

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: P157604

Luminaire Tested: **VST-F08-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157604
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-F08-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19045.8 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

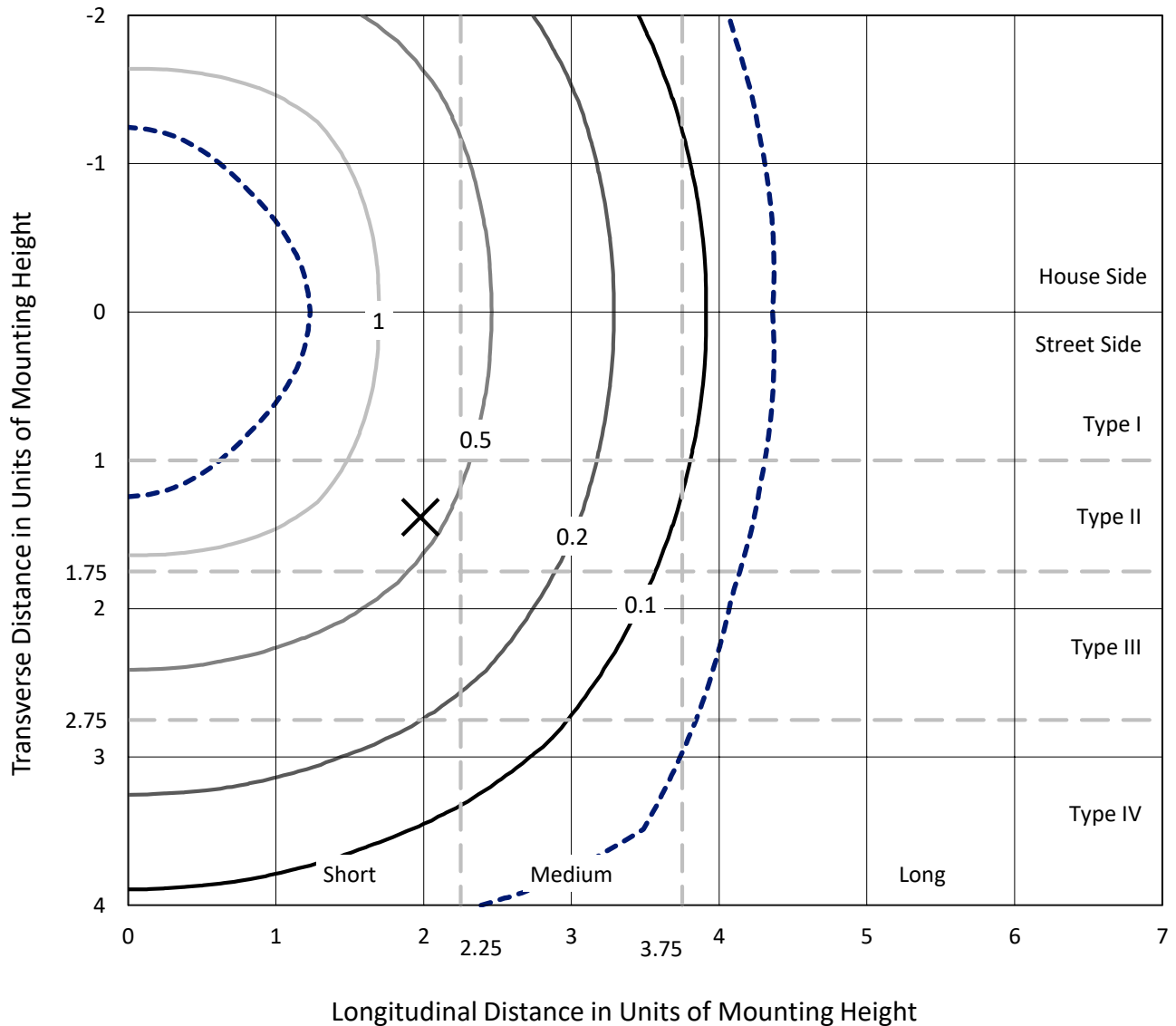
Input Watts (W): 204.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

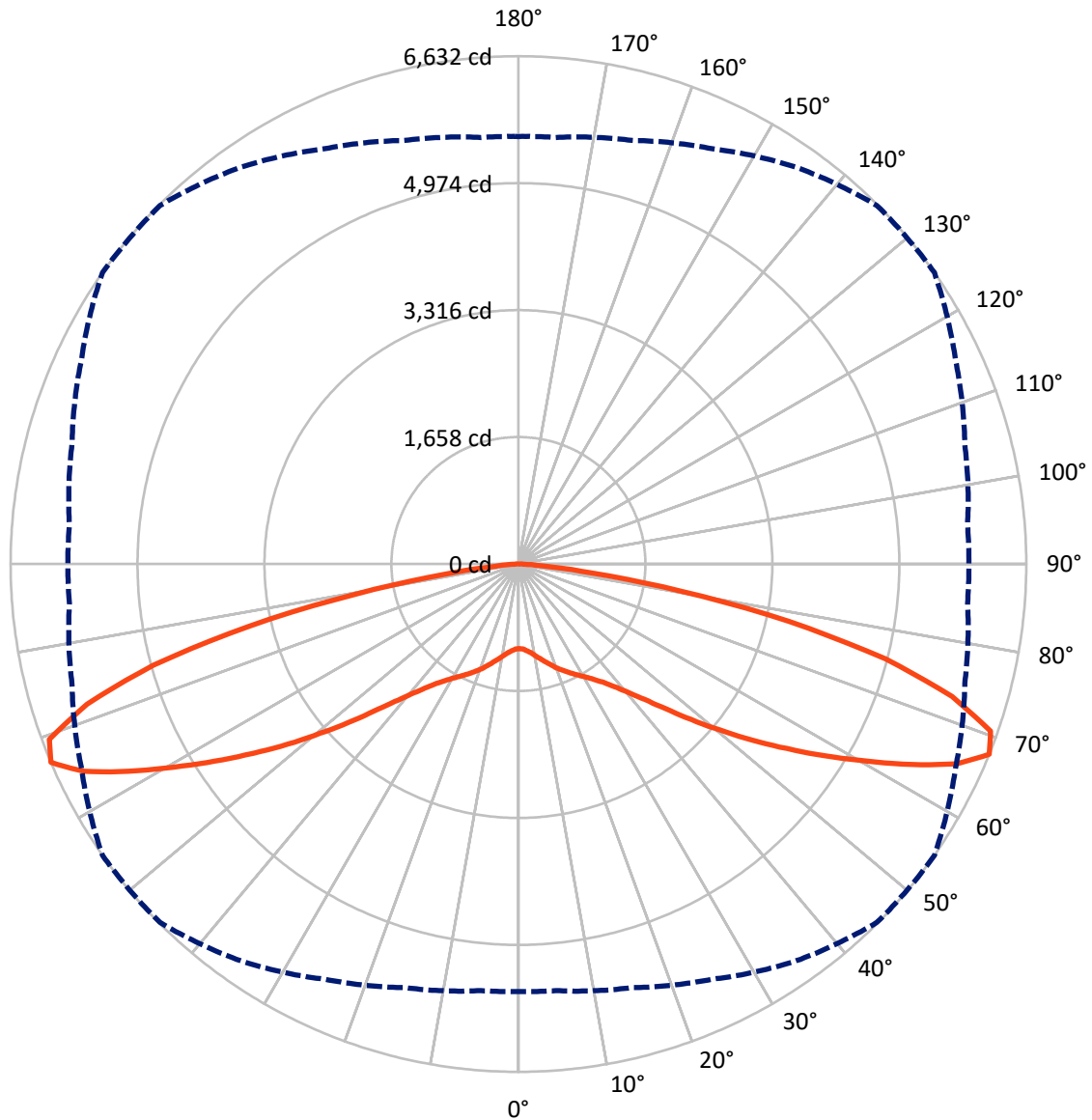
✕ Max cd
 - - - 1/2 Max cd



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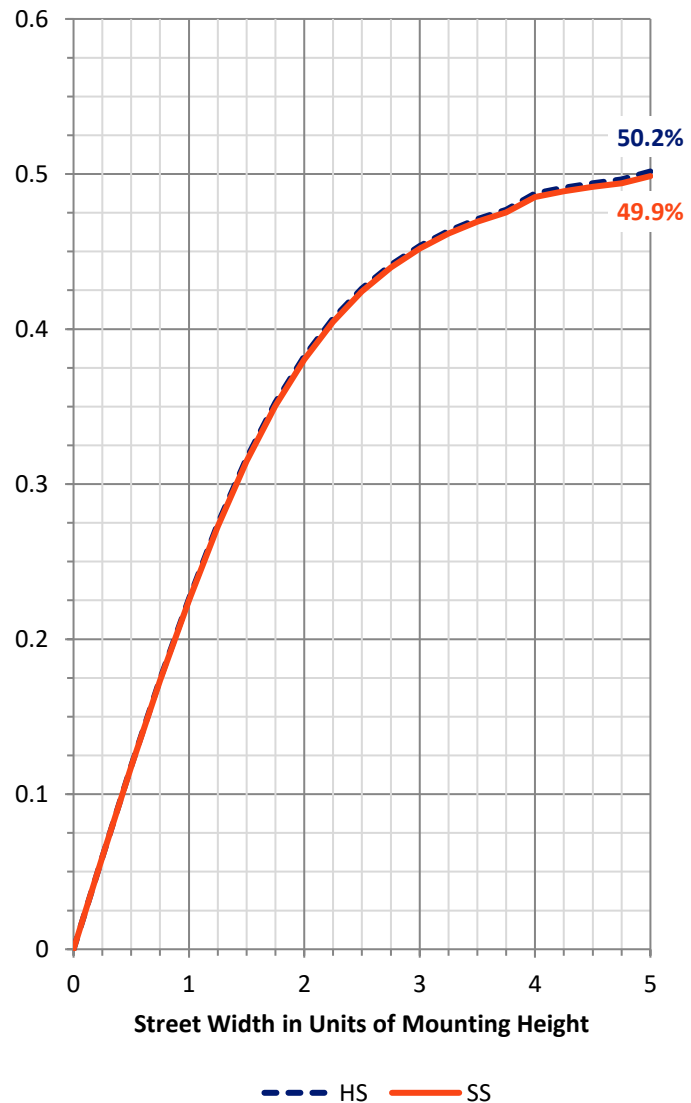
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9522.9	0.0	9522.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9522.9	0.0	9522.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	19045.8	0.0	19045.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	0.6
10°-20°	379.0	2.0
