

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: P399245

Luminaire Tested: **ARCH-L-PA3-110-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399245  
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-PA3-110-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 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: 14982 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

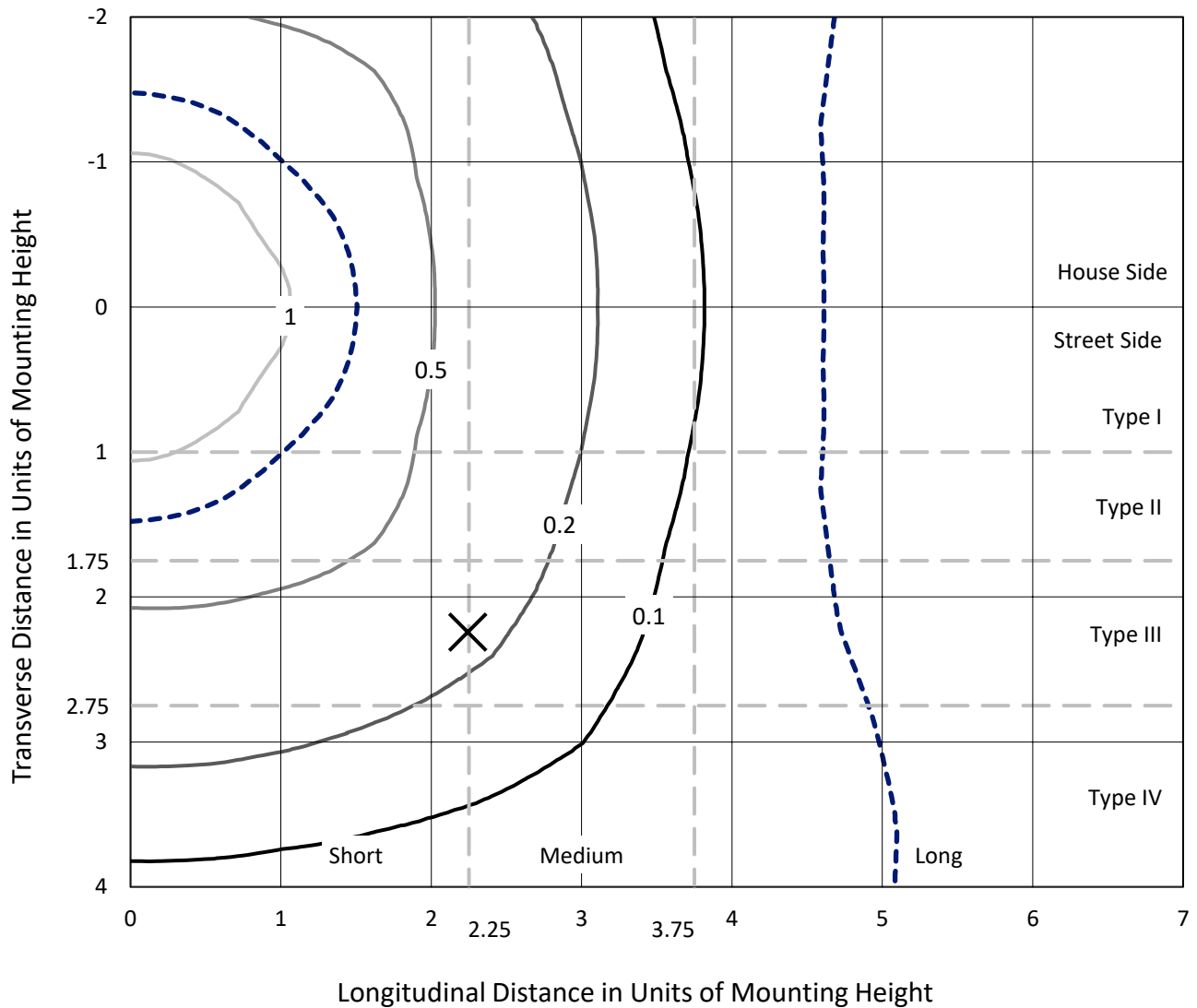
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

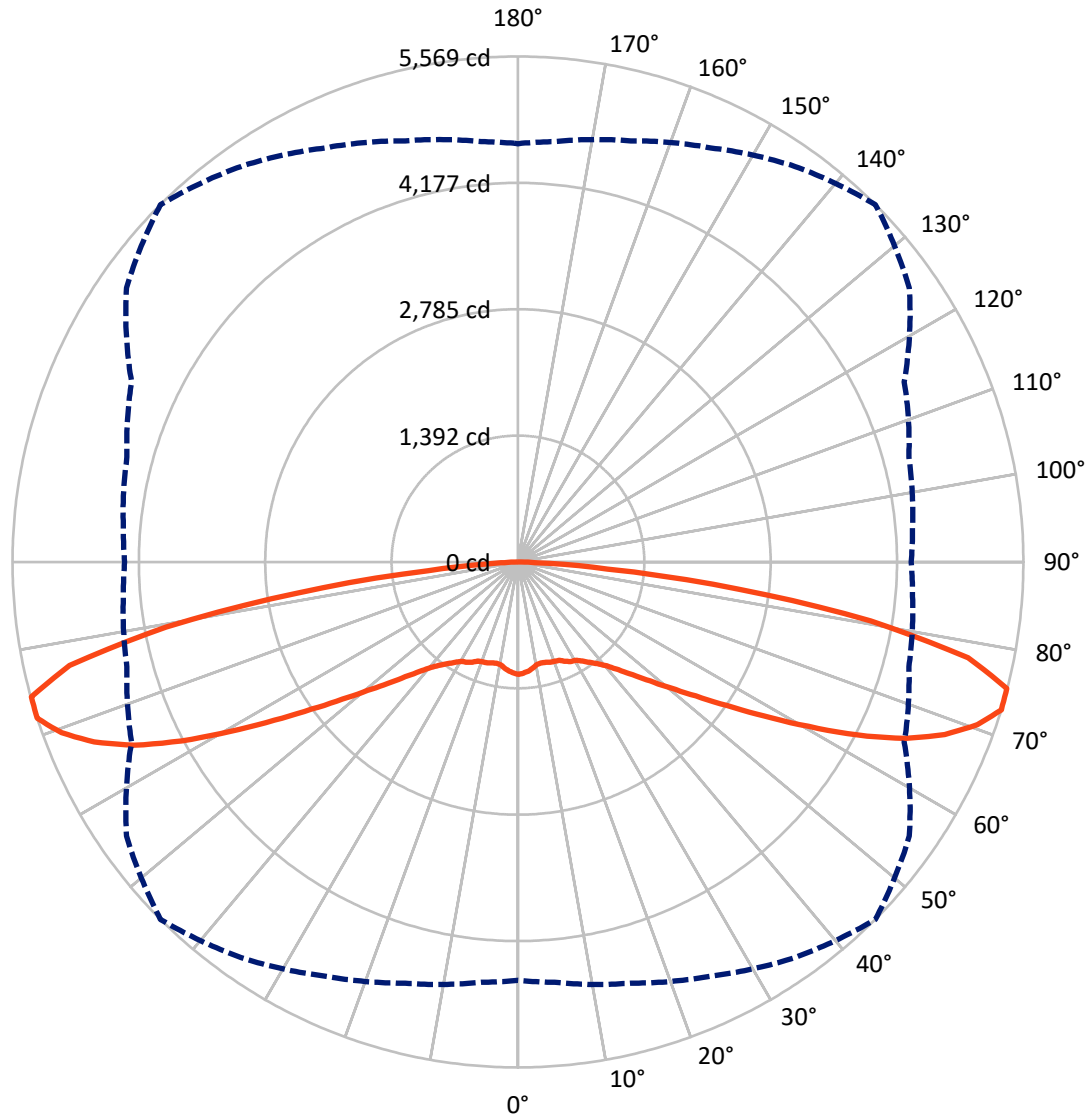
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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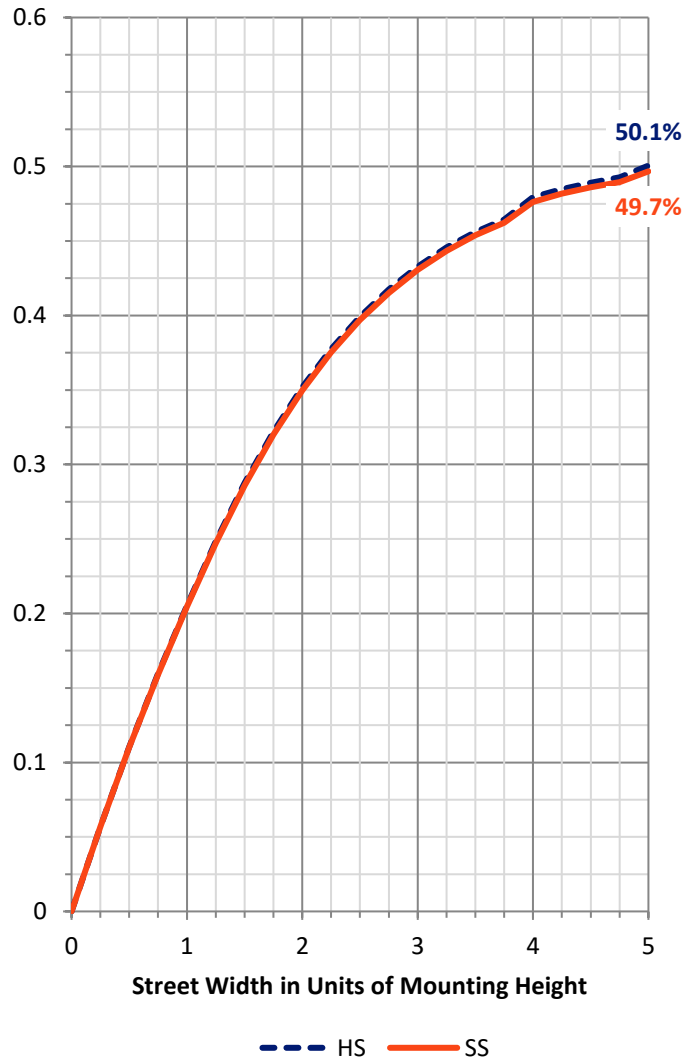
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7491.0	0.0	7491.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7491.0	0.0	7491.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14982.0	0.0	14982.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.7	0.8
