

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: P399191

Luminaire Tested: **ARCH-L-PA3-110-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399191
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-PA3-110-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 15766 lumens
Efficiency: N/A
Efficacy: 139.5 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

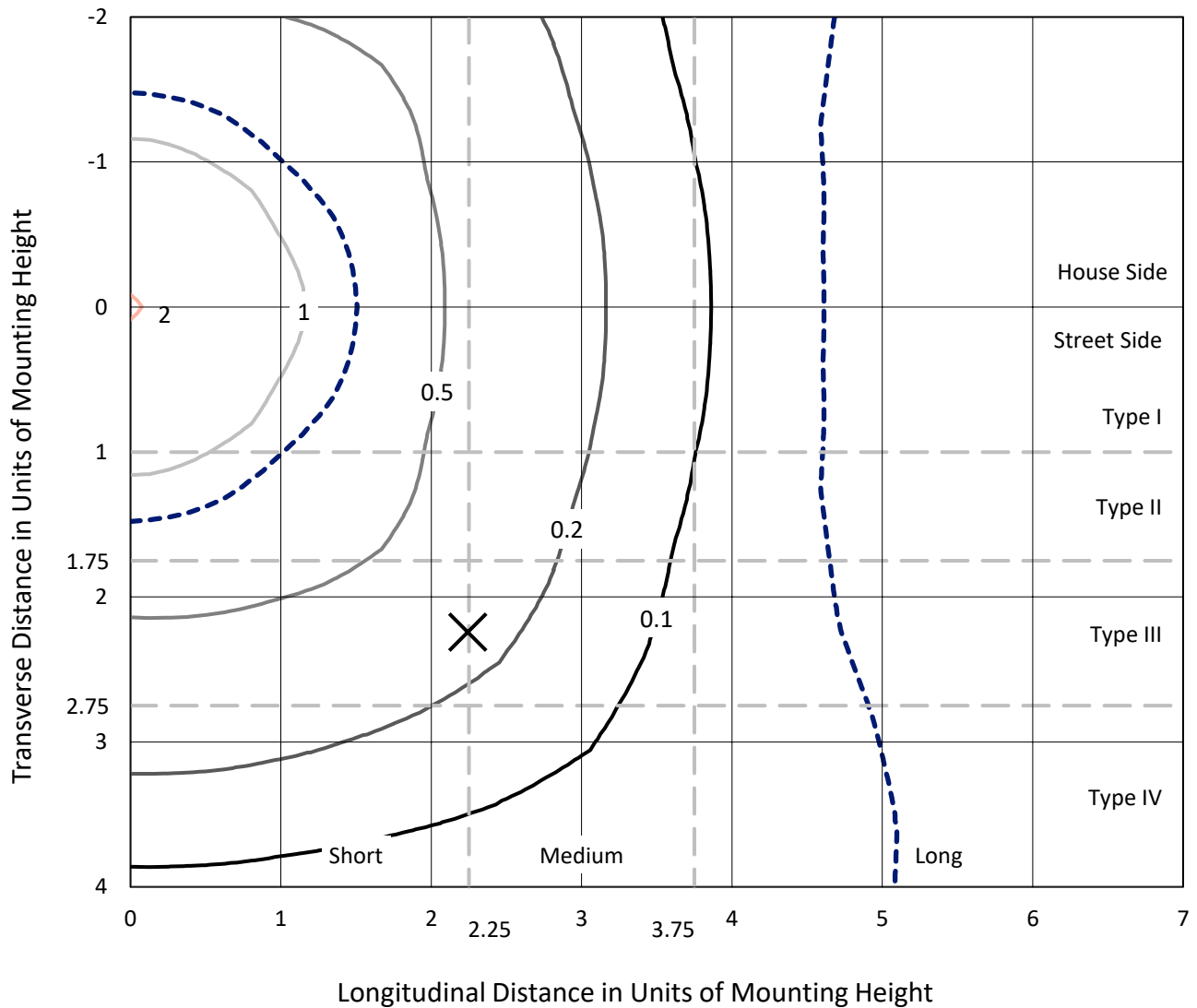
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399191
 CATALOG NUMBER: ARCH-L-PA3-110-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

