

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: P399380

Luminaire Tested: **ARCH-L-PA3-130-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399380  
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-PA3-130-827-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16012 lumens  
Efficiency: N/A  
Efficacy: 120.4 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

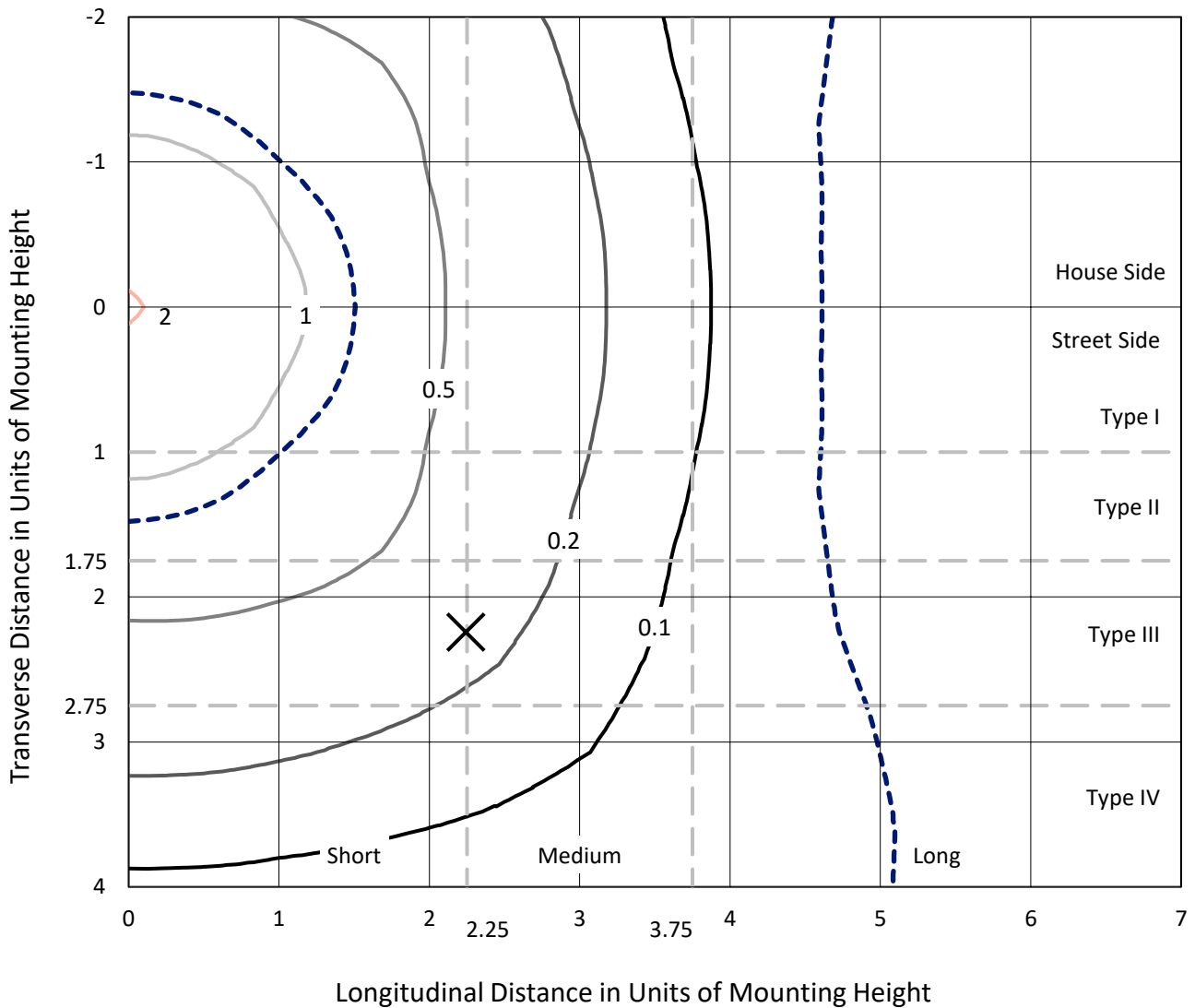
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

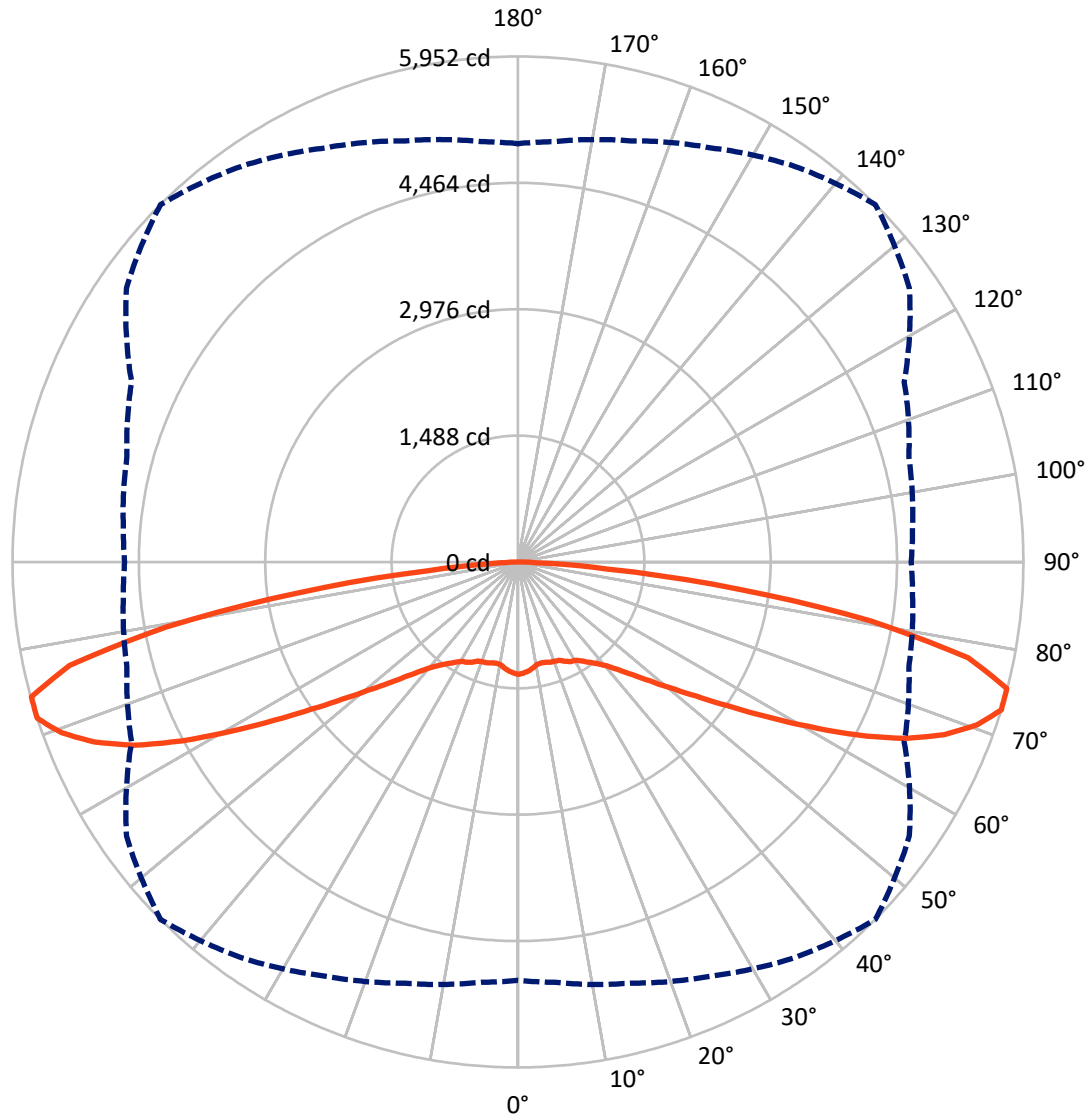
✕ Max cd  
 - - - 1/2 Max cd



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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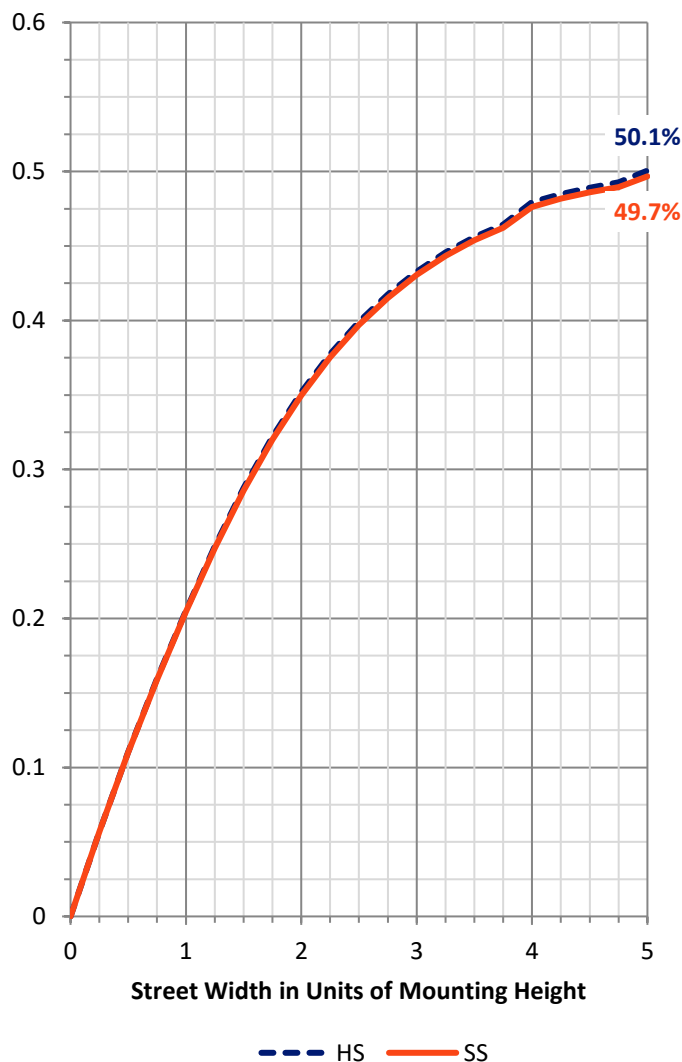
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8006.0	0.0	8006.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8006.0	0.0	8006.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16012.0	0.0	16012.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.5	0.8