10°-20°	330.0	2.2
20°-30°	560.7	3.7
30°-40°	855.2	5.7
40°-50°	1408.2	9.4
50°-60°	2459.2	16.4
60°-70°	4122.9	27.5
70°-80°	4412.4	29.5
80°-90°	719.7	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°	14982.0	100.0
0°-180°	14982.0	100.0

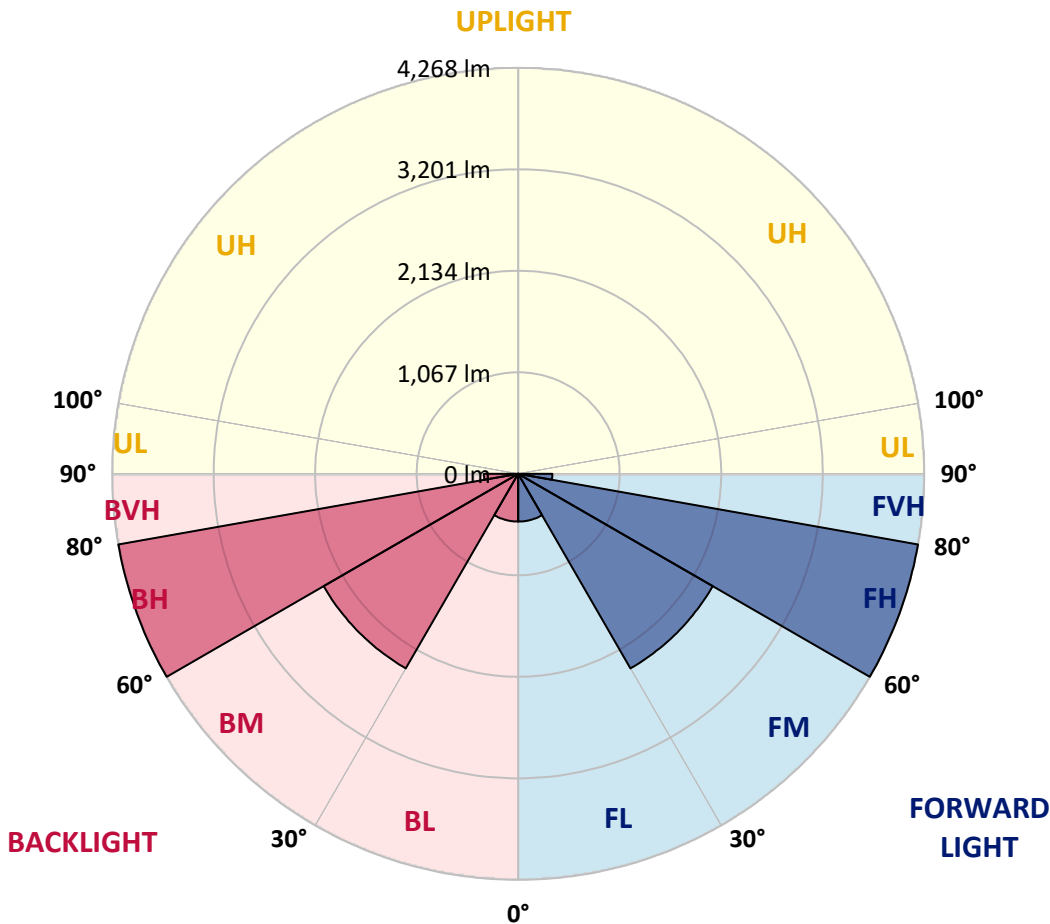


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.2	3.4			
FM (30°-60°)	2361.3	15.8			
FH (60°-80°)	4267.6	28.5			G2/5000
FVH (80°-90°)	359.8	2.4			G3/500
BL (0°-30°)	502.2	3.4	B2/1000		
BM (30°-60°)	2361.3	15.8	B2/2500		
BH (60°-80°)	4267.6	28.5	B4/5000		G2/5000
BVH (80°-90°)	359.8	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°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1232.1	1232.1	1232.1	1230.2	1226.4	1224.5	1220.6	1222.6	1222.6	1222.6	1222.6
5°	1216.8	1216.8	1214.9	1213.0	1209.2	1207.3	1203.4	1207.3	1207.3	1207.3	1207.3