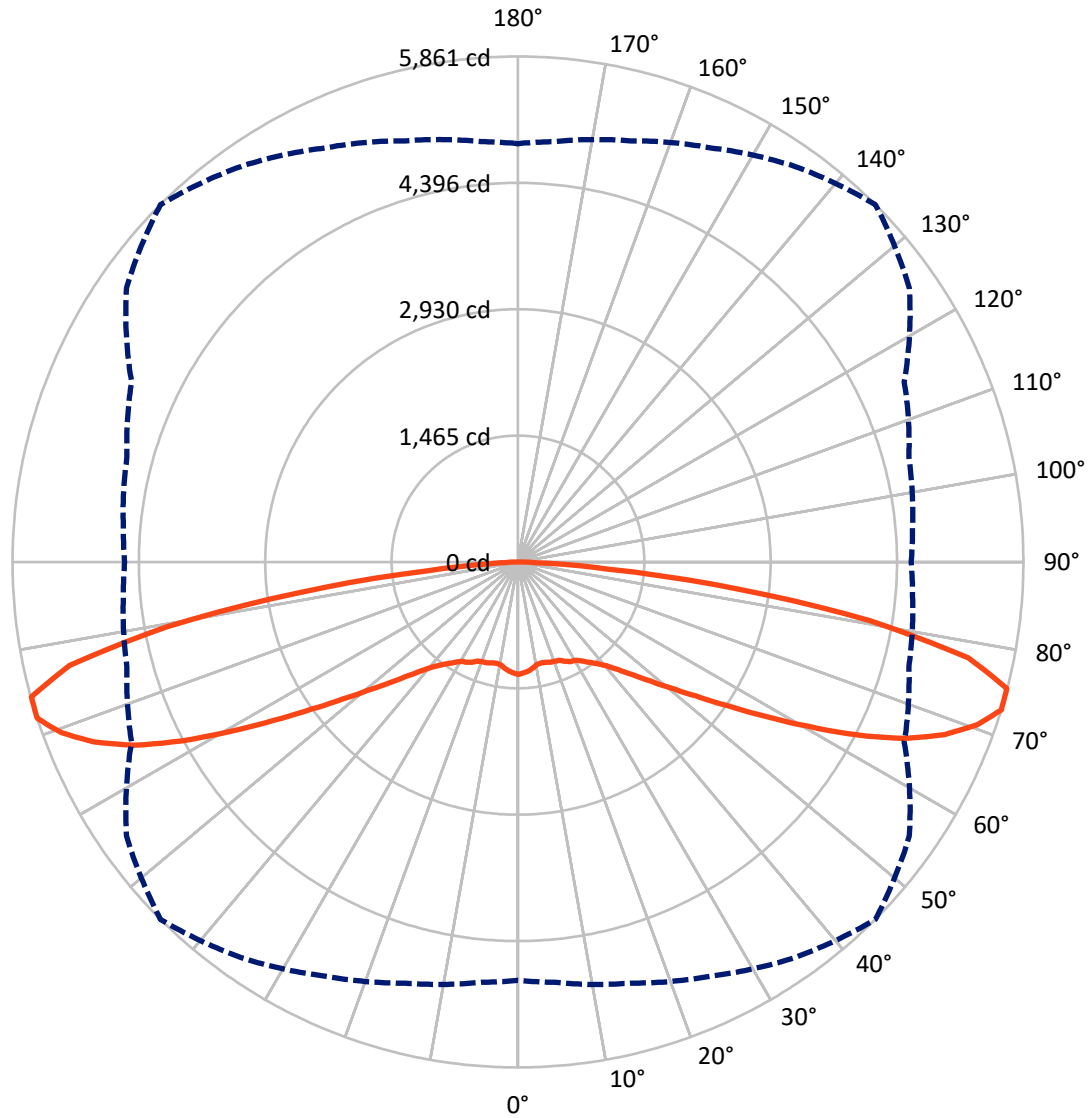
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

