

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: P399263

Luminaire Tested: **ARCH-L-PA3-120-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399263
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-PA3-120-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 16996 lumens
Efficiency: N/A
Efficacy: 138.2 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

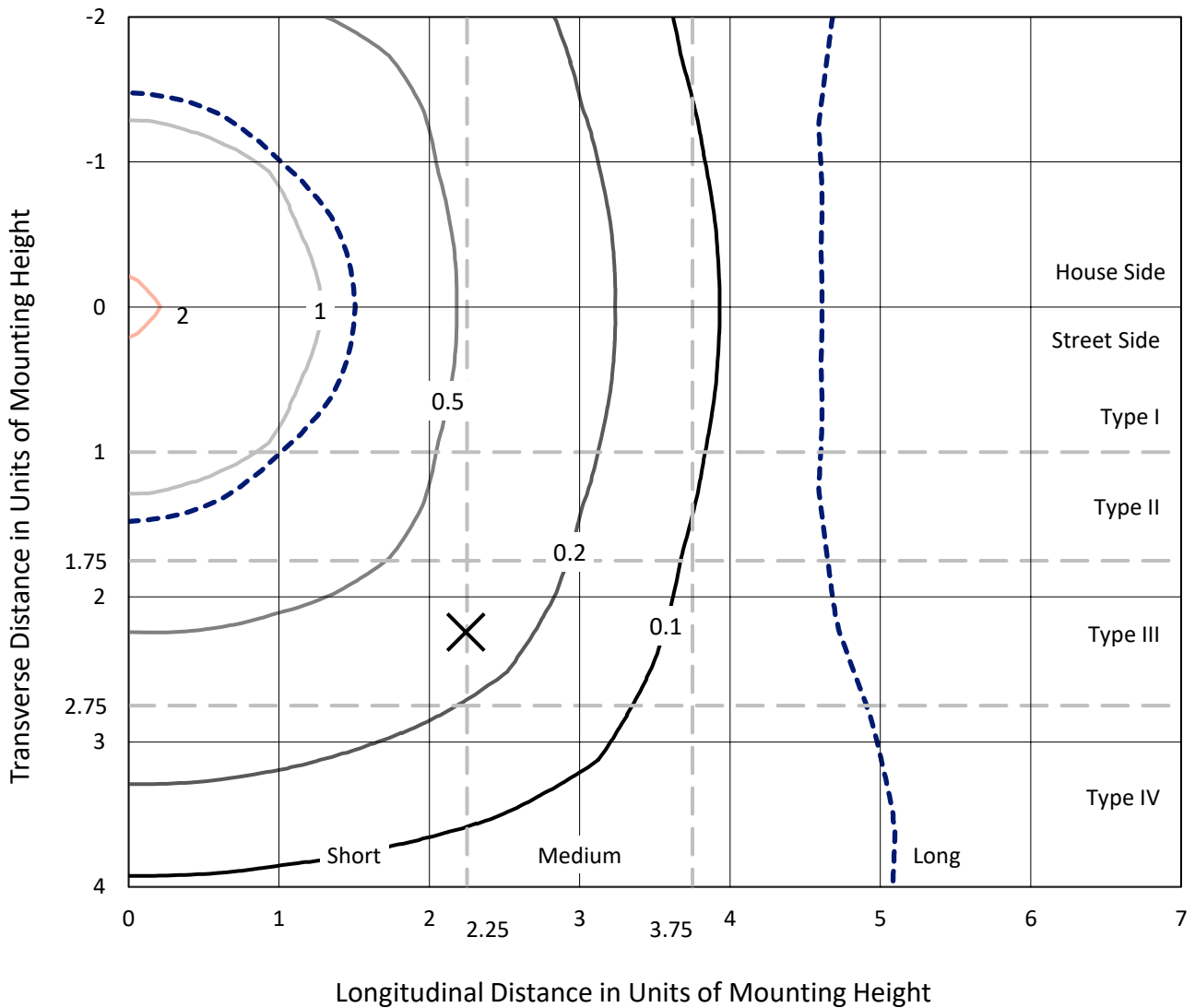
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399263
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Iso-Footcandle Lines of Horizontal Illumination

