

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: P400541

Luminaire Tested: **ARCH-L-PA3-90-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400541  
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-PA3-90-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12729 lumens  
Efficiency: N/A  
Efficacy: 136.9 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

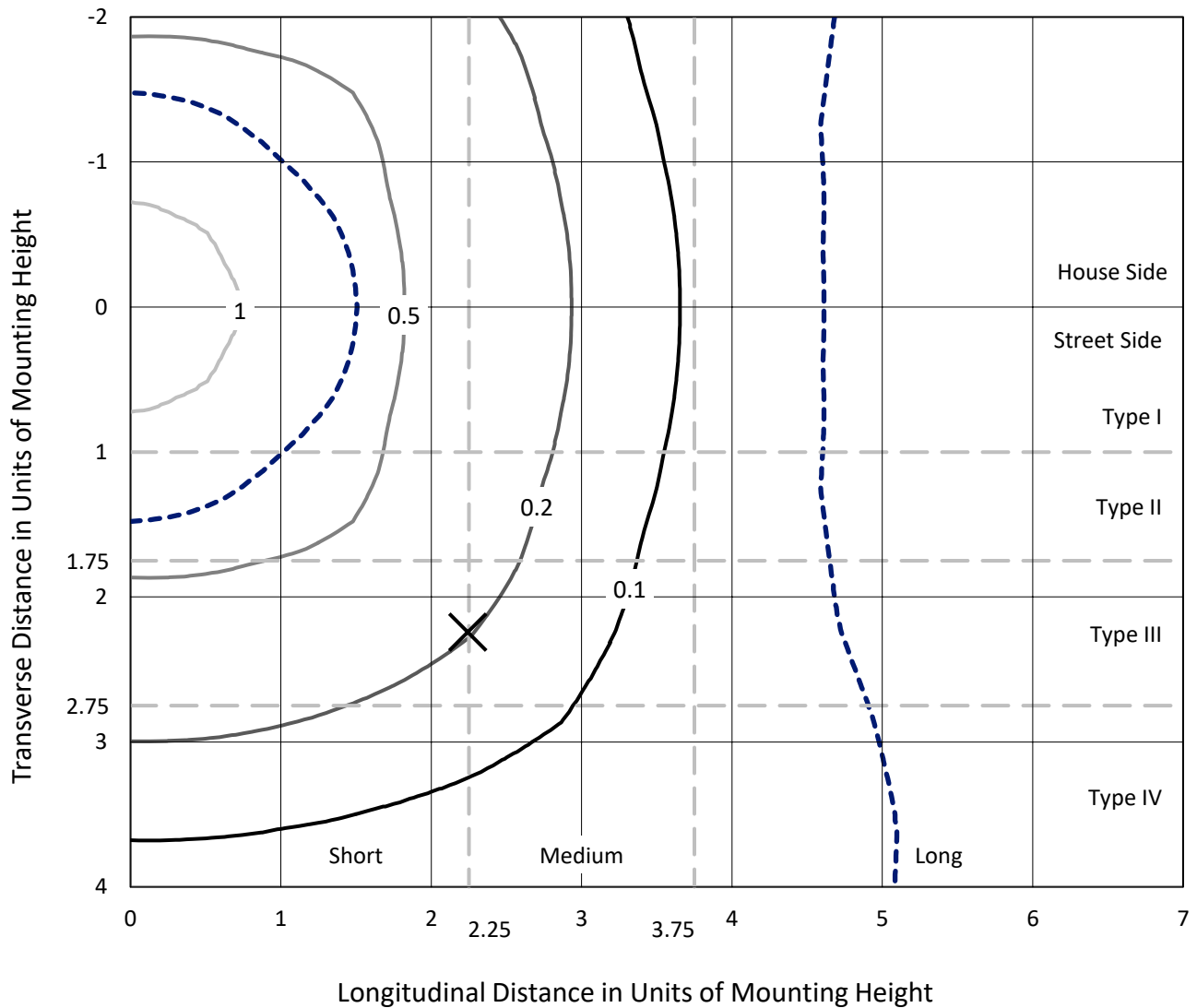
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

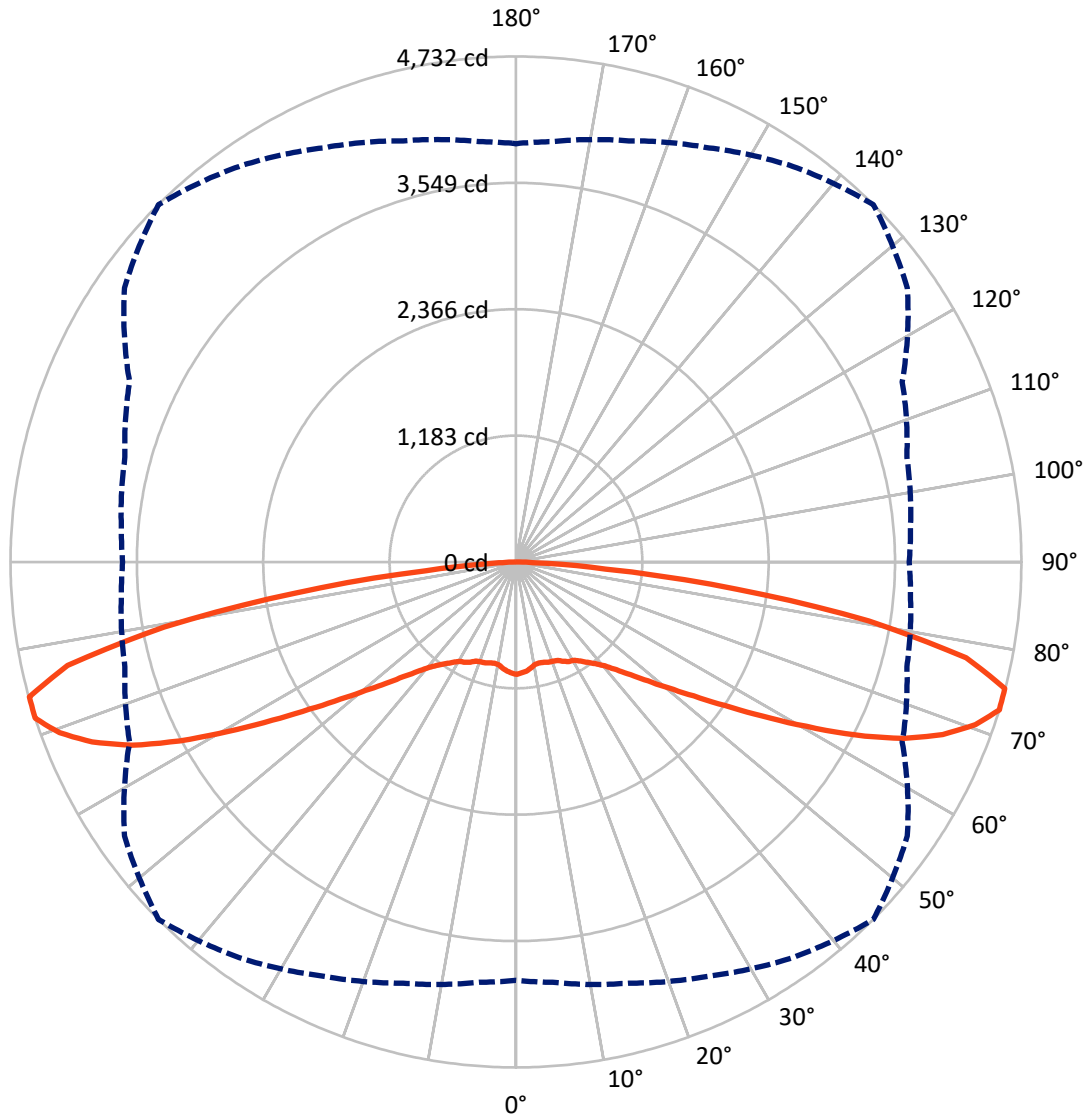
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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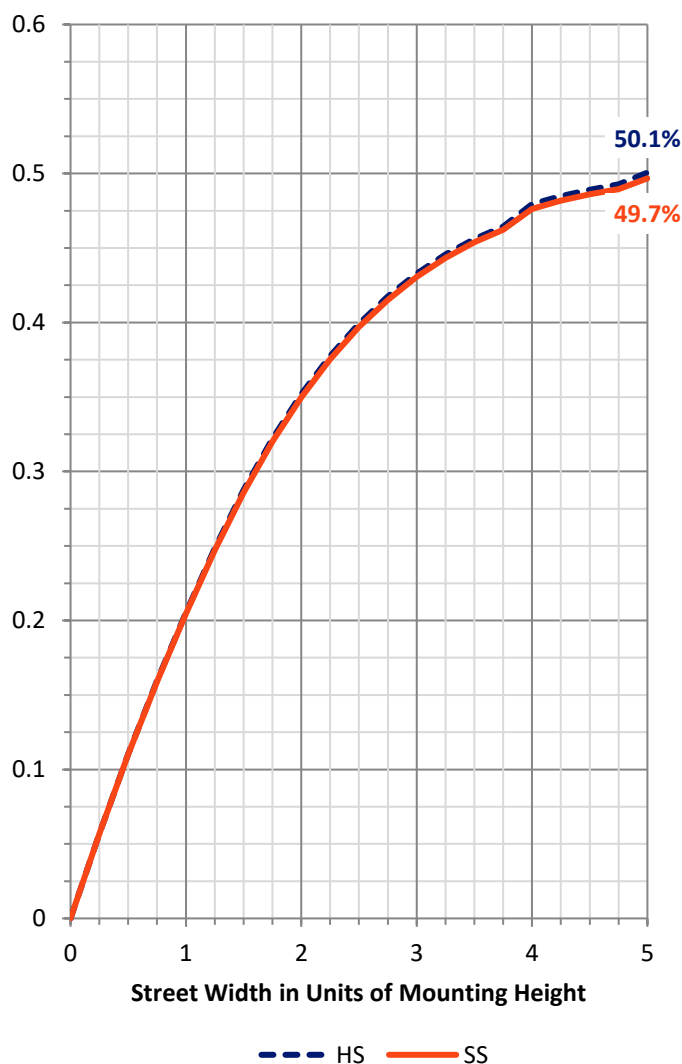
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6364.5	0.0	6364.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6364.5	0.0	6364.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12729.0	0.0	12729.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.6	0.8
