

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: P399173

Luminaire Tested: **ARCH-L-PA3-100-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399173
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-PA3-100-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13707 lumens
Efficiency: N/A
Efficacy: 134.4 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

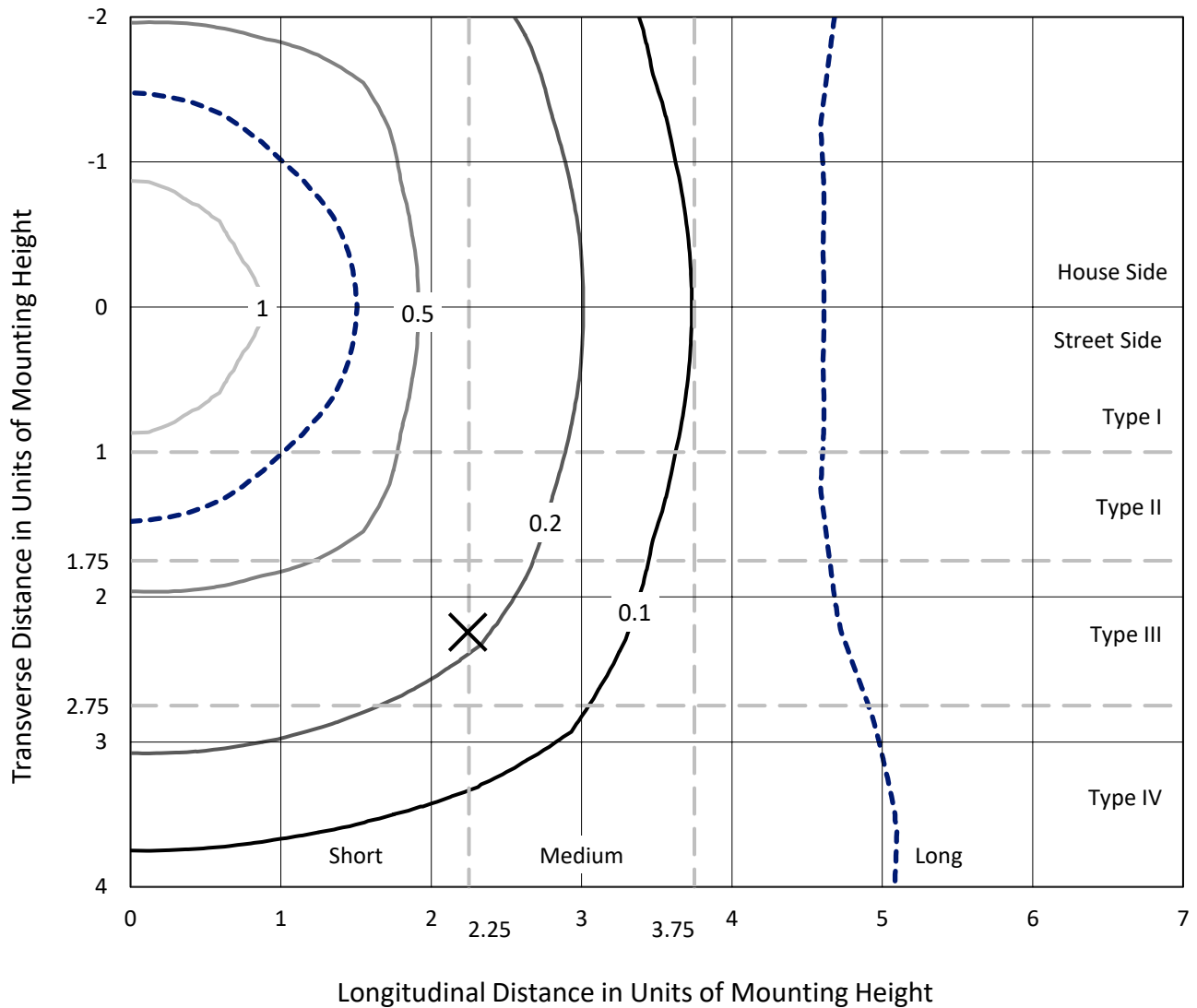
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

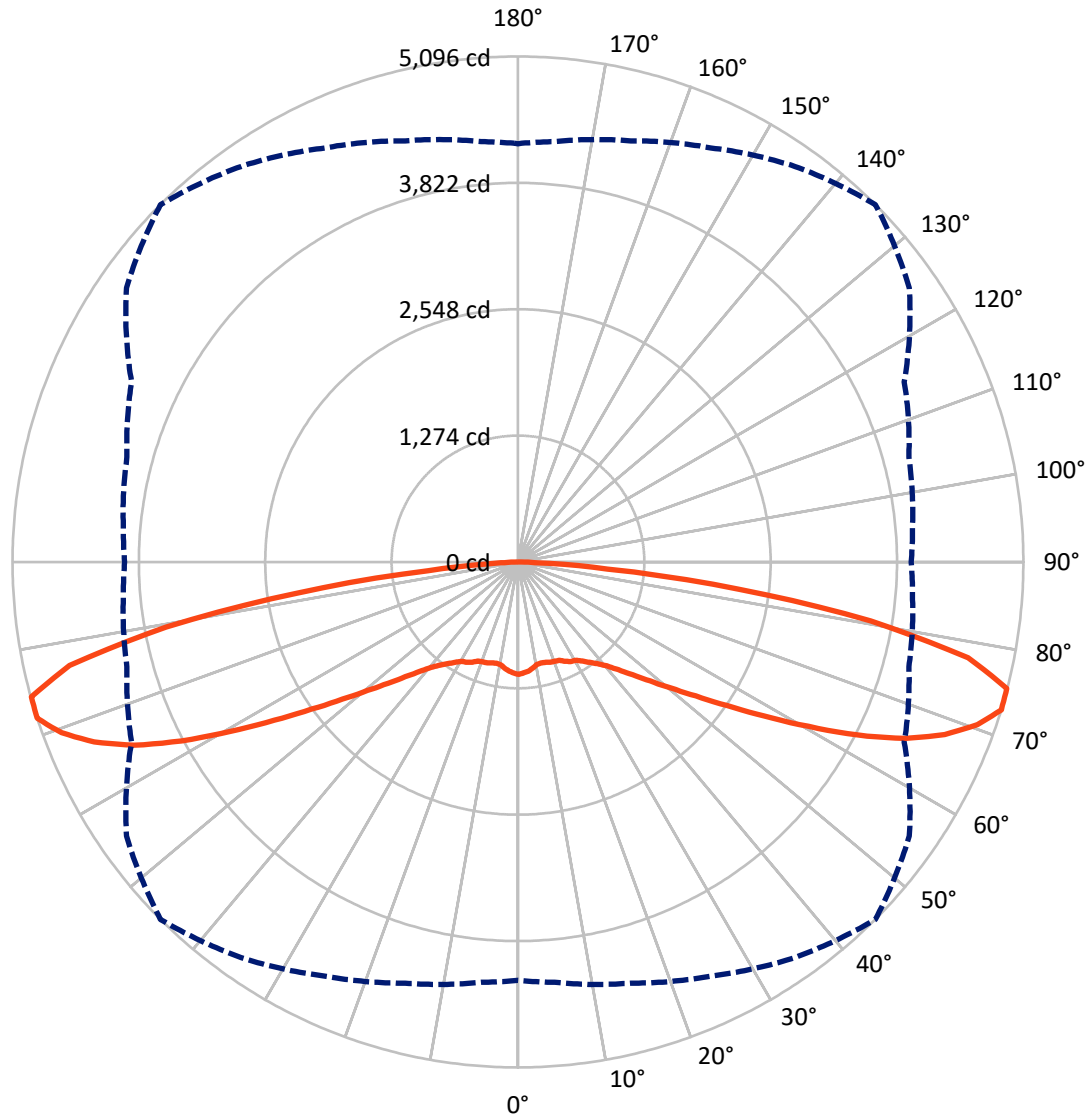
✕ Max cd
 - - - 1/2 Max cd



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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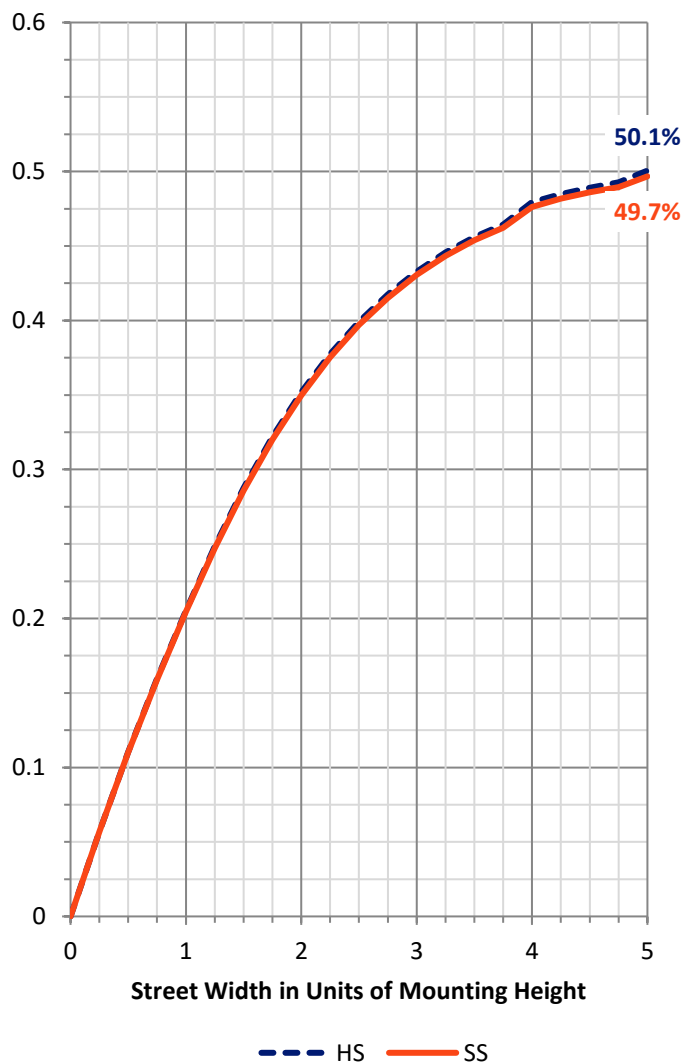
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6853.5	0.0	6853.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6853.5	0.0	6853.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13707.0	0.0	13707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	0.8
