

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: P399317

Luminaire Tested: **ARCH-L-PA3-120-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399317  
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-PA3-120-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16149 lumens  
Efficiency: N/A  
Efficacy: 131.3 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

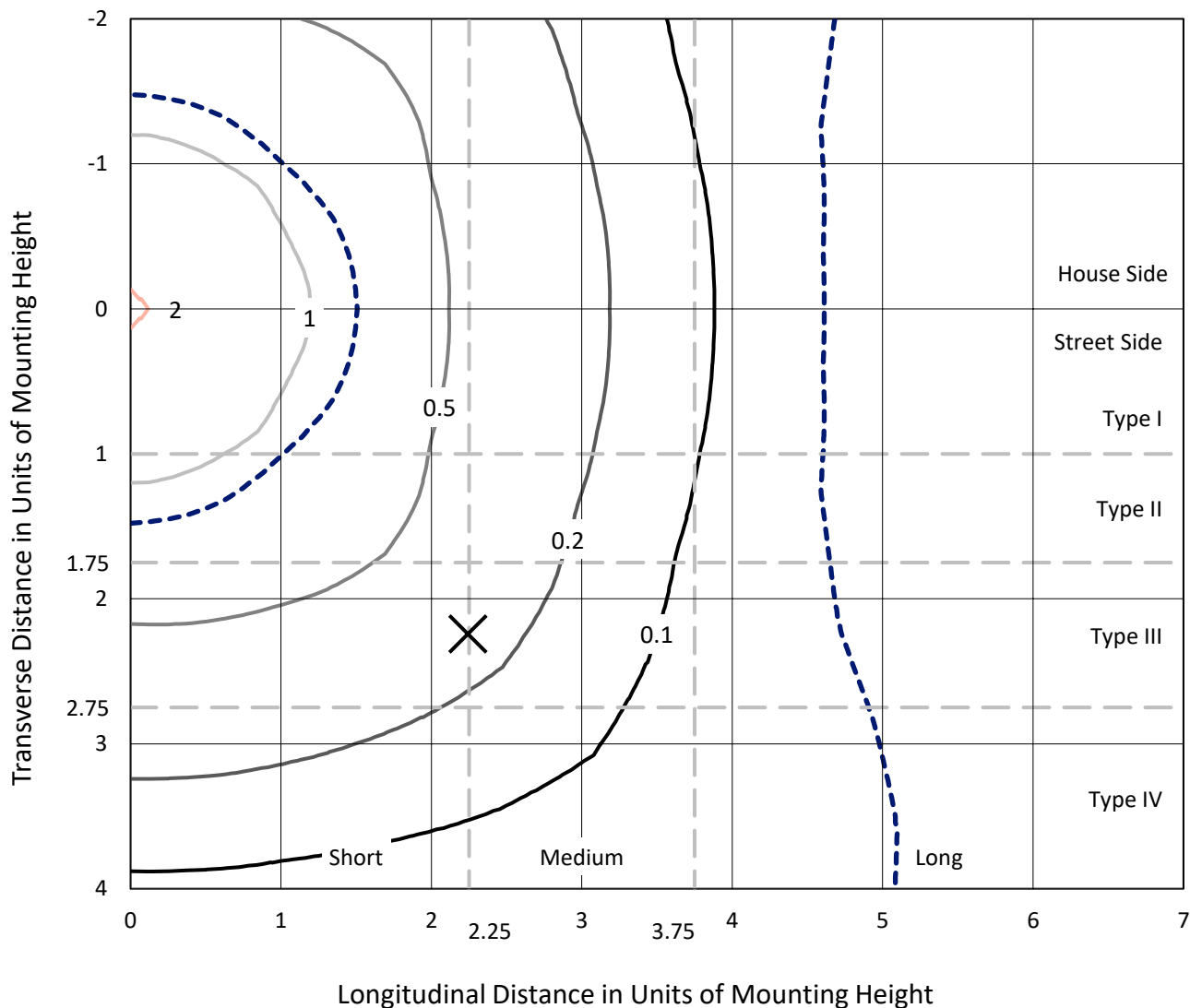
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

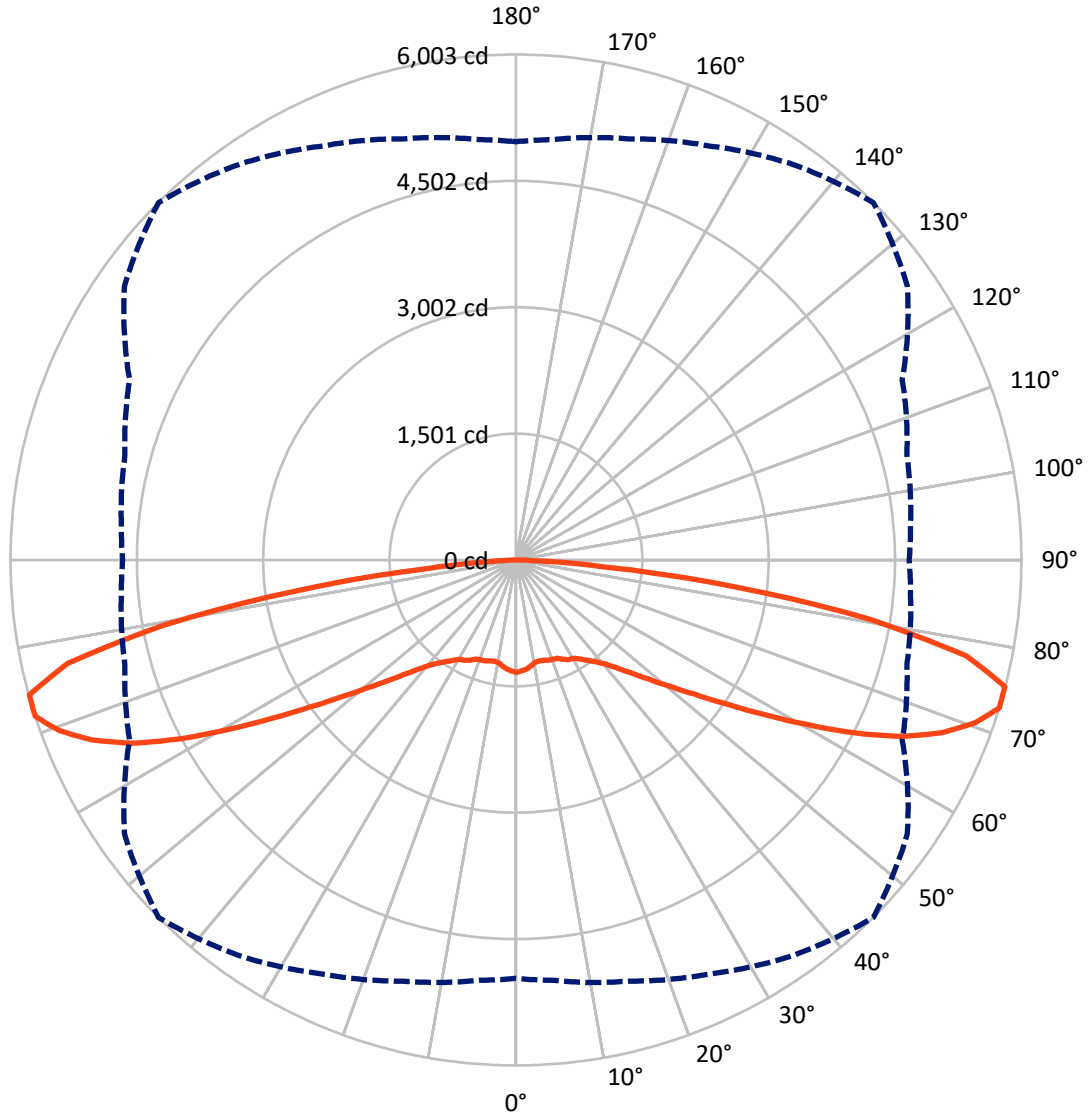
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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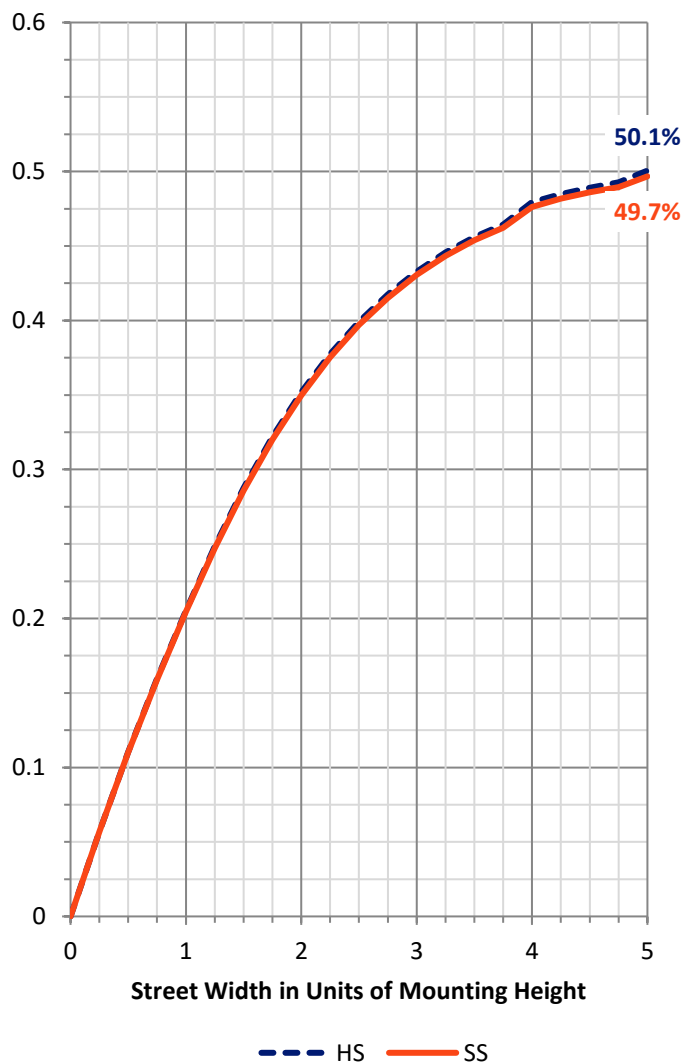
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8074.5	0.0	8074.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8074.5	0.0	8074.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16149.0	0.0	16149.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	0.8
