

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: P157574

Luminaire Tested: **VST-F05-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157574
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-F05-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11903.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

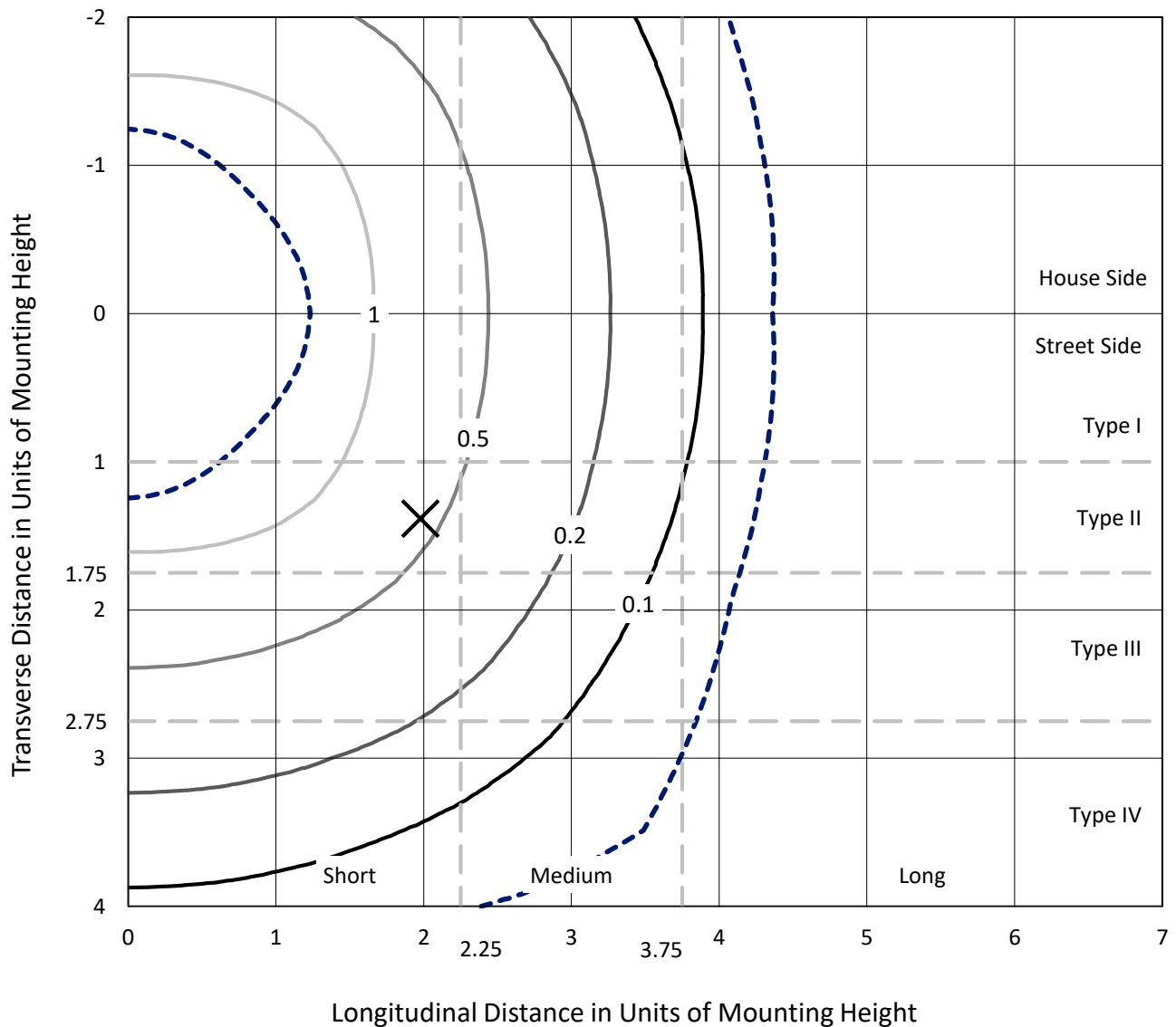
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

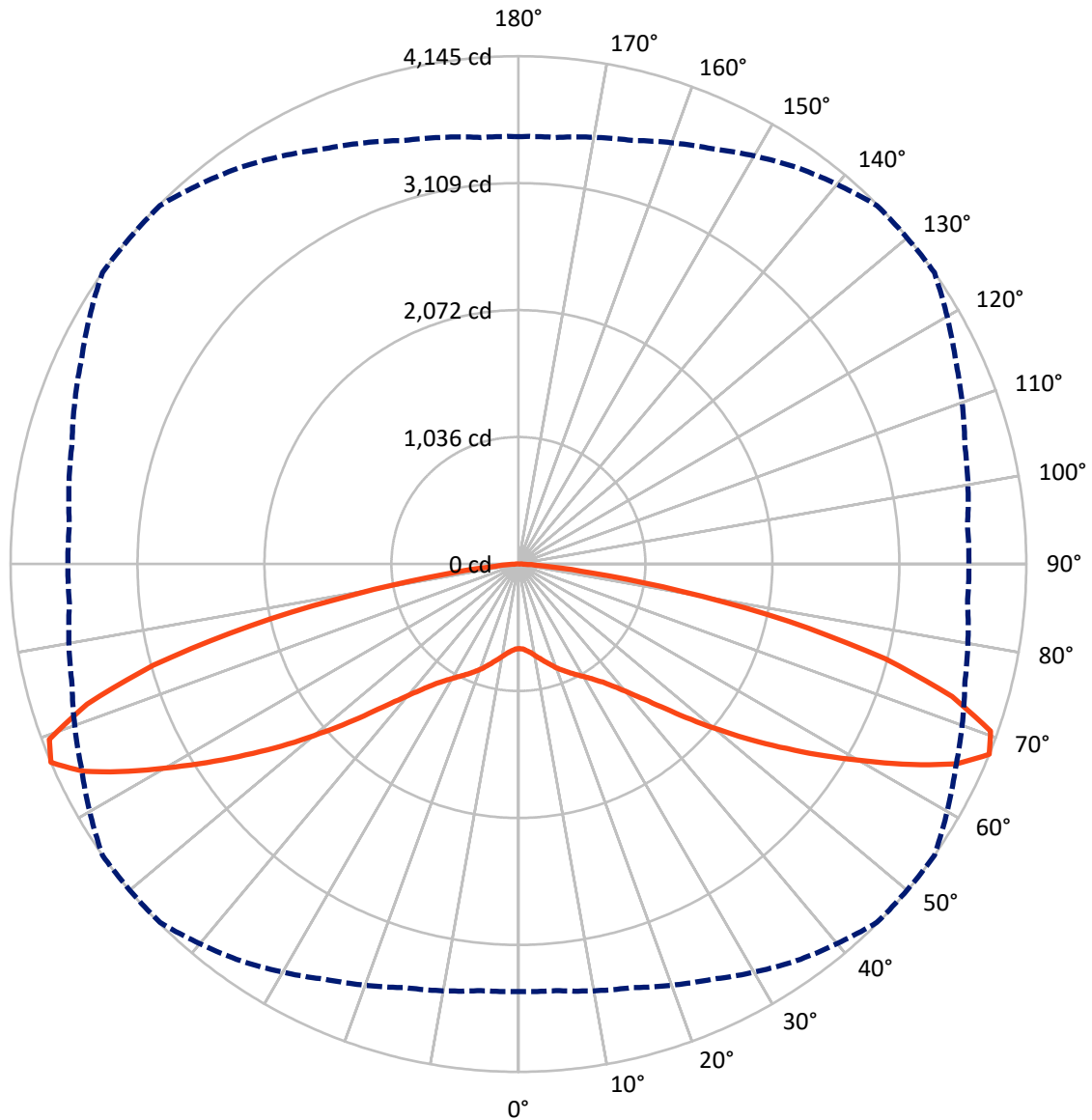
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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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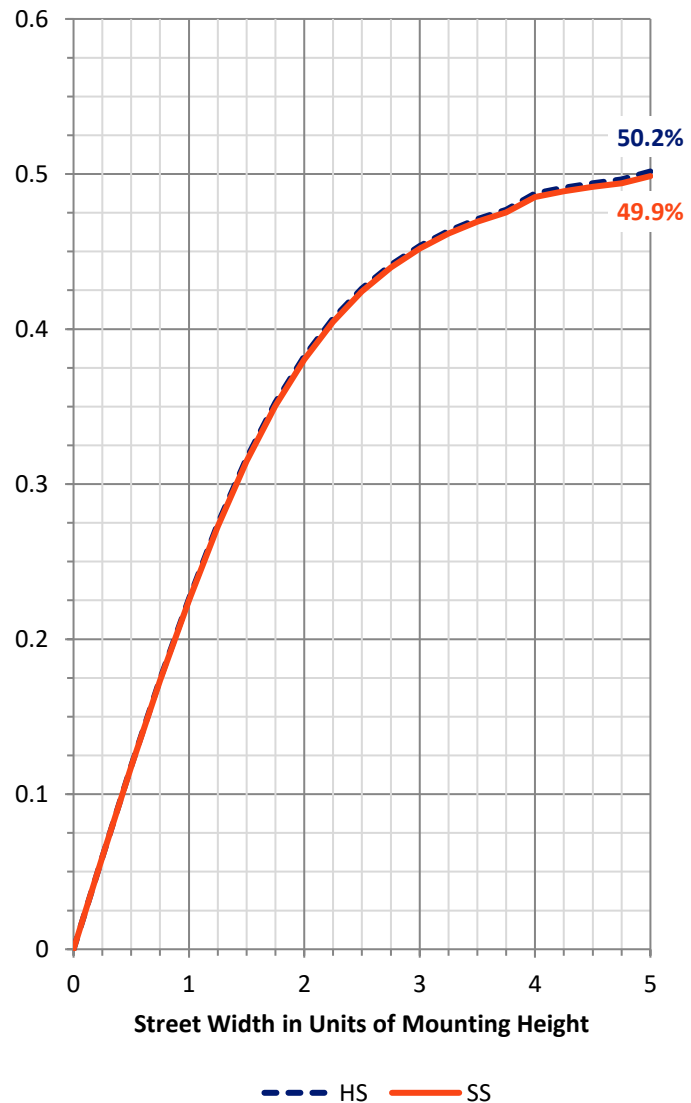
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5951.8	0.0	5951.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5951.8	0.0	5951.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	11903.7	0.0	11903.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	0.6