10°-20°	301.9	2.2
20°-30°	513.0	3.7
30°-40°	782.5	5.7
40°-50°	1288.4	9.4
50°-60°	2249.9	16.4
60°-70°	3772.1	27.5
70°-80°	4036.9	29.5
80°-90°	658.4	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°	13707.0	100.0
0°-180°	13707.0	100.0

Coefficient of Utilization

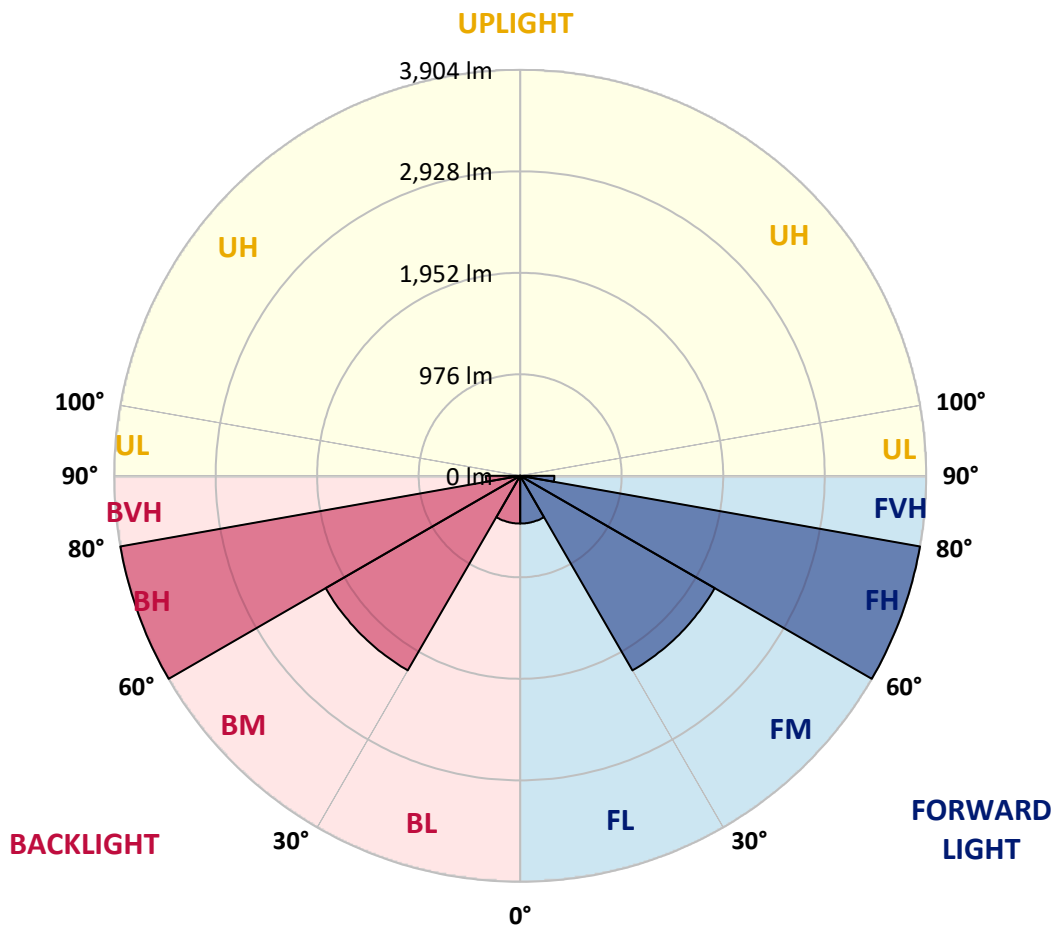


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.5	3.4			
FM (30°-60°)	2160.4	15.8			
FH (60°-80°)	3904.5	28.5			G2/5000
FVH (80°-90°)	329.2	2.4			G3/500
BL (0°-30°)	459.5	3.4	B1/500		
BM (30°-60°)	2160.4	15.8	B2/2500		
BH (60°-80°)	3904.5	28.5	B4/5000		G2/5000
BVH (80°-90°)	329.2	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°	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3
2.5°	1127.3	1127.3	1127.3	1125.5	1122.0	1120.3	1116.8	1118.5	1118.5	1118.5	1118.5
5°	1113.3	1113.3	1111.5	1109.8	1106.3	1104.5	1101.0	1104.5	1104.5	1104.5	1104.5
