

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: P399236

Luminaire Tested: **ARCH-L-PA3-110-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-110-827-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13860 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

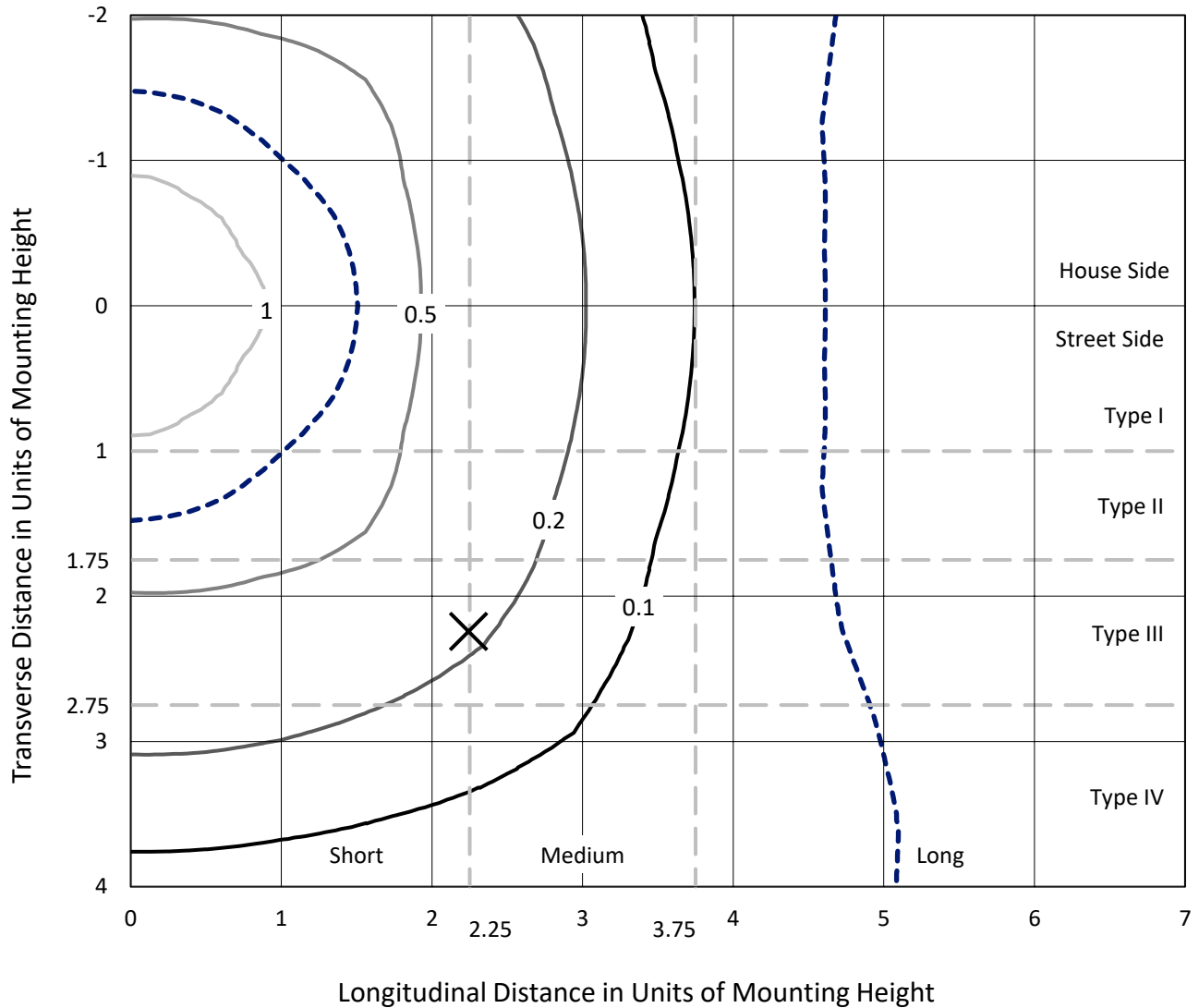
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

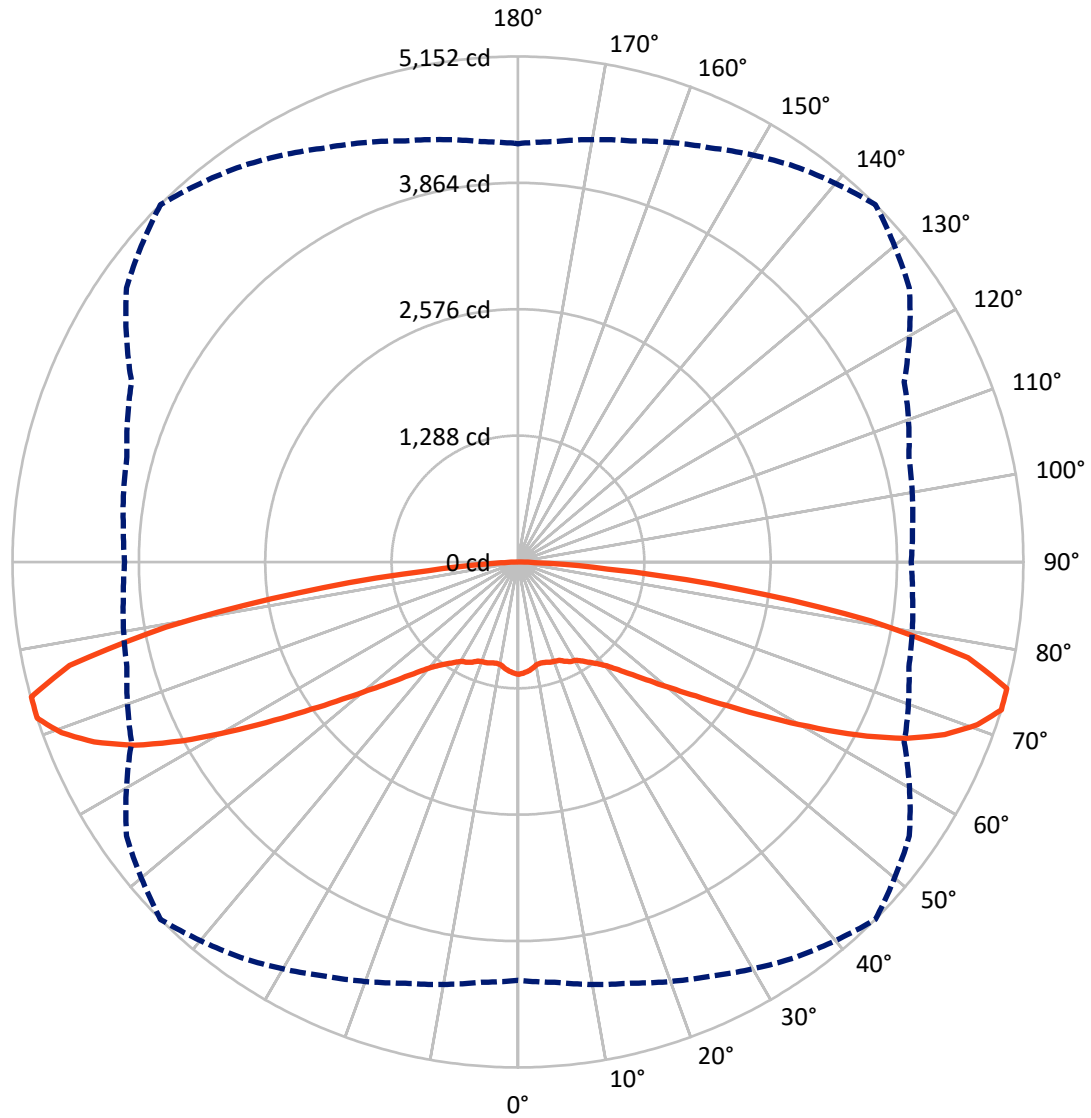
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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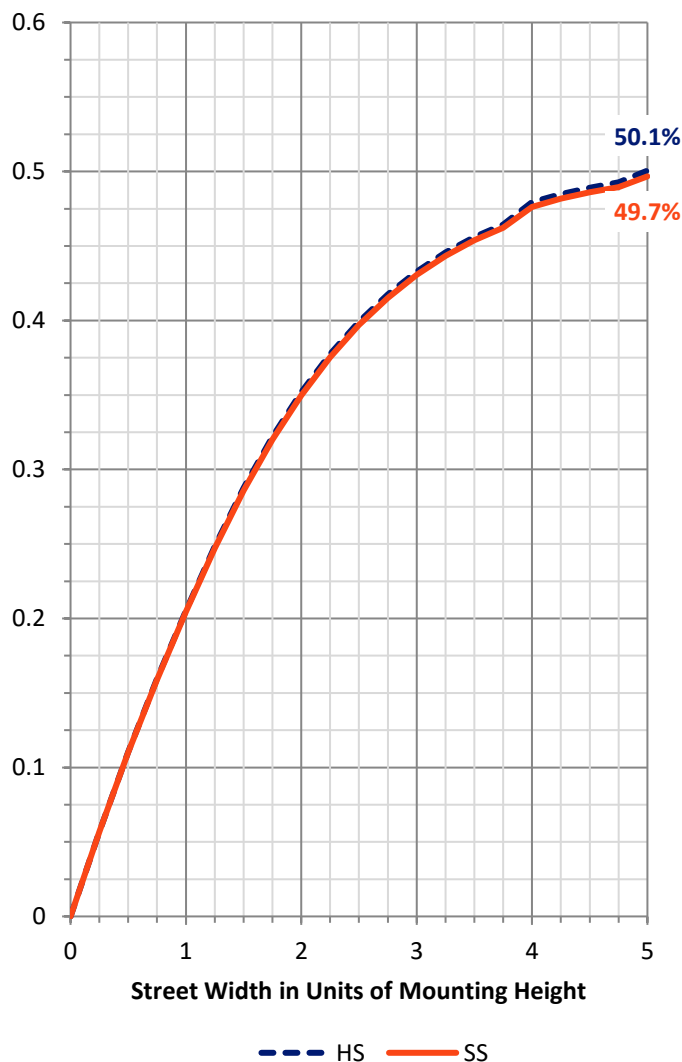
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6930.0	0.0	6930.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6930.0	0.0	6930.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13860.0	0.0	13860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	0.8
10°-20°	305.3	2.2
20°-30°	518.7	3.7
30°-40°	791.2	5.7