10°-20°	352.7	2.2
20°-30°	599.3	3.7
30°-40°	914.0	5.7
40°-50°	1505.1	9.4
50°-60°	2628.3	16.4
60°-70°	4406.4	27.5
70°-80°	4715.7	29.5
80°-90°	769.1	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°	16012.0	100.0
0°-180°	16012.0	100.0

**Coefficient of Utilization**

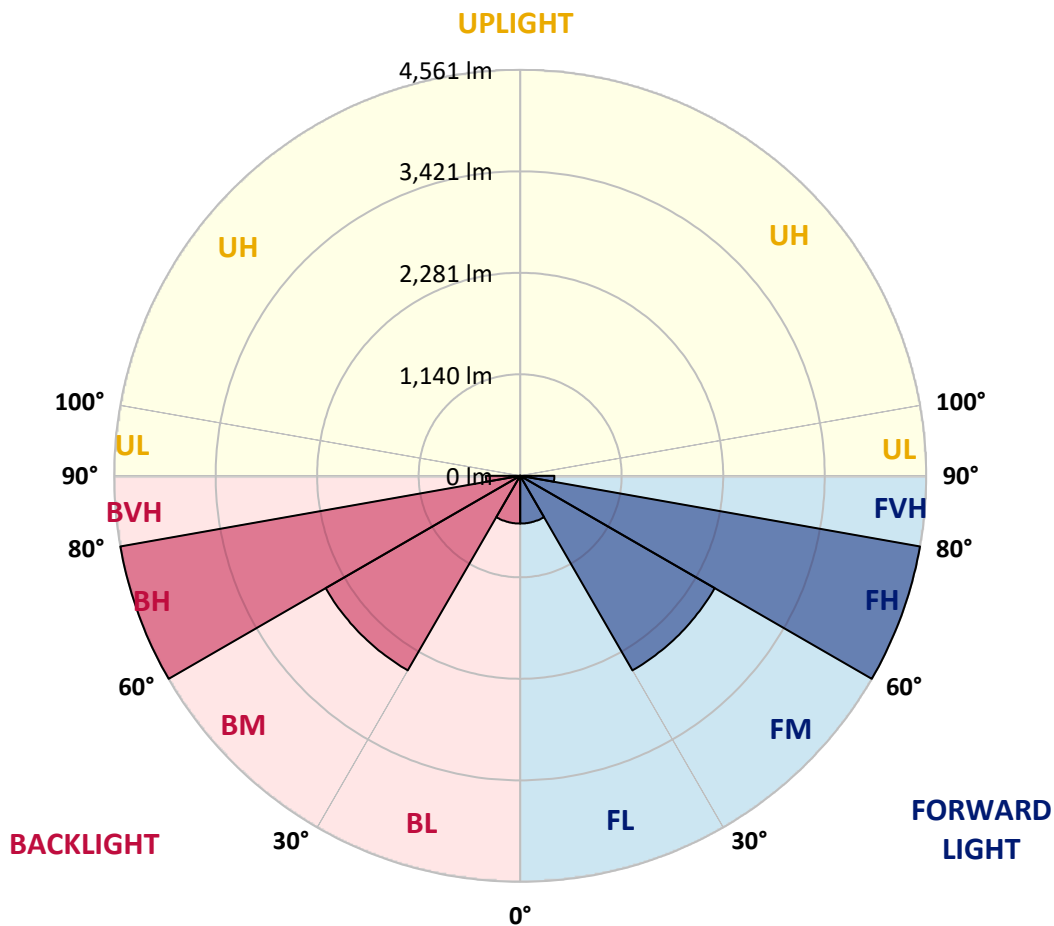


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.7	3.4			
FM (30°-60°)	2523.7	15.8			
FH (60°-80°)	4561.0	28.5			G2/5000
FVH (80°-90°)	384.6	2.4			G3/500
BL (0°-30°)	536.7	3.4	B2/1000		
BM (30°-60°)	2523.7	15.8	B3/5000		
BH (60°-80°)	4561.0	28.5	B4/5000		G2/5000
BVH (80°-90°)	384.6	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°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0
2.5°	1316.8	1316.8	1316.8	1314.8	1310.7	1308.7	1304.6	1306.6	1306.6	1306.6	1306.6
5°	1300.5	1300.5	1298.4	1296.4	1292.3	1290.2	1286.2	1290.2	1290.2	1290.2	1290.2