7.5°	1087.0	1088.8	1088.8	1087.0	1081.8	1080.0	1074.8	1076.5	1076.5	1078.3	1076.5
10°	1073.0	1073.0	1071.3	1062.5	1053.8	1050.2	1048.5	1053.8	1059.0	1064.3	1064.3
12.5°	1073.0	1073.0	1069.5	1055.5	1043.2	1043.2	1043.2	1050.2	1060.8	1071.3	1073.0
15°	1078.3	1078.3	1071.3	1055.5	1048.5	1050.2	1050.2	1057.3	1069.5	1083.5	1085.3
17.5°	1081.8	1081.8	1073.0	1057.3	1057.3	1062.5	1059.0	1064.3	1076.5	1092.3	1094.0
20°	1087.0	1087.0	1074.8	1062.5	1062.5	1067.8	1067.8	1073.0	1083.5	1099.3	1101.0
22.5°	1097.5	1095.8	1083.5	1073.0	1073.0	1076.5	1080.0	1087.0	1095.8	1109.8	1113.3
25°	1109.8	1109.8	1099.3	1097.5	1101.0	1109.8	1108.0	1106.3	1109.8	1122.0	1127.3
27.5°	1116.8	1116.8	1109.8	1115.0	1129.0	1136.0	1127.3	1120.3	1120.3	1132.5	1134.3
30°	1139.5	1137.8	1130.8	1134.3	1146.5	1150.0	1144.8	1136.0	1141.3	1155.3	1157.0
32.5°	1178.0	1178.0	1167.5	1167.5	1176.3	1190.3	1172.8	1167.5	1174.5	1190.3	1192.0