7.5°	1188.1	1190.0	1190.0	1188.1	1182.4	1180.5	1174.7	1176.6	1176.6	1178.6	1176.6
10°	1172.8	1172.8	1170.9	1161.3	1151.8	1147.9	1146.0	1151.8	1157.5	1163.2	1163.2
12.5°	1172.8	1172.8	1169.0	1153.7	1140.3	1140.3	1140.3	1147.9	1159.4	1170.9	1172.8
15°	1178.6	1178.6	1170.9	1153.7	1146.0	1147.9	1147.9	1155.6	1169.0	1184.3	1186.2
17.5°	1182.4	1182.4	1172.8	1155.6	1155.6	1161.3	1157.5	1163.2	1176.6	1193.9	1195.8
20°	1188.1	1188.1	1174.7	1161.3	1161.3	1167.1	1167.1	1172.8	1184.3	1201.5	1203.4
22.5°	1199.6	1197.7	1184.3	1172.8	1172.8	1176.6	1180.5	1188.1	1197.7	1213.0	1216.8
25°	1213.0	1213.0	1201.5	1199.6	1203.4	1213.0	1211.1	1209.2	1213.0	1226.4	1232.1
27.5°	1220.6	1220.6	1213.0	1218.7	1234.0	1241.7	1232.1	1224.5	1224.5	1237.9	1239.8
30°	1245.5	1243.6	1236.0	1239.8	1253.2	1257.0	1251.3	1241.7	1247.4	1262.7	1264.6
32.5°	1287.6	1287.6	1276.1	1276.1	1285.7	1301.0	1281.9	1276.1	1283.8	1301.0	1302.9
