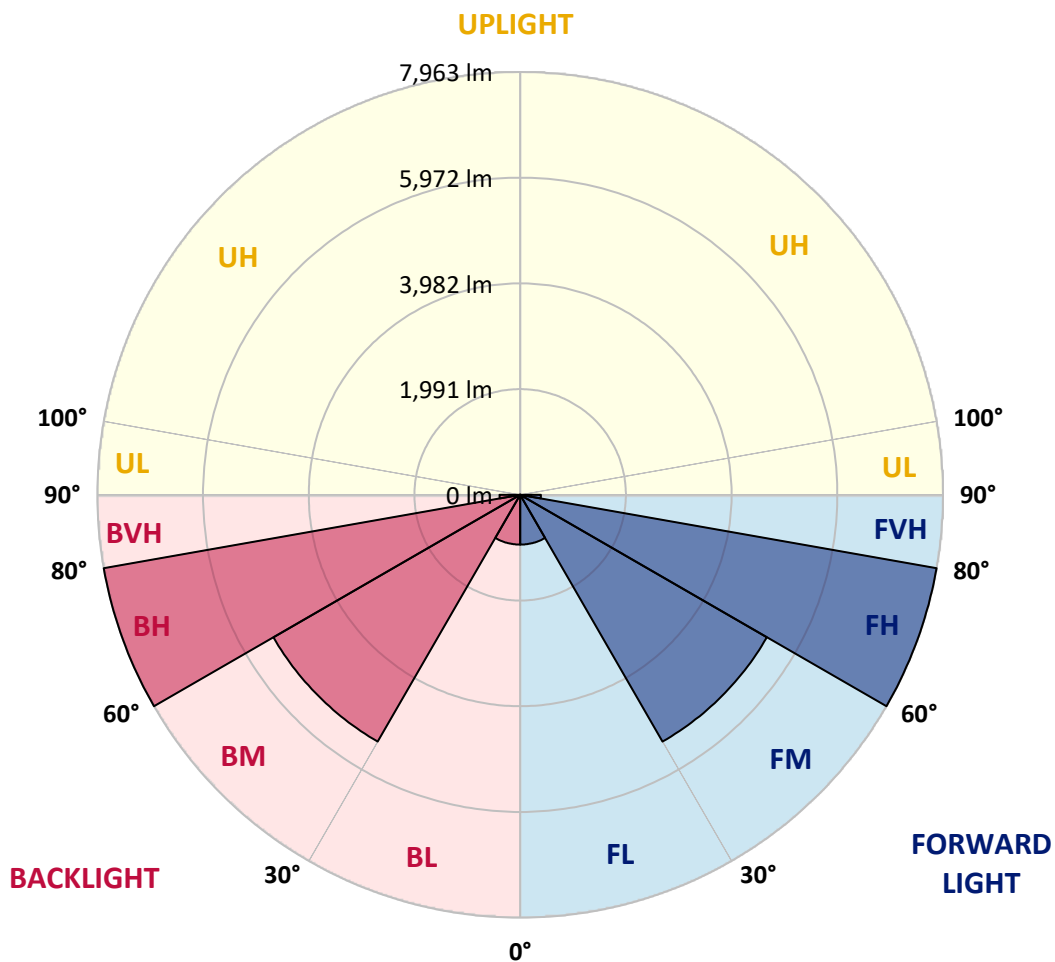
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	937.7	3.2			
FM	(30°-60°)	5365.8	18.3			
FH	(60°-80°)	7963.2	27.2			G4/12000
FVH	(80°-90°)	390.2	1.3			G3/500
BL	(0°-30°)	937.7	3.2	B2/1000		
BM	(30°-60°)	5365.8	18.3	B4/8500		
BH	(60°-80°)	7963.2	27.2	B5		G4/12000
BVH	(80°-90°)	390.2	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°	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1712.0	1713.8	1712.0	1712.0	1710.1	1710.1	1710.1	1712.0	1712.0	1715.7	1713.8
5°	1747.2	1749.1	1745.4	1749.1	1749.1	1750.9	1749.1	1747.2	1749.1	1750.9	1745.4
7.5°	1797.4	1801.1	1799.2	1801.1	1802.9	1801.1	1801.1	1799.2	1802.9	1801.1	1797.4
10°	1862.4	1866.1	1864.2	1867.9	1869.8	1871.6	1871.6	1867.9	1866.1	1866.1	1864.2
12.5°	1940.3	1940.3	1940.3	1945.9	1949.6	1953.3	1951.5	1947.8	1942.2	1944.0	1936.6
15°	2025.7	2029.5	2029.5	2031.3	2040.6	2042.5	2040.6	2035.0	2033.2	2029.5	2025.7
17.5°	2120.4	2122.3	2124.2	2126.0	2137.2	2142.7	2135.3	2126.0	2126.0	2124.2	2124.2
20°	2218.9	2217.0	2220.7	2224.4	2231.8	2237.4	2235.6	2226.3	2218.9	2224.4	2222.6
22.5°	2309.8	2311.7	2313.5	2319.1	2332.1	2334.0	2328.4	2321.0	2311.7	2313.5	2313.5
25°	2395.2	2397.1	2400.8	2408.2	2423.1	2432.4	2425.0	2413.8	2400.8	2400.8	2402.7
27.5°	2482.5	2484.4	2486.2	2499.2	2517.8	2528.9	2523.4	2504.8	2489.9	2486.2	2480.7
30°	2579.1	2579.1	2582.8	2599.5	2623.6	2636.6	2629.2	2606.9	2584.6	2580.9	2580.9
32.5°	2701.6	2694.2	2699.8	2722.0	2748.0	2762.9	2757.3	2731.3	2703.5	2697.9	2697.9
35°	2848.3	2844.6	2848.3	2874.3	2905.9	2928.1	2915.1	2891.0	2861.3	2855.7	2852.0
37.5°	3022.8	3024.7	3035.8	3065.5	3108.2	3136.1	3123.1	3084.1	3048.8	3048.8	3048.8