10°-20°	280.4	2.2
20°-30°	476.4	3.7
30°-40°	726.6	5.7
40°-50°	1196.5	9.4
50°-60°	2089.4	16.4
60°-70°	3502.9	27.5
70°-80°	3748.8	29.5
80°-90°	611.4	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°	12729.0	100.0
0°-180°	12729.0	100.0

**Coefficient of Utilization**



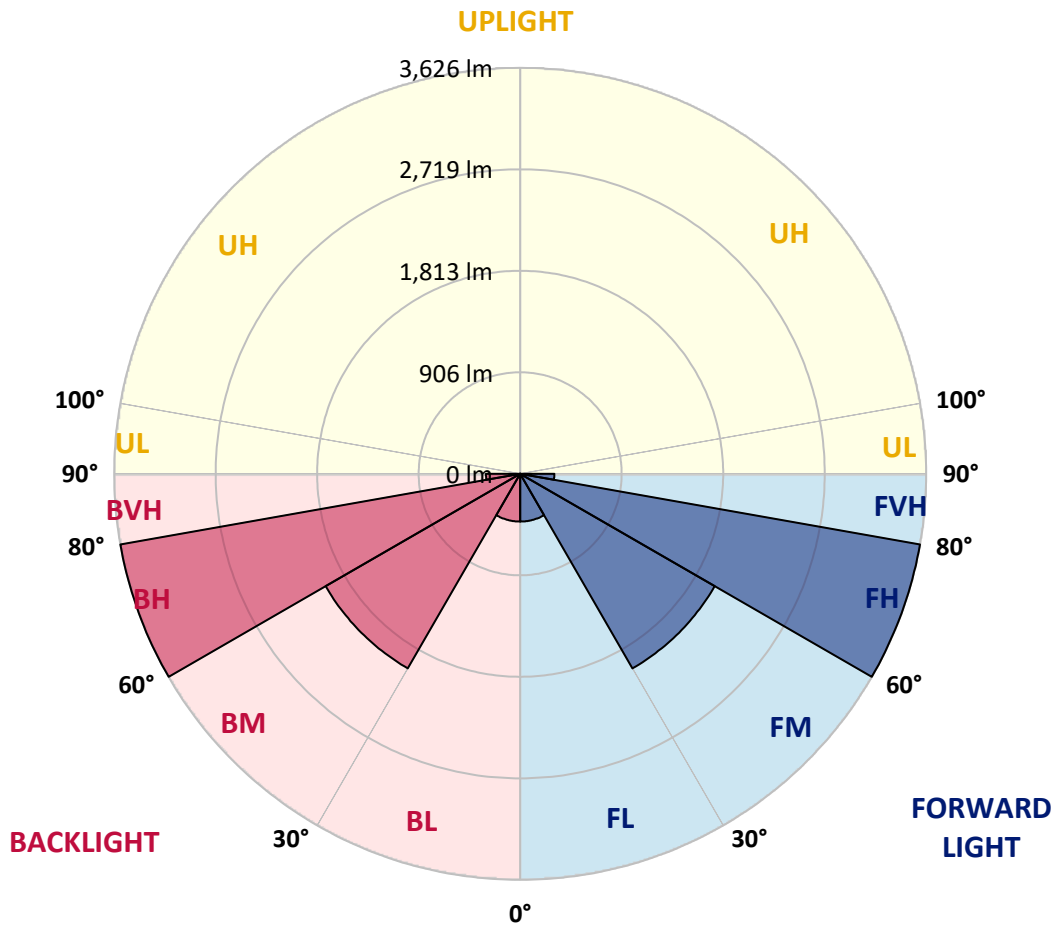
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.7	3.4			
FM (30°-60°)	2006.2	15.8			
FH (60°-80°)	3625.9	28.5			G2/5000
FVH (80°-90°)	305.7	2.4			G3/500
BL (0°-30°)	426.7	3.4	B1/500		
BM (30°-60°)	2006.2	15.8	B2/2500		
BH (60°-80°)	3625.9	28.5	B4/5000		G2/5000
BVH (80°-90°)	305.7	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°	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3
2.5°	1046.8	1046.8	1046.8	1045.2	1042.0	1040.3	1037.1	1038.7	1038.7	1038.7	1038.7
5°	1033.8	1033.8	1032.2	1030.6	1027.3	1025.7	1022.5	1025.7	1025.7	1025.7	1025.7