10°-20°	355.7	2.2
20°-30°	604.4	3.7
30°-40°	921.9	5.7
40°-50°	1517.9	9.4
50°-60°	2650.8	16.4
60°-70°	4444.1	27.5
70°-80°	4756.1	29.5
80°-90°	775.7	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°	16149.0	100.0
0°-180°	16149.0	100.0



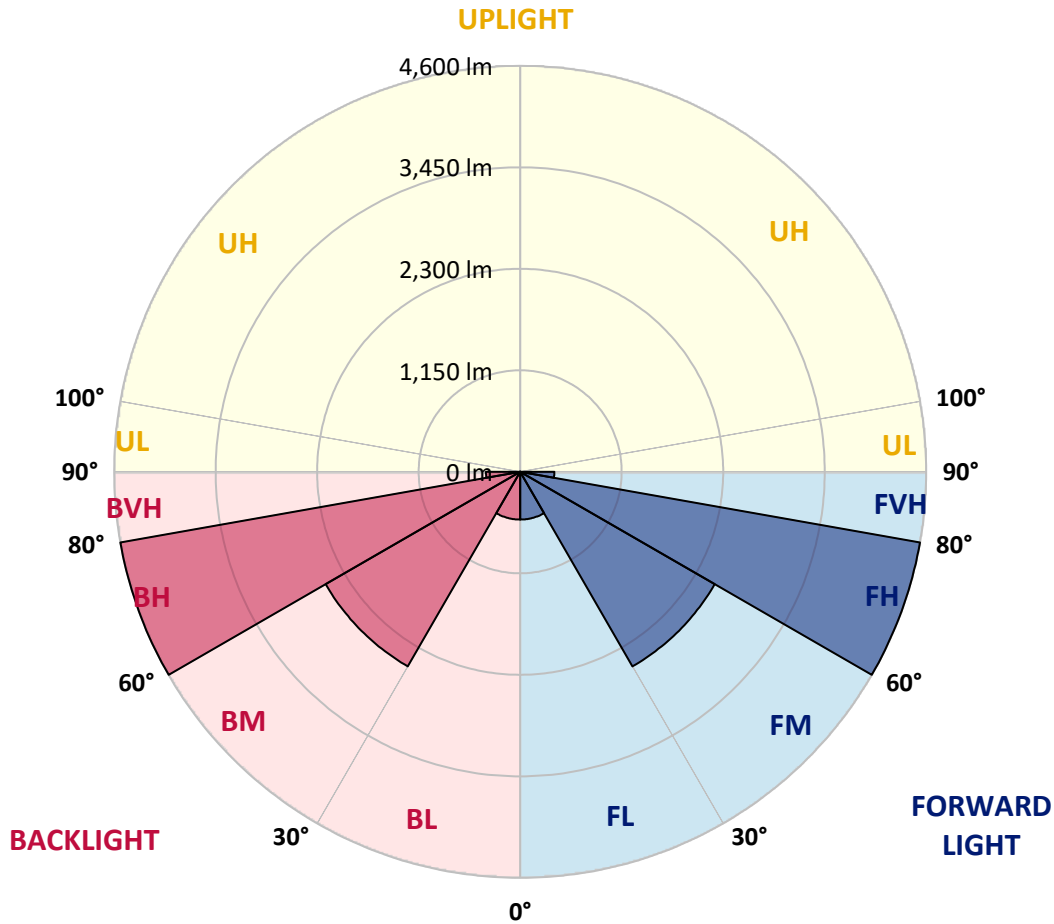
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.3	3.4			
FM (30°-60°)	2545.3	15.8			
FH (60°-80°)	4600.1	28.5			G2/5000
FVH (80°-90°)	387.9	2.4			G3/500
BL (0°-30°)	541.3	3.4	B2/1000		
BM (30°-60°)	2545.3	15.8	B3/5000		
BH (60°-80°)	4600.1	28.5	B4/5000		G2/5000
BVH (80°-90°)	387.9	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°	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3
2.5°	1328.1	1328.1	1328.1	1326.0	1321.9	1319.8	1315.7	1317.8	1317.8	1317.8	1317.8
5°	1311.6	1311.6	1309.5	1307.5	1303.4	1301.3	1297.2	1301.3	1301.3	1301.3	1301.3