20°-30°	728.7	3.8
30°-40°	1193.6	6.3
40°-50°	2075.1	10.9
50°-60°	3703.8	19.4
60°-70°	5718.5	30.0
70°-80°	4629.2	24.3
80°-90°	507.1	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°	19045.8	100.0
0°-180°	19045.8	100.0



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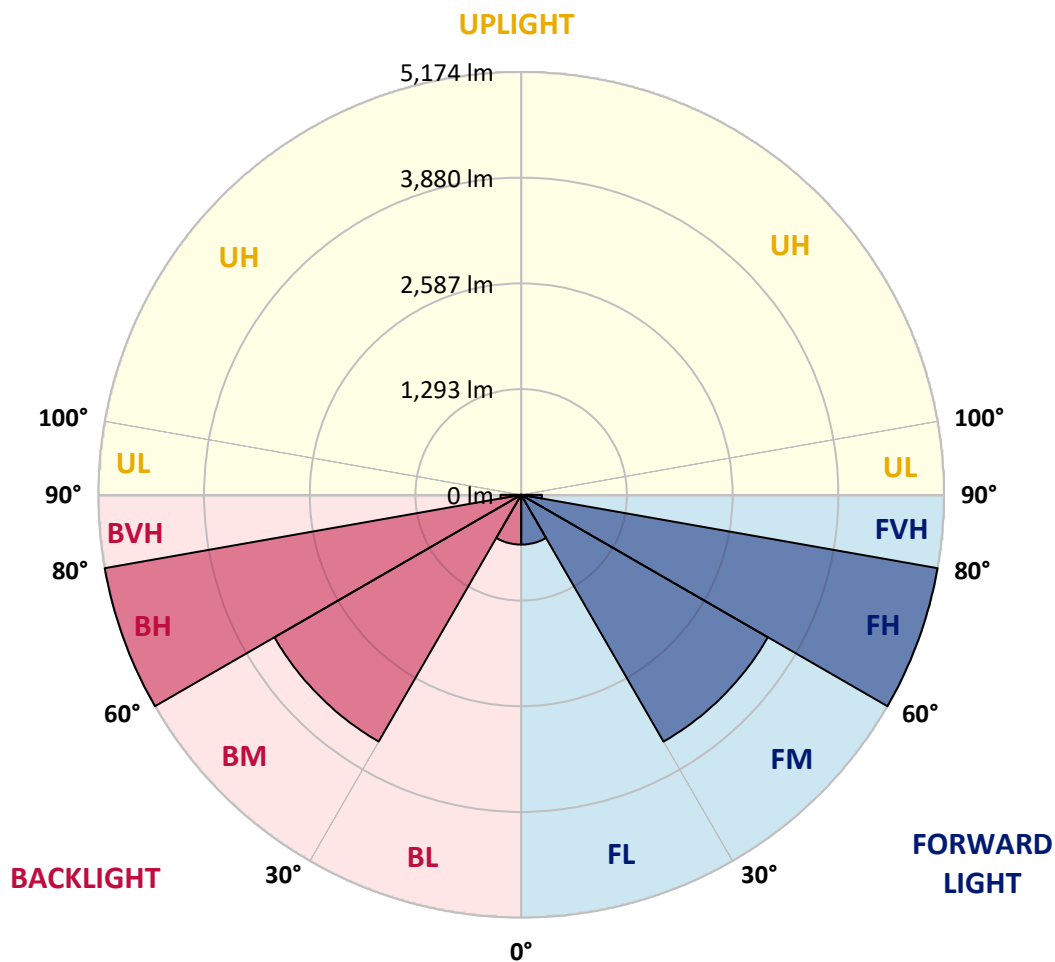
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.3	3.2			
FM	(30°-60°)	3486.3	18.3			
FH	(60°-80°)	5173.8	27.2			G3/7500
FVH	(80°-90°)	253.5	1.3			G3/500
BL	(0°-30°)	609.3	3.2	B2/1000		
BM	(30°-60°)	3486.3	18.3	B3/5000		
BH	(60°-80°)	5173.8	27.2	B5		G3/7500
BVH	(80°-90°)	253.5	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°	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1	1105.1
2.5°	1112.3	1113.5	1112.3	1112.3	1111.1	1111.1	1111.1	1112.3	1112.3	1114.7	1113.5
5°	1135.2	1136.4	1134.0	1136.4	1136.4	1137.6	1136.4	1135.2	1136.4	1137.6	1134.0