40°-50°	1302.8	9.4
50°-60°	2275.0	16.4
60°-70°	3814.2	27.5
70°-80°	4081.9	29.5
80°-90°	665.8	4.8
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°	13860.0	100.0
0°-180°	13860.0	100.0

Coefficient of Utilization

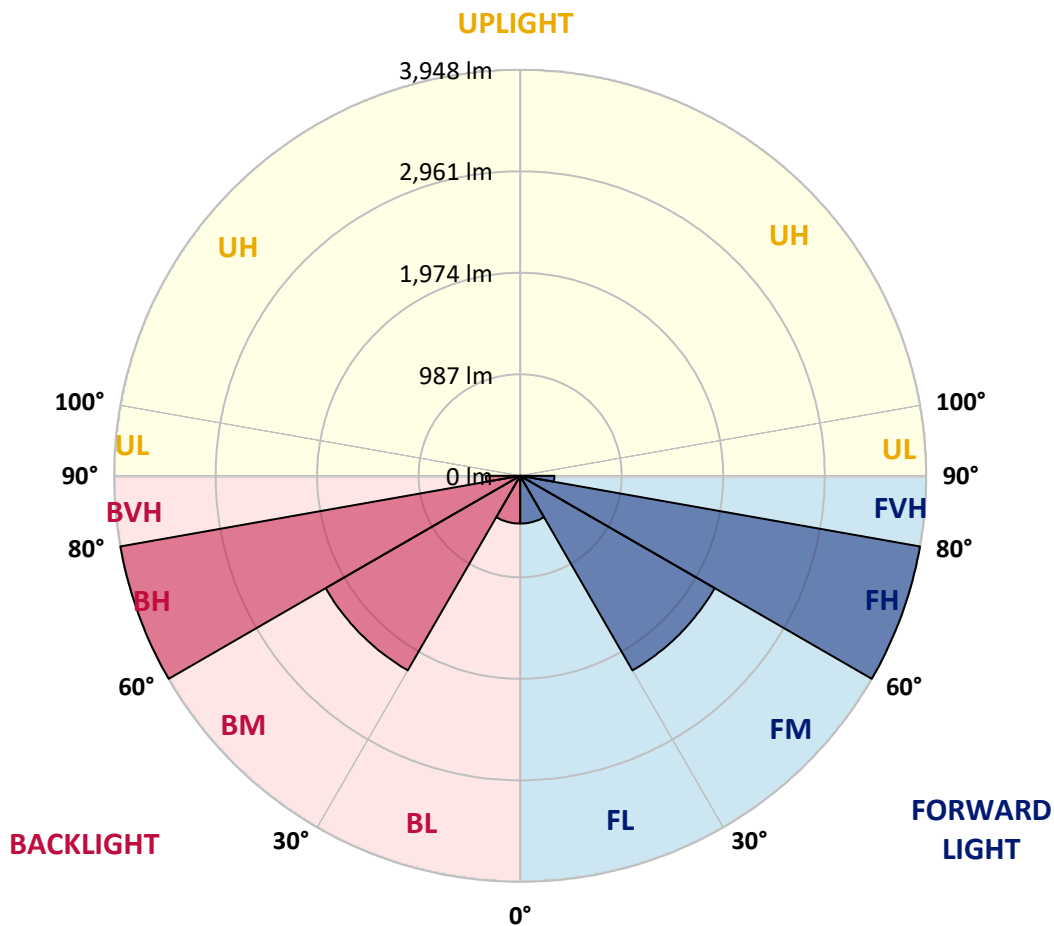


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.6	3.4			
FM (30°-60°)	2184.5	15.8			
FH (60°-80°)	3948.0	28.5			G2/5000
FVH (80°-90°)	332.9	2.4			G3/500
BL (0°-30°)	464.6	3.4	B1/500		
BM (30°-60°)	2184.5	15.8	B2/2500		
BH (60°-80°)	3948.0	28.5	B4/5000		G2/5000
BVH (80°-90°)	332.9	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
2.5°	1139.9	1139.9	1139.9	1138.1	1134.5	1132.8	1129.2	1131.0	1131.0	1131.0	1131.0
5°	1125.7	1125.7	1123.9	1122.2	1118.6	1116.8	1113.3	1116.8	1116.8	1116.8	1116.8
7.5°	1099.1	1100.9	1100.9	1099.1	1093.8	1092.1	1086.8	1088.5	1088.5	1090.3	1088.5