REPORT NUMBER: P399191
CATALOG NUMBER: ARCH-L-PA3-110-727-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P399191
 CATALOG NUMBER: ARCH-L-PA3-110-727-U-5WQ

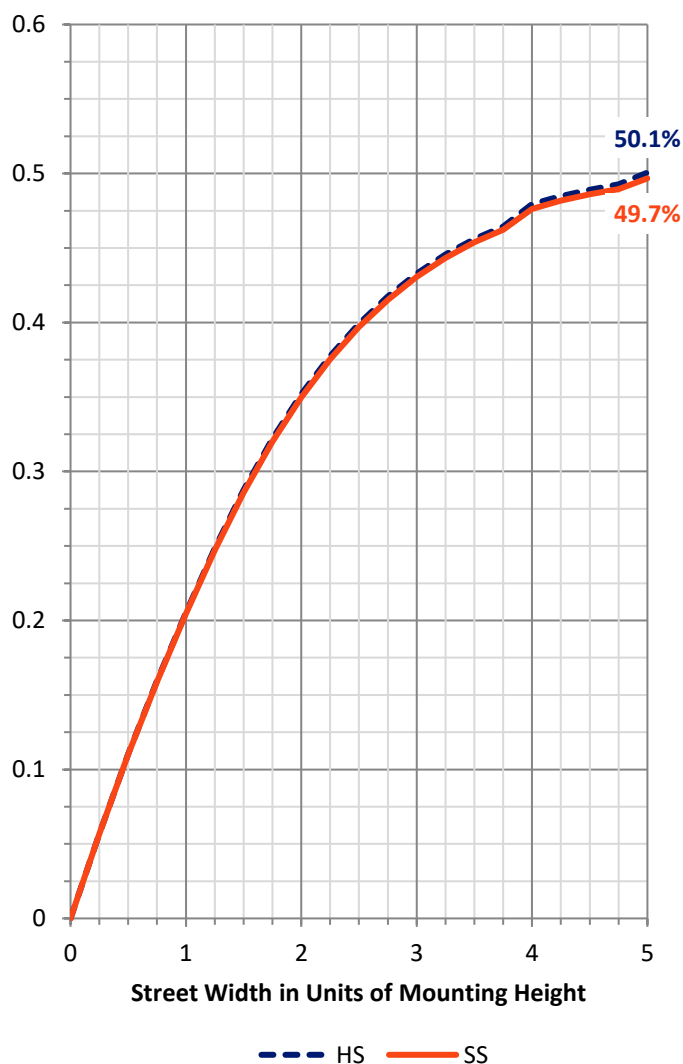
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7883.0	0.0	7883.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7883.0	0.0	7883.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15766.0	0.0	15766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	0.8
10°-20°	347.3	2.2
20°-30°	590.1	3.7
30°-40°	900.0	5.7
40°-50°	1481.9	9.4
50°-60°	2587.9	16.4
60°-70°	4338.7	27.5
70°-80°	4643.3	29.5
80°-90°	757.3	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°	15766.0	100.0
0°-180°	15766.0	100.0