35°	1237.5	1237.5	1223.5	1216.5	1223.5	1242.8	1216.5	1214.8	1227.0	1244.5	1246.3
37.5°	1312.8	1312.8	1304.1	1286.6	1288.3	1300.6	1277.8	1276.1	1298.8	1318.1	1318.1
40°	1407.3	1412.6	1403.8	1382.8	1375.8	1377.6	1360.1	1361.8	1388.1	1410.8	1410.8
42.5°	1524.6	1528.1	1514.1	1498.4	1489.6	1484.4	1466.8	1470.3	1501.9	1531.6	1531.6
45°	1666.4	1668.1	1654.1	1634.9	1624.4	1620.9	1603.4	1612.1	1647.1	1678.6	1676.9
47.5°	1825.7	1827.4	1813.4	1794.2	1787.2	1792.4	1774.9	1774.9	1806.4	1832.7	1829.2
50°	2006.0	2009.5	1993.7	1985.0	1979.7	1993.7	1972.7	1953.5	1974.5	2000.7	1997.2
52.5°	2205.5	2214.3	2203.8	2207.3	2226.5	2244.0	2209.0	2167.0	2177.5	2195.0	2189.8
55°	2447.1	2457.6	2461.1	2473.3	2524.1	2553.9	2496.1	2426.1	2420.8	2422.6	2413.8
57.5°	2718.4	2725.4	2748.2	2776.2	2881.2	2928.4	2837.4	2716.6	2678.1	2655.4	2650.1
60°	2991.5	3003.7	3059.7	3117.5	3278.5	3364.3	3224.3	3021.2	2938.9	2896.9	2888.2