7.5°	1009.4	1011.1	1011.1	1009.4	1004.6	1002.9	998.1	999.7	999.7	1001.3	999.7
10°	996.4	996.4	994.8	986.7	978.6	975.3	973.7	978.6	983.4	988.3	988.3
12.5°	996.4	996.4	993.2	980.2	968.8	968.8	968.8	975.3	985.1	994.8	996.4
15°	1001.3	1001.3	994.8	980.2	973.7	975.3	975.3	981.8	993.2	1006.2	1007.8
17.5°	1004.6	1004.6	996.4	981.8	981.8	986.7	983.4	988.3	999.7	1014.3	1016.0
20°	1009.4	1009.4	998.1	986.7	986.7	991.6	991.6	996.4	1006.2	1020.8	1022.5
22.5°	1019.2	1017.6	1006.2	996.4	996.4	999.7	1002.9	1009.4	1017.6	1030.6	1033.8
25°	1030.6	1030.6	1020.8	1019.2	1022.5	1030.6	1029.0	1027.3	1030.6	1042.0	1046.8
27.5°	1037.1	1037.1	1030.6	1035.5	1048.5	1055.0	1046.8	1040.3	1040.3	1051.7	1053.3
30°	1058.2	1056.6	1050.1	1053.3	1064.7	1068.0	1063.1	1055.0	1059.8	1072.8	1074.5
32.5°	1094.0	1094.0	1084.2	1084.2	1092.4	1105.4	1089.1	1084.2	1090.7	1105.4	1107.0