10°	1085.0	1085.0	1083.2	1074.4	1065.5	1062.0	1060.2	1065.5	1070.8	1076.1	1076.1
12.5°	1085.0	1085.0	1081.4	1067.3	1054.9	1054.9	1054.9	1062.0	1072.6	1083.2	1085.0
15°	1090.3	1090.3	1083.2	1067.3	1060.2	1062.0	1062.0	1069.1	1081.4	1095.6	1097.4
17.5°	1093.8	1093.8	1085.0	1069.1	1069.1	1074.4	1070.8	1076.1	1088.5	1104.5	1106.2
20°	1099.1	1099.1	1086.8	1074.4	1074.4	1079.7	1079.7	1085.0	1095.6	1111.5	1113.3
22.5°	1109.8	1108.0	1095.6	1085.0	1085.0	1088.5	1092.1	1099.1	1108.0	1122.2	1125.7
25°	1122.2	1122.2	1111.5	1109.8	1113.3	1122.2	1120.4	1118.6	1122.2	1134.5	1139.9
27.5°	1129.2	1129.2	1122.2	1127.5	1141.6	1148.7	1139.9	1132.8	1132.8	1145.2	1146.9
30°	1152.2	1150.5	1143.4	1146.9	1159.3	1162.9	1157.6	1148.7	1154.0	1168.2	1169.9
32.5°	1191.2	1191.2	1180.6	1180.6	1189.4	1203.6	1185.9	1180.6	1187.6	1203.6	1205.3
35°	1251.4	1251.4	1237.2	1230.1	1237.2	1256.7	1230.1	1228.3	1240.7	1258.4	1260.2