7.5°	1167.8	1170.2	1169.0	1170.2	1171.4	1170.2	1170.2	1169.0	1171.4	1170.2	1167.8
10°	1210.0	1212.4	1211.2	1213.6	1214.8	1216.0	1216.0	1213.6	1212.4	1212.4	1211.2
12.5°	1260.7	1260.7	1260.7	1264.3	1266.7	1269.1	1267.9	1265.5	1261.9	1263.1	1258.3
15°	1316.2	1318.6	1318.6	1319.8	1325.8	1327.0	1325.8	1322.2	1321.0	1318.6	1316.2
17.5°	1377.7	1378.9	1380.1	1381.3	1388.6	1392.2	1387.3	1381.3	1381.3	1380.1	1380.1
20°	1441.6	1440.4	1442.8	1445.3	1450.1	1453.7	1452.5	1446.5	1441.6	1445.3	1444.0
22.5°	1500.7	1502.0	1503.2	1506.8	1515.2	1516.4	1512.8	1508.0	1502.0	1503.2	1503.2
25°	1556.2	1557.4	1559.9	1564.7	1574.3	1580.4	1575.5	1568.3	1559.9	1559.9	1561.1
27.5°	1612.9	1614.1	1615.4	1623.8	1635.9	1643.1	1639.5	1627.4	1617.8	1615.4	1611.7
30°	1675.7	1675.7	1678.1	1688.9	1704.6	1713.1	1708.2	1693.8	1679.3	1676.9	1676.9
32.5°	1755.3	1750.5	1754.1	1768.6	1785.5	1795.1	1791.5	1774.6	1756.5	1752.9	1752.9