35°	1352.7	1352.7	1337.4	1329.7	1337.4	1358.4	1329.7	1327.8	1341.2	1360.3	1362.2
37.5°	1434.9	1434.9	1425.4	1406.2	1408.1	1421.5	1396.7	1394.7	1419.6	1440.7	1440.7
40°	1538.2	1544.0	1534.4	1511.5	1503.8	1505.7	1486.6	1488.5	1517.2	1542.1	1542.1
42.5°	1666.4	1670.3	1654.9	1637.7	1628.2	1622.4	1603.3	1607.1	1641.6	1674.1	1674.1
45°	1821.4	1823.3	1808.0	1787.0	1775.5	1771.7	1752.5	1762.1	1800.4	1834.8	1832.9
47.5°	1995.5	1997.4	1982.1	1961.1	1953.4	1959.2	1940.0	1940.0	1974.5	2003.2	1999.3
50°	2192.6	2196.4	2179.2	2169.6	2163.9	2179.2	2156.2	2135.2	2158.1	2186.8	2183.0
52.5°	2410.7	2420.2	2408.8	2412.6	2433.6	2452.8	2414.5	2368.6	2380.1	2399.2	2393.5
55°	2674.7	2686.2	2690.0	2703.4	2758.9	2791.4	2728.3	2651.7	2646.0	2647.9	2638.4
57.5°	2971.3	2978.9	3003.8	3034.4	3149.2	3200.8	3101.4	2969.3	2927.3	2902.4	2896.6
60°	3269.7	3283.1	3344.3	3407.5	3583.5	3677.2	3524.2	3302.2	3212.3	3166.4	3156.8