7.5°	1280.7	1282.7	1282.7	1280.7	1274.5	1272.4	1266.2	1268.3	1268.3	1270.4	1268.3
10°	1264.2	1264.2	1262.1	1251.8	1241.5	1237.4	1235.3	1241.5	1247.7	1253.9	1253.9
12.5°	1264.2	1264.2	1260.0	1243.5	1229.1	1229.1	1229.1	1237.4	1249.7	1262.1	1264.2
15°	1270.4	1270.4	1262.1	1243.5	1235.3	1237.4	1237.4	1245.6	1260.0	1276.5	1278.6
17.5°	1274.5	1274.5	1264.2	1245.6	1245.6	1251.8	1247.7	1253.9	1268.3	1286.9	1288.9
20°	1280.7	1280.7	1266.2	1251.8	1251.8	1258.0	1258.0	1264.2	1276.5	1295.1	1297.2
22.5°	1293.0	1291.0	1276.5	1264.2	1264.2	1268.3	1272.4	1280.7	1291.0	1307.5	1311.6
25°	1307.5	1307.5	1295.1	1293.0	1297.2	1307.5	1305.4	1303.4	1307.5	1321.9	1328.1
27.5°	1315.7	1315.7	1307.5	1313.7	1330.2	1338.4	1328.1	1319.8	1319.8	1334.3	1336.3
30°	1342.5	1340.5	1332.2	1336.3	1350.8	1354.9	1348.7	1338.4	1344.6	1361.1	1363.2
32.5°	1387.9	1387.9	1375.5	1375.5	1385.8	1402.3	1381.7	1375.5	1383.8	1402.3	1404.4