10°-20°	236.8	2.0
20°-30°	455.4	3.8
30°-40°	746.0	6.3
40°-50°	1296.9	10.9
50°-60°	2314.9	19.4
60°-70°	3574.1	30.0
70°-80°	2893.2	24.3
80°-90°	316.9	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°	11903.7	100.0
0°-180°	11903.7	100.0



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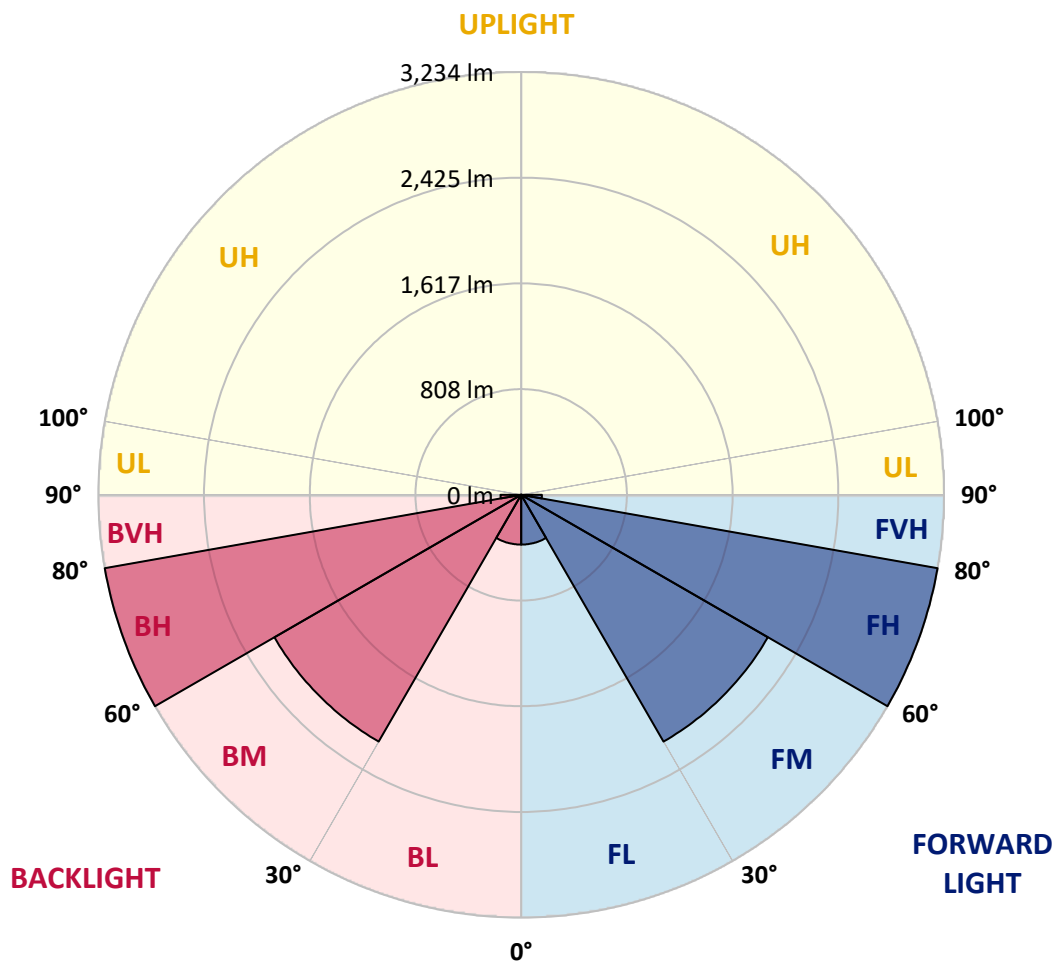
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.8	3.2			
FM	(30°-60°)	2178.9	18.3			
FH	(60°-80°)	3233.7	27.2			G2/5000
FVH	(80°-90°)	158.5	1.3			G2/225
BL	(0°-30°)	380.8	3.2	B1/500		
BM	(30°-60°)	2178.9	18.3	B2/2500		
BH	(60°-80°)	3233.7	27.2	B4/5000		G2/5000
BVH	(80°-90°)	158.5	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7
2.5°	695.2	695.9	695.2	695.2	694.4	694.4	694.4	695.2	695.2	696.7	695.9
5°	709.5	710.3	708.8	710.3	710.3	711.0	710.3	709.5	710.3	711.0	708.8