62.5°	3266.3	3290.8	3381.8	3479.8	3714.4	3842.2	3626.9	3332.8	3213.8	3161.3	3147.2
65°	3584.9	3614.6	3724.9	3849.2	4110.0	4290.3	4029.5	3654.9	3527.1	3457.1	3439.6
67.5°	3957.7	3989.2	4078.5	4216.8	4463.6	4640.4	4409.3	3983.9	3817.7	3728.4	3714.4
70°	4264.0	4292.0	4388.3	4528.3	4712.1	4913.4	4692.9	4246.5	4096.0	4033.0	4024.2
72.5°	4216.8	4253.5	4395.3	4605.3	4867.9	5095.5	4817.1	4297.3	4080.2	3992.7	3964.7
75°	3682.9	3723.1	3891.2	4271.0	4750.6	5090.2	4636.9	3959.4	3703.9	3630.4	3616.4
77.5°	2438.3	2476.8	2760.4	3359.0	4148.5	4638.6	4092.5	3317.0	2905.7	2728.9	2718.4
80°	985.5	1034.5	1305.8	1941.2	2940.7	3605.9	3035.2	2123.3	1431.8	1155.3	1099.3
82.5°	229.3	273.1	397.3	715.9	1505.4	2245.8	1636.6	792.9	460.4	327.3	294.1
85°	96.3	98.0	169.8	232.8	470.9	906.7	535.6	288.8	234.6	171.5	168.0
87.5°	36.8	38.5	82.3	98.0	150.5	171.5	182.0	148.8	138.3	85.8	82.3
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)