37.5°	1327.5	1327.5	1318.6	1300.9	1302.7	1315.1	1292.1	1290.3	1313.3	1332.8	1332.8
40°	1423.0	1428.4	1419.5	1398.3	1391.2	1393.0	1375.3	1377.0	1403.6	1426.6	1426.6
42.5°	1541.6	1545.2	1531.0	1515.1	1506.2	1500.9	1483.2	1486.8	1518.6	1548.7	1548.7
45°	1685.0	1686.8	1672.6	1653.1	1642.5	1639.0	1621.3	1630.1	1665.5	1697.4	1695.6
47.5°	1846.1	1847.8	1833.7	1814.2	1807.1	1812.4	1794.7	1794.7	1826.6	1853.1	1849.6
50°	2028.4	2031.9	2016.0	2007.1	2001.8	2016.0	1994.7	1975.3	1996.5	2023.1	2019.5
52.5°	2230.1	2239.0	2228.4	2231.9	2251.4	2269.1	2233.7	2191.2	2201.8	2219.5	2214.2
55°	2474.4	2485.0	2488.6	2500.9	2552.3	2582.4	2524.0	2453.2	2447.8	2449.6	2440.8
57.5°	2748.7	2755.8	2778.8	2807.1	2913.3	2961.1	2869.1	2747.0	2708.0	2685.0	2679.7
60°	3024.9	3037.2	3093.9	3152.3	3315.1	3401.9	3260.3	3054.9	2971.8	2929.3	2920.4
62.5°	3302.7	3327.5	3419.6	3518.7	3755.8	3885.0	3667.3	3370.0	3249.6	3196.5	3182.4