35°	1850.6	1848.2	1850.6	1867.5	1888.0	1902.5	1894.0	1878.3	1859.0	1855.4	1853.0
37.5°	1964.0	1965.2	1972.4	1991.7	2019.5	2037.6	2029.1	2003.8	1980.9	1980.9	1980.9
40°	2107.6	2110.0	2124.5	2153.4	2193.2	2208.9	2199.2	2167.9	2141.3	2131.7	2134.1
42.5°	2303.0	2301.8	2324.7	2360.9	2408.0	2430.9	2415.2	2381.4	2342.8	2327.1	2328.3
45°	2533.4	2550.3	2574.4	2620.3	2679.4	2719.2	2691.5	2654.1	2596.2	2573.2	2572.0
47.5°	2812.1	2830.2	2860.3	2936.4	3007.5	3055.8	3034.1	2972.5	2889.3	2856.7	2844.7
50°	3129.4	3152.3	3190.9	3288.6	3390.0	3444.2	3405.6	3324.8	3235.5	3186.1	3174.0
52.5°	3486.5	3493.7	3551.6	3669.8	3795.3	3861.7	3818.2	3721.7	3607.1	3561.3	3527.5
55°	3882.2	3888.2	3954.5	4088.5	4230.8	4309.2	4253.7	4131.9	4025.7	3946.1	3953.3
57.5°	4248.9	4267.0	4364.7	4521.5	4689.2	4784.5	4724.2	4595.1	4484.1	4393.7	4404.5
60°	4641.0	4660.3	4762.8	4949.8	5176.6	5303.3	5224.9	5086.1	4971.5	4885.9	4875.0