Coefficient of Utilization

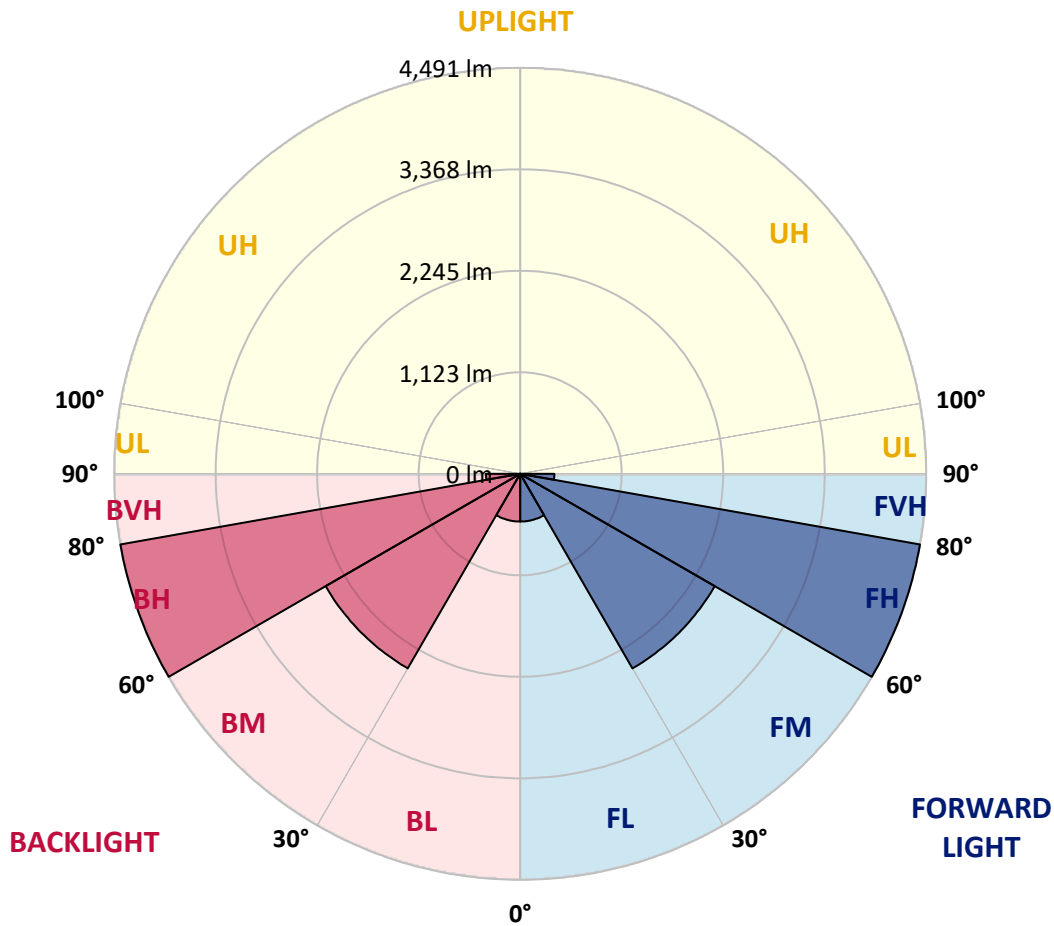


REPORT NUMBER: P399191
 CATALOG NUMBER: ARCH-L-PA3-110-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.5	3.4			
FM (30°-60°)	2484.9	15.8			
FH (60°-80°)	4491.0	28.5			G2/5000
FVH (80°-90°)	378.7	2.4			G3/500
BL (0°-30°)	528.5	3.4	B2/1000		
BM (30°-60°)	2484.9	15.8	B2/2500		
BH (60°-80°)	4491.0	28.5	B4/5000		G2/5000
BVH (80°-90°)	378.7	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