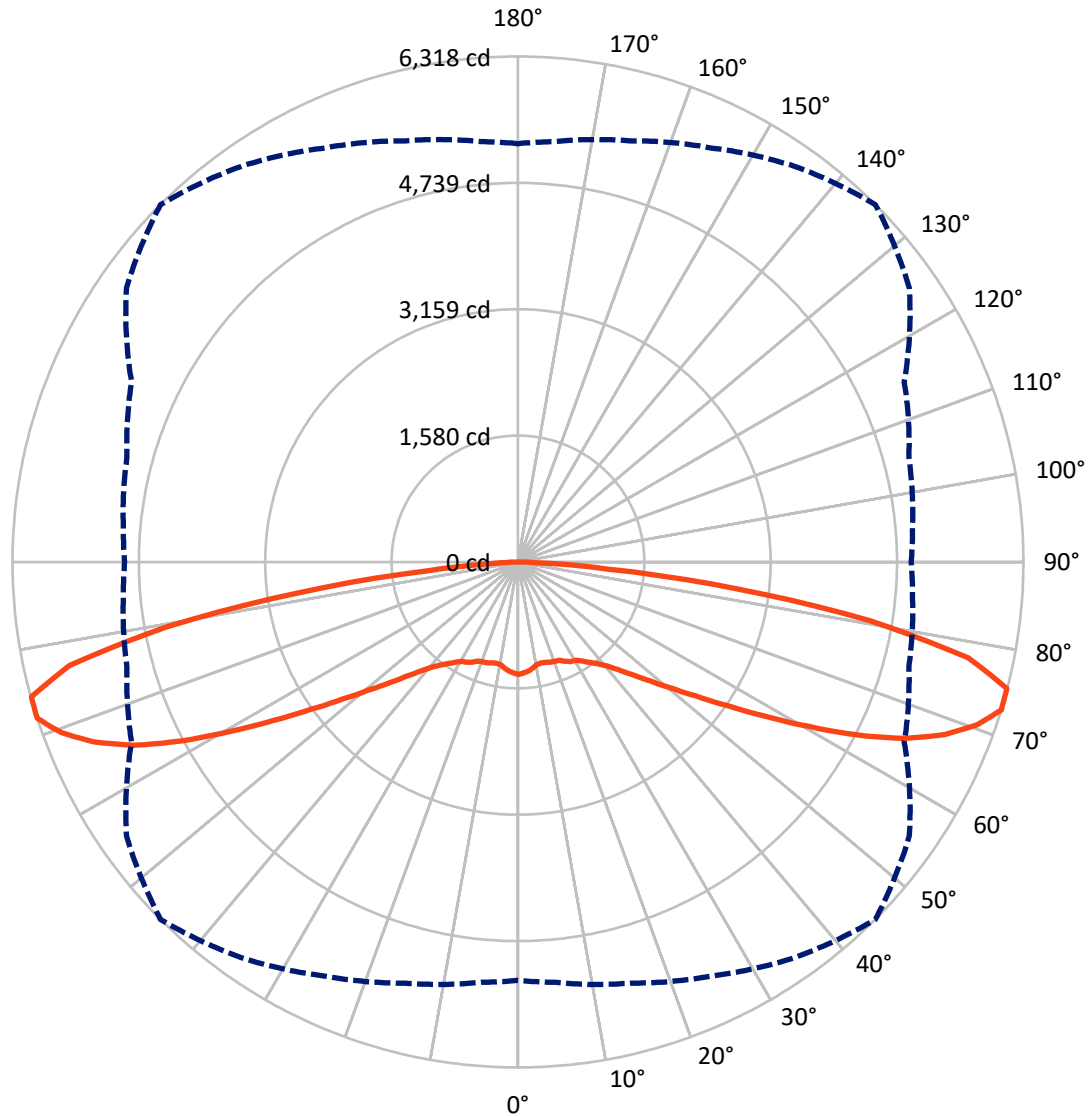
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