7.5°	729.9	731.4	730.6	731.4	732.1	731.4	731.4	730.6	732.1	731.4	729.9
10°	756.3	757.8	757.0	758.5	759.3	760.0	760.0	758.5	757.8	757.8	757.0
12.5°	787.9	787.9	787.9	790.2	791.7	793.2	792.4	790.9	788.7	789.4	786.4
15°	822.6	824.1	824.1	824.9	828.6	829.4	828.6	826.4	825.6	824.1	822.6
17.5°	861.1	861.8	862.6	863.3	867.8	870.1	867.1	863.3	863.3	862.6	862.6
20°	901.0	900.3	901.8	903.3	906.3	908.6	907.8	904.0	901.0	903.3	902.5
22.5°	938.0	938.7	939.5	941.7	947.0	947.8	945.5	942.5	938.7	939.5	939.5
25°	972.7	973.4	974.9	977.9	984.0	987.7	984.7	980.2	974.9	974.9	975.7
27.5°	1008.1	1008.8	1009.6	1014.9	1022.4	1026.9	1024.7	1017.1	1011.1	1009.6	1007.3
30°	1047.3	1047.3	1048.8	1055.6	1065.4	1070.7	1067.7	1058.6	1049.6	1048.1	1048.1
32.5°	1097.1	1094.0	1096.3	1105.4	1115.9	1121.9	1119.7	1109.1	1097.8	1095.6	1095.6
35°	1156.6	1155.1	1156.6	1167.2	1180.0	1189.0	1183.8	1174.0	1161.9	1159.6	1158.1