35°	1458.0	1458.0	1441.5	1433.3	1441.5	1464.2	1433.3	1431.2	1445.6	1466.3	1468.3
37.5°	1546.7	1546.7	1536.4	1515.8	1517.8	1532.3	1505.5	1503.4	1530.2	1552.9	1552.9
40°	1658.1	1664.2	1653.9	1629.2	1620.9	1623.0	1602.4	1604.4	1635.4	1662.2	1662.2
42.5°	1796.2	1800.4	1783.9	1765.3	1755.0	1748.8	1728.2	1732.3	1769.4	1804.5	1804.5
45°	1963.3	1965.3	1948.8	1926.2	1913.8	1909.7	1889.0	1899.3	1940.6	1977.7	1975.6
47.5°	2150.9	2153.0	2136.5	2113.8	2105.6	2111.8	2091.1	2091.1	2128.3	2159.2	2155.1
50°	2363.4	2367.5	2348.9	2338.6	2332.4	2348.9	2324.2	2301.5	2326.2	2357.2	2353.0
52.5°	2598.5	2608.8	2596.4	2600.5	2623.2	2643.8	2602.6	2553.1	2565.5	2586.1	2579.9
55°	2883.0	2895.4	2899.5	2914.0	2973.8	3008.8	2940.8	2858.3	2852.1	2854.2	2843.9
57.5°	3202.7	3210.9	3237.8	3270.8	3394.5	3450.2	3342.9	3200.6	3155.3	3128.5	3122.3
60°	3524.4	3538.8	3604.8	3672.9	3862.6	3963.7	3798.7	3559.5	3462.5	3413.0	3402.7