REPORT NUMBER: P399263
CATALOG NUMBER: ARCH-L-PA3-120-727-U-5WQ

Luminous Intensity Polar Plot



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

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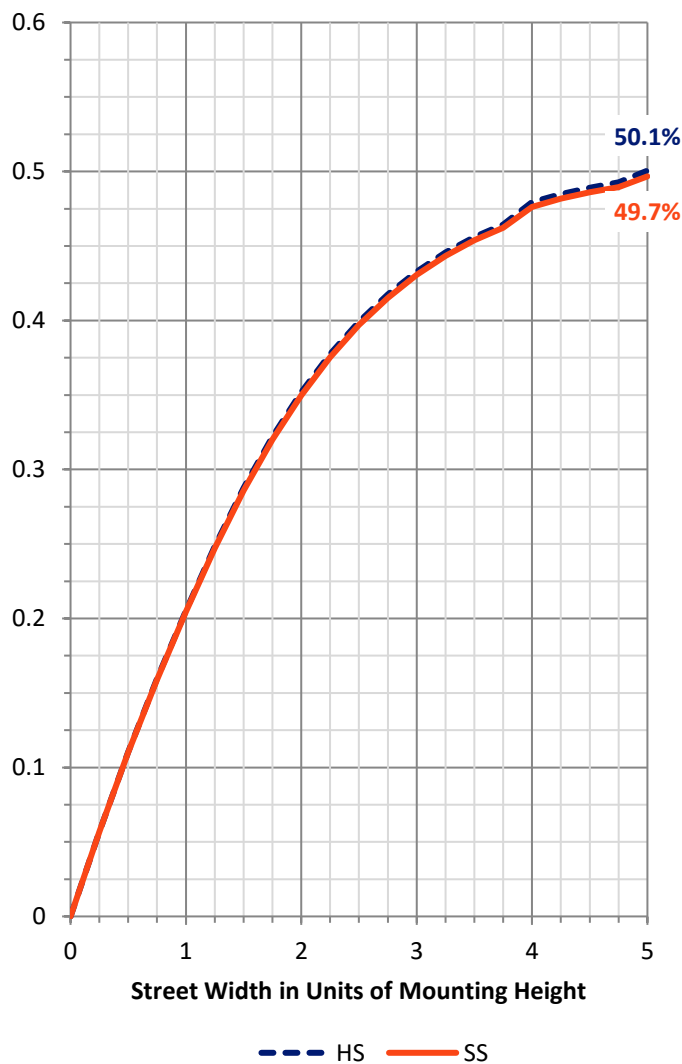
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8498.0	0.0	8498.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8498.0	0.0	8498.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16996.0	0.0	16996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	0.8
10°-20°	374.4	2.2
20°-30°	636.1	3.7
30°-40°	970.2	5.7
40°-50°	1597.5	9.4
50°-60°	2789.8	16.4
60°-70°	4677.2	27.5
70°-80°	5005.5	29.5
80°-90°	816.4	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°	16996.0	100.0
0°-180°	16996.0	100.0