65°	3624.9	3655.0	3766.5	3892.1	4155.9	4338.2	4074.4	3695.7	3566.5	3495.7	3478.0
67.5°	4001.9	4033.7	4124.0	4263.8	4513.4	4692.1	4458.5	4028.4	3860.3	3770.0	3755.8
70°	4311.6	4339.9	4437.3	4578.9	4764.7	4968.3	4745.2	4293.9	4141.7	4078.0	4069.1
72.5°	4263.8	4301.0	4444.4	4656.7	4922.2	5152.3	4870.9	4345.2	4125.8	4037.3	4008.9
75°	3724.0	3764.7	3934.6	4318.7	4803.7	5147.0	4688.6	4003.6	3745.2	3670.9	3656.7
77.5°	2465.5	2504.5	2791.2	3396.5	4194.8	4690.4	4138.2	3354.1	2938.1	2759.4	2748.7
80°	996.5	1046.0	1320.4	1962.9	2973.5	3646.1	3069.1	2147.0	1447.8	1168.2	1111.5
82.5°	231.9	276.1	401.8	723.9	1522.2	2270.9	1654.9	801.8	465.5	331.0	297.4
85°	97.3	99.1	171.7	235.4	476.1	916.8	541.6	292.0	237.2	173.5	169.9
87.5°	37.2	38.9	83.2	99.1	152.2	173.5	184.1	150.4	139.8	86.7	83.2
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)