62.5°	5057.2	5068.0	5180.2	5347.9	5637.5	5841.3	5766.5	5613.3	5479.4	5395.0	5386.5
65°	5442.0	5456.5	5551.8	5735.2	6033.2	6331.1	6288.9	6076.6	5895.6	5773.8	5756.9
67.5°	5582.0	5591.6	5725.5	5982.5	6325.1	6619.5	6631.5	6297.4	6034.4	5886.0	5882.4
70°	5417.9	5425.1	5596.4	5901.7	6338.4	6583.3	6539.8	6204.5	5881.1	5699.0	5680.9
72.5°	5049.9	5051.2	5208.0	5467.4	5905.3	6105.5	5921.0	5736.4	5402.2	5265.9	5229.7
75°	4380.4	4381.6	4490.2	4662.7	4975.2	5159.7	4949.8	4780.9	4584.3	4503.5	4461.2
77.5°	3012.4	3030.5	3142.6	3341.7	3684.3	3888.2	3613.1	3306.7	3187.3	3118.5	3077.5
80°	1450.1	1477.8	1606.9	1803.6	2161.9	2487.6	2148.6	1771.0	1538.1	1348.7	1382.5
82.5°	387.3	392.1	503.1	722.6	1007.3	1182.3	960.3	672.0	423.4	284.7	260.6
85°	102.5	108.6	152.0	208.7	317.3	404.1	308.8	196.6	149.6	111.0	101.3
87.5°	27.7	32.6	53.1	63.9	79.6	63.9	79.6	68.8	66.4	35.0	25.3
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)