62.5°	3848.2	3877.1	3984.3	4099.8	4376.1	4526.7	4273.0	3926.6	3786.3	3724.5	3708.0
65°	4223.5	4258.6	4388.5	4534.9	4842.2	5054.6	4747.3	4306.0	4155.5	4073.0	4052.4
67.5°	4662.8	4699.9	4805.1	4968.0	5258.8	5467.1	5194.8	4693.7	4497.8	4392.6	4376.1
70°	5023.7	5056.7	5170.1	5335.1	5551.6	5788.8	5528.9	5003.1	4825.7	4751.5	4741.1
72.5°	4968.0	5011.3	5178.3	5425.8	5735.2	6003.3	5675.4	5062.9	4807.1	4704.0	4671.0
75°	4339.0	4386.4	4584.4	5031.9	5597.0	5997.1	5462.9	4664.8	4363.8	4277.1	4260.6
77.5°	2872.7	2918.1	3252.2	3957.5	4887.6	5465.0	4821.6	3908.0	3423.4	3215.1	3202.7
80°	1161.1	1218.8	1538.4	2287.1	3464.6	4248.3	3576.0	2501.5	1686.9	1361.1	1295.1
82.5°	270.2	321.7	468.1	843.5	1773.5	2645.9	1928.2	934.2	542.4	385.6	346.5
85°	113.4	115.5	200.0	274.3	554.7	1068.3	631.1	340.3	276.3	202.1	198.0
87.5°	43.3	45.4	96.9	115.5	177.4	202.1	214.5	175.3	162.9	101.1	96.9
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)