62.5°	3570.1	3596.9	3696.4	3803.5	4059.9	4199.6	3964.2	3642.8	3512.7	3455.3	3440.0
65°	3918.3	3950.8	4071.4	4207.2	4492.3	4689.3	4404.3	3994.8	3855.2	3778.6	3759.5
67.5°	4325.8	4360.3	4457.8	4609.0	4878.8	5072.0	4819.4	4354.5	4172.8	4075.2	4059.9
70°	4660.6	4691.3	4796.5	4949.5	5150.4	5370.5	5129.4	4641.5	4477.0	4408.1	4398.5
72.5°	4609.0	4649.2	4804.1	5033.7	5320.7	5569.4	5265.2	4697.0	4459.8	4364.1	4333.5
75°	4025.4	4069.5	4253.1	4668.3	5192.5	5563.7	5068.2	4327.7	4048.4	3968.1	3952.7
77.5°	2665.1	2707.2	3017.2	3671.5	4534.4	5070.1	4473.1	3625.6	3176.0	2982.7	2971.3
80°	1077.2	1130.7	1427.3	2121.8	3214.2	3941.3	3317.6	2320.8	1565.0	1262.7	1201.5
82.5°	250.6	298.5	434.3	782.5	1645.4	2454.7	1788.9	866.7	503.2	357.8	321.4
85°	105.2	107.1	185.6	254.5	514.7	991.1	585.5	315.7	256.4	187.5	183.7
87.5°	40.2	42.1	89.9	107.1	164.5	187.5	199.0	162.6	151.1	93.7	89.9
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)