7.5°	1269.8	1271.8	1271.8	1269.8	1263.7	1261.6	1255.5	1257.5	1257.5	1259.6	1257.5
10°	1253.4	1253.4	1251.4	1241.2	1231.0	1226.9	1224.8	1231.0	1237.1	1243.2	1243.2
12.5°	1253.4	1253.4	1249.4	1233.0	1218.7	1218.7	1218.7	1226.9	1239.1	1251.4	1253.4
15°	1259.6	1259.6	1251.4	1233.0	1224.8	1226.9	1226.9	1235.0	1249.4	1265.7	1267.8
17.5°	1263.7	1263.7	1253.4	1235.0	1235.0	1241.2	1237.1	1243.2	1257.5	1275.9	1278.0
20°	1269.8	1269.8	1255.5	1241.2	1241.2	1247.3	1247.3	1253.4	1265.7	1284.1	1286.2
22.5°	1282.1	1280.0	1265.7	1253.4	1253.4	1257.5	1261.6	1269.8	1280.0	1296.4	1300.5
25°	1296.4	1296.4	1284.1	1282.1	1286.2	1296.4	1294.3	1292.3	1296.4	1310.7	1316.8
27.5°	1304.6	1304.6	1296.4	1302.5	1318.9	1327.1	1316.8	1308.7	1308.7	1323.0	1325.0
30°	1331.1	1329.1	1320.9	1325.0	1339.3	1343.4	1337.3	1327.1	1333.2	1349.5	1351.6
32.5°	1376.1	1376.1	1363.9	1363.9	1374.1	1390.4	1370.0	1363.9	1372.0	1390.4	1392.5