35°	1149.2	1149.2	1136.2	1129.7	1136.2	1154.1	1129.7	1128.1	1139.5	1155.7	1157.4
37.5°	1219.1	1219.1	1211.0	1194.8	1196.4	1207.8	1186.6	1185.0	1206.1	1224.0	1224.0
40°	1306.9	1311.8	1303.7	1284.2	1277.7	1279.3	1263.0	1264.7	1289.0	1310.2	1310.2
42.5°	1415.8	1419.1	1406.1	1391.4	1383.3	1378.4	1362.2	1365.4	1394.7	1422.3	1422.3
45°	1547.5	1549.1	1536.1	1518.2	1508.5	1505.2	1489.0	1497.1	1529.6	1558.9	1557.3
47.5°	1695.4	1697.0	1684.0	1666.2	1659.7	1664.5	1648.3	1648.3	1677.5	1701.9	1698.7
50°	1862.8	1866.1	1851.5	1843.3	1838.5	1851.5	1832.0	1814.1	1833.6	1858.0	1854.7
52.5°	2048.2	2056.3	2046.5	2049.8	2067.7	2083.9	2051.4	2012.4	2022.2	2038.4	2033.5
55°	2272.5	2282.2	2285.5	2296.9	2344.0	2371.6	2318.0	2253.0	2248.1	2249.7	2241.6
57.5°	2524.4	2530.9	2552.1	2578.1	2675.6	2719.5	2635.0	2522.8	2487.1	2465.9	2461.0
60°	2778.0	2789.4	2841.4	2895.1	3044.6	3124.3	2994.2	2805.7	2729.3	2690.2	2682.1