40°	3243.8	3247.5	3269.8	3314.4	3375.6	3399.8	3384.9	3336.6	3295.8	3280.9	3284.6
42.5°	3544.6	3542.7	3578.0	3633.7	3706.1	3741.4	3717.3	3665.3	3605.9	3581.7	3583.6
45°	3899.2	3925.2	3962.4	4032.9	4123.9	4185.2	4142.5	4084.9	3995.8	3960.5	3958.7
47.5°	4328.2	4356.0	4402.4	4519.4	4629.0	4703.2	4669.8	4575.1	4447.0	4396.9	4378.3
50°	4816.5	4851.8	4911.2	5061.6	5217.6	5301.1	5241.7	5117.3	4979.9	4903.8	4885.2
52.5°	5366.1	5377.2	5466.4	5648.3	5841.4	5943.6	5876.7	5728.2	5551.8	5481.2	5429.2
55°	5975.1	5984.4	6086.5	6292.6	6511.7	6632.4	6547.0	6359.5	6196.1	6073.5	6084.7
57.5°	6539.6	6567.4	6717.8	6959.2	7217.3	7364.0	7271.2	7072.5	6901.7	6762.4	6779.1
60°	7143.0	7172.7	7330.6	7618.4	7967.4	8162.4	8041.7	7828.2	7651.8	7520.0	7503.2
62.5°	7783.6	7800.3	7973.0	8231.1	8676.7	8990.5	8875.4	8639.6	8433.5	8303.5	8290.5
65°	8375.9	8398.2	8544.9	8827.1	9285.8	9744.4	9679.4	9352.6	9074.1	8886.5	8860.6
67.5°	8591.3	8606.2	8812.3	9207.8	9735.1	10188.2	10206.7	9692.4	9287.6	9059.2	9053.7
70°	8338.8	8349.9	8613.6	9083.4	9755.5	10132.4	10065.6	9549.4	9051.8	8771.4	8743.6
72.5°	7772.5	7774.3	8015.7	8414.9	9088.9	9397.2	9113.1	8829.0	8314.7	8104.8	8049.1
75°	6742.0	6743.8	6910.9	7176.5	7657.4	7941.4	7618.4	7358.4	7055.8	6931.4	6866.4
77.5°	4636.4	4664.2	4836.9	5143.3	5670.6	5984.4	5561.1	5089.4	4905.6	4799.8	4736.6
80°	2231.8	2274.6	2473.2	2775.9	3327.3	3828.7	3306.9	2725.8	2367.4	2075.9	2127.9
82.5°	596.0	603.5	774.3	1112.2	1550.4	1819.6	1478.0	1034.2	651.7	438.2	401.1
85°	157.8	167.1	234.0	321.2	488.3	622.0	475.3	302.7	230.2	170.8	156.0
87.5°	42.7	50.1	81.7	98.4	122.5	98.4	122.5	105.8	102.1	53.8	39.0
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)