37.5°	1227.5	1228.3	1232.8	1244.8	1262.2	1273.5	1268.2	1252.4	1238.1	1238.1	1238.1
40°	1317.2	1318.7	1327.8	1345.9	1370.8	1380.6	1374.5	1354.9	1338.3	1332.3	1333.8
42.5°	1439.4	1438.6	1452.9	1475.6	1505.0	1519.3	1509.5	1488.4	1464.3	1454.5	1455.2
45°	1583.4	1593.9	1609.0	1637.7	1674.6	1699.5	1682.2	1658.8	1622.6	1608.3	1607.5
47.5°	1757.6	1768.9	1787.7	1835.2	1879.7	1909.9	1896.3	1857.8	1805.8	1785.5	1777.9
50°	1955.9	1970.2	1994.3	2055.4	2118.7	2152.7	2128.5	2078.0	2022.2	1991.3	1983.8
52.5°	2179.0	2183.6	2219.8	2293.6	2372.1	2413.5	2386.4	2326.1	2254.4	2225.8	2204.7
55°	2426.4	2430.1	2471.6	2555.3	2644.3	2693.3	2658.6	2582.4	2516.1	2466.3	2470.8
57.5°	2655.6	2666.9	2727.9	2826.0	2930.8	2990.3	2952.6	2872.0	2802.6	2746.0	2752.8
60°	2900.6	2912.7	2976.8	3093.6	3235.4	3314.6	3265.5	3178.8	3107.2	3053.7	3046.9