35°	1445.7	1445.7	1429.3	1421.1	1429.3	1451.8	1421.1	1419.1	1433.4	1453.8	1455.9
37.5°	1533.6	1533.6	1523.4	1502.9	1505.0	1519.3	1492.7	1490.6	1517.2	1539.7	1539.7
40°	1644.0	1650.1	1639.9	1615.4	1607.2	1609.2	1588.8	1590.8	1621.5	1648.1	1648.1
42.5°	1781.0	1785.1	1768.7	1750.3	1740.1	1734.0	1713.5	1717.6	1754.4	1789.2	1789.2
45°	1946.6	1948.7	1932.3	1909.8	1897.5	1893.5	1873.0	1883.2	1924.1	1960.9	1958.9
47.5°	2132.7	2134.7	2118.4	2095.9	2087.7	2093.8	2073.4	2073.4	2110.2	2140.9	2136.8
50°	2343.3	2347.4	2329.0	2318.8	2312.6	2329.0	2304.5	2282.0	2306.5	2337.2	2333.1
52.5°	2576.4	2586.6	2574.4	2578.5	2600.9	2621.4	2580.5	2531.4	2543.7	2564.1	2558.0
55°	2858.6	2870.9	2874.9	2889.3	2948.6	2983.3	2915.8	2834.1	2827.9	2830.0	2819.7
57.5°	3175.5	3183.7	3210.3	3243.0	3365.7	3420.9	3314.6	3173.5	3128.5	3101.9	3095.8
60°	3494.5	3508.8	3574.3	3641.7	3829.9	3930.0	3766.5	3529.3	3433.2	3384.1	3373.9