62.5°	3033.2	3056.0	3140.5	3231.5	3449.4	3568.0	3368.1	3095.0	2984.5	2935.7	2922.7
65°	3329.1	3356.7	3459.1	3574.5	3816.7	3984.2	3742.0	3394.1	3275.4	3210.4	3194.2
67.5°	3675.3	3704.6	3787.5	3915.9	4145.1	4309.3	4094.7	3699.7	3545.3	3462.4	3449.4
70°	3959.8	3985.8	4075.2	4205.2	4375.9	4562.8	4358.0	3943.5	3803.7	3745.2	3737.1
72.5°	3915.9	3950.0	4081.7	4276.8	4520.6	4731.9	4473.4	3990.7	3789.1	3707.8	3681.8
75°	3420.1	3457.5	3613.5	3966.3	4411.7	4727.0	4306.0	3676.9	3439.6	3371.3	3358.3
77.5°	2264.4	2300.1	2563.4	3119.4	3852.5	4307.6	3800.5	3080.4	2698.4	2534.2	2524.4
80°	915.2	960.7	1212.6	1802.7	2730.9	3348.6	2818.7	1971.8	1329.7	1072.8	1020.8
82.5°	212.9	253.6	369.0	664.8	1397.9	2085.5	1519.9	736.4	427.5	304.0	273.1
85°	89.4	91.0	157.7	216.2	437.3	842.0	497.4	268.2	217.8	159.3	156.1
87.5°	34.1	35.8	76.4	91.0	139.8	159.3	169.1	138.2	128.4	79.7	76.4
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)