62.5°	3160.7	3167.5	3237.6	3342.5	3523.4	3650.8	3604.1	3508.3	3424.6	3371.9	3366.6
65°	3401.3	3410.3	3469.9	3584.5	3770.7	3957.0	3930.6	3797.9	3684.8	3608.6	3598.1
67.5°	3488.7	3494.8	3578.5	3739.1	3953.2	4137.2	4144.7	3935.8	3771.5	3678.7	3676.5
70°	3386.2	3390.7	3497.8	3688.5	3961.5	4114.5	4087.4	3877.8	3675.7	3561.9	3550.6
72.5°	3156.2	3157.0	3255.0	3417.1	3690.8	3816.0	3700.6	3585.2	3376.4	3291.2	3268.6
75°	2737.8	2738.5	2806.4	2914.2	3109.5	3224.8	3093.6	2988.1	2865.2	2814.7	2788.3
77.5°	1882.7	1894.0	1964.2	2088.6	2302.7	2430.1	2258.2	2066.7	1992.1	1949.1	1923.4
80°	906.3	923.6	1004.3	1127.2	1351.2	1554.7	1342.9	1106.9	961.3	843.0	864.1
82.5°	242.0	245.0	314.4	451.6	629.6	738.9	600.2	420.0	264.7	177.9	162.9
85°	64.1	67.9	95.0	130.4	198.3	252.6	193.0	122.9	93.5	69.4	63.3
87.5°	17.3	20.4	33.2	40.0	49.8	40.0	49.8	43.0	41.5	21.9	15.8
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)