REPORT NUMBER: P399191

CATALOG NUMBER: ARCH-L-PA3-110-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7
2.5°	1296.6	1296.6	1296.6	1294.6	1290.6	1288.5	1284.5	1286.5	1286.5	1286.5	1286.5
5°	1280.5	1280.5	1278.5	1276.5	1272.4	1270.4	1266.4	1270.4	1270.4	1270.4	1270.4
7.5°	1250.3	1252.3	1252.3	1250.3	1244.3	1242.2	1236.2	1238.2	1238.2	1240.2	1238.2
10°	1234.2	1234.2	1232.2	1222.1	1212.0	1208.0	1206.0	1212.0	1218.1	1224.1	1224.1
12.5°	1234.2	1234.2	1230.2	1214.1	1200.0	1200.0	1200.0	1208.0	1220.1	1232.2	1234.2
15°	1240.2	1240.2	1232.2	1214.1	1206.0	1208.0	1208.0	1216.1	1230.2	1246.3	1248.3
17.5°	1244.3	1244.3	1234.2	1216.1	1216.1	1222.1	1218.1	1224.1	1238.2	1256.3	1258.3
20°	1250.3	1250.3	1236.2	1222.1	1222.1	1228.1	1228.1	1234.2	1246.3	1264.4	1266.4
22.5°	1262.4	1260.4	1246.3	1234.2	1234.2	1238.2	1242.2	1250.3	1260.4	1276.5	1280.5
25°	1276.5	1276.5	1264.4	1262.4	1266.4	1276.5	1274.5	1272.4	1276.5	1290.6	1296.6
27.5°	1284.5	1284.5	1276.5	1282.5	1298.6	1306.7	1296.6	1288.5	1288.5	1302.6	1304.7
30°	1310.7	1308.7	1300.6	1304.7	1318.7	1322.8	1316.7	1306.7	1312.7	1328.8	1330.8
32.5°	1355.0	1355.0	1342.9	1342.9	1353.0	1369.1	1348.9	1342.9	1351.0	1369.1	1371.1
35°	1423.4	1423.4	1407.3	1399.3	1407.3	1429.5	1399.3	1397.3	1411.4	1431.5	1433.5
37.5°	1510.0	1510.0	1499.9	1479.8	1481.8	1495.9	1469.7	1467.7	1493.9	1516.1	1516.1
40°	1618.7	1624.8	1614.7	1590.6	1582.5	1584.5	1564.4	1566.4	1596.6	1622.8	1622.8
42.5°	1753.6	1757.7	1741.6	1723.4	1713.4	1707.3	1687.2	1691.2	1727.5	1761.7	1761.7
45°	1916.7	1918.7	1902.6	1880.5	1868.4	1864.4	1844.2	1854.3	1894.6	1930.8	1928.8
47.5°	2099.9	2101.9	2085.8	2063.7	2055.6	2061.7	2041.5	2041.5	2077.8	2108.0	2104.0
50°	2307.3	2311.3	2293.2	2283.1	2277.1	2293.2	2269.1	2246.9	2271.1	2301.3	2297.2
52.5°	2536.8	2546.9	2534.8	2538.8	2561.0	2581.1	2540.9	2492.5	2504.6	2524.7	2518.7
55°	2814.7	2826.8	2830.8	2844.9	2903.3	2937.5	2871.0	2790.5	2784.5	2786.5	2776.4
57.5°	3126.7	3134.8	3161.0	3193.2	3314.0	3368.3	3263.6	3124.7	3080.4	3054.3	3048.2
60°	3440.8	3454.9	3519.3	3585.8	3771.0	3869.7	3708.6	3475.1	3380.4	3332.1	3322.0
62.5°	3756.9	3785.1	3889.8	4002.5	4272.3	4419.3	4171.7	3833.4	3696.5	3636.1	3620.0
65°	4123.4	4157.6	4284.4	4427.4	4727.4	4934.7	4634.7	4203.9	4056.9	3976.4	3956.2
67.5°	4552.2	4588.4	4691.1	4850.2	5134.1	5337.4	5071.6	4582.4	4391.1	4288.4	4272.3
70°	4904.5	4936.7	5047.5	5208.5	5420.0	5651.5	5397.8	4884.4	4711.3	4638.8	4628.7
72.5°	4850.2	4892.5	5055.5	5297.1	5599.1	5860.9	5540.8	4942.8	4693.1	4592.5	4560.2
75°	4236.1	4282.4	4475.7	4912.6	5464.2	5854.8	5333.4	4554.2	4260.3	4175.7	4159.6
77.5°	2804.6	2848.9	3175.1	3863.6	4771.7	5335.4	4707.2	3815.3	3342.2	3138.8	3126.7
80°	1133.5	1189.9	1502.0	2232.8	3382.4	4147.5	3491.2	2442.2	1646.9	1328.8	1264.4
82.5°	263.7	314.1	457.0	823.5	1731.5	2583.1	1882.5	912.0	529.5	376.5	338.2
85°	110.7	112.7	195.3	267.8	541.6	1042.9	616.1	332.2	269.8	197.3	193.3
87.5°	42.3	44.3	94.6	112.7	173.1	197.3	209.4	171.1	159.1	98.7	94.6
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)