62.5°	3815.5	3844.2	3950.5	4065.0	4339.0	4488.3	4236.8	3893.2	3754.2	3692.9	3676.5
65°	4187.7	4222.4	4351.3	4496.4	4801.1	5011.7	4707.1	4269.5	4120.2	4038.4	4018.0
67.5°	4623.2	4660.0	4764.3	4925.9	5214.2	5420.7	5150.8	4653.9	4459.6	4355.4	4339.0
70°	4981.1	5013.8	5126.2	5289.8	5504.5	5739.7	5482.0	4960.6	4784.8	4711.1	4700.9
72.5°	4925.9	4968.8	5134.4	5379.8	5686.5	5952.3	5627.2	5019.9	4766.4	4664.1	4631.4
75°	4302.2	4349.2	4545.5	4989.2	5549.5	5946.2	5416.6	4625.3	4326.7	4240.9	4224.5
77.5°	2848.4	2893.3	3224.6	3923.9	4846.1	5418.6	4780.7	3874.8	3394.3	3187.8	3175.5
80°	1151.2	1208.5	1525.4	2267.6	3435.2	4212.2	3545.6	2480.3	1672.6	1349.5	1284.1
82.5°	267.9	319.0	464.2	836.3	1758.5	2623.4	1911.9	926.3	537.8	382.4	343.5
85°	112.5	114.5	198.3	272.0	550.0	1059.2	625.7	337.4	274.0	200.4	196.3
87.5°	42.9	45.0	96.1	114.5	175.9	200.4	212.7	173.8	161.5	100.2	96.1
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)