Coefficient of Utilization

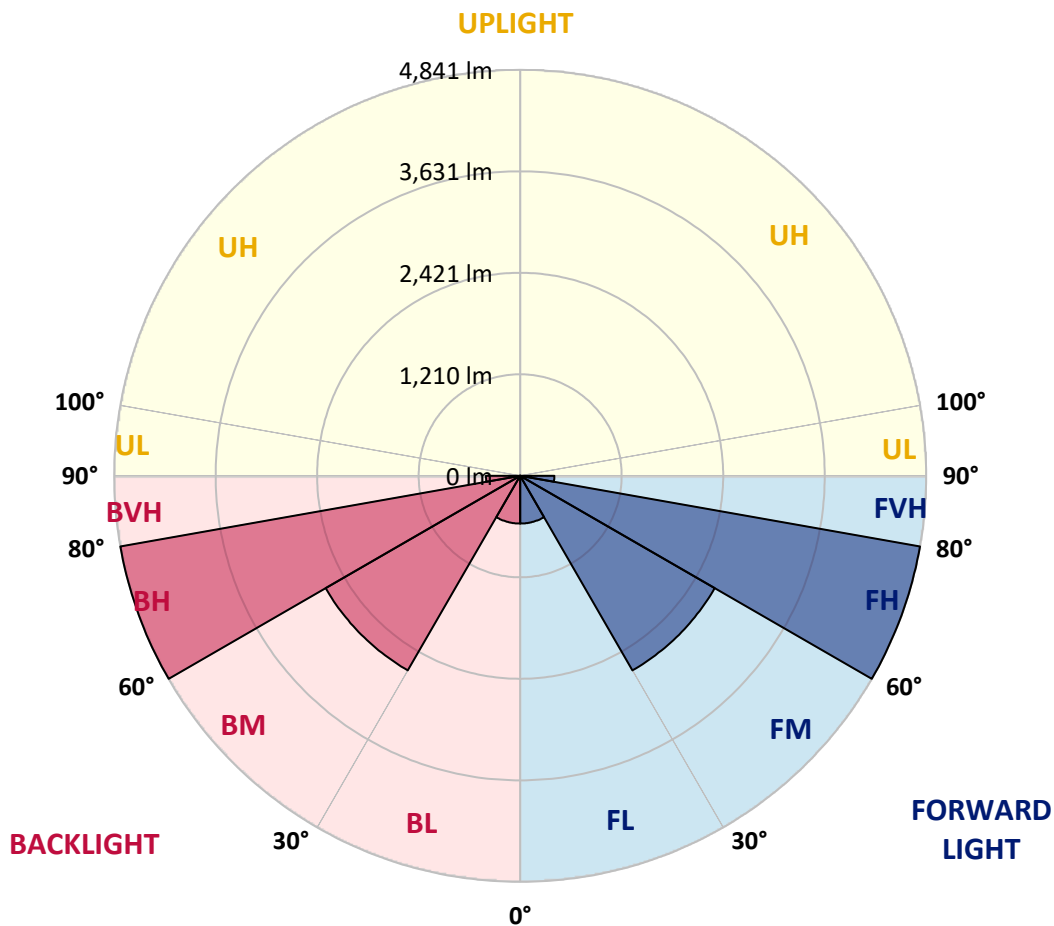


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.7	3.4			
FM (30°-60°)	2678.8	15.8			
FH (60°-80°)	4841.3	28.5			G2/5000
FVH (80°-90°)	408.2	2.4			G3/500
BL (0°-30°)	569.7	3.4	B2/1000		
BM (30°-60°)	2678.8	15.8	B3/5000		
BH (60°-80°)	4841.3	28.5	B4/5000		G2/5000
BVH (80°-90°)	408.2	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°	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4
2.5°	1397.8	1397.8	1397.8	1395.6	1391.2	1389.1	1384.7	1386.9	1386.9	1386.9	1386.9
5°	1380.4	1380.4	1378.2	1376.1	1371.7	1369.5	1365.2	1369.5	1369.5	1369.5	1369.5
7.5°	1347.8	1350.0	1350.0	1347.8	1341.3	1339.2	1332.6	1334.8	1334.8	1337.0	1334.8
10°	1330.5	1330.5	1328.3	1317.5	1306.6	1302.3	1300.1	1306.6	1313.1	1319.6	1319.6
12.5°	1330.5	1330.5	1326.1	1308.8	1293.6	1293.6	1293.6	1302.3	1315.3	1328.3	1330.5
15°	1337.0	1337.0	1328.3	1308.8	1300.1	1302.3	1302.3	1310.9	1326.1	1343.5	1345.7
17.5°	1341.3	1341.3	1330.5	1310.9	1310.9	1317.5	1313.1	1319.6	1334.8	1354.3	1356.5
20°	1347.8	1347.8	1332.6	1317.5	1317.5	1324.0	1324.0	1330.5	1343.5	1363.0	1365.2
22.5°	1360.9	1358.7	1343.5	1330.5	1330.5	1334.8	1339.2	1347.8	1358.7	1376.1	1380.4
25°	1376.1	1376.1	1363.0	1360.9	1365.2	1376.1	1373.9	1371.7	1376.1	1391.2	1397.8
27.5°	1384.7	1384.7	1376.1	1382.6	1399.9	1408.6	1397.8	1389.1	1389.1	1404.3	1406.4
30°	1412.9	1410.8	1402.1	1406.4	1421.6	1426.0	1419.5	1408.6	1415.1	1432.5	1434.7
32.5°	1460.7	1460.7	1447.7	1447.7	1458.5	1475.9	1454.2	1447.7	1456.4	1475.9	1478.1
35°	1534.5	1534.5	1517.1	1508.4	1517.1	1541.0	1508.4	1506.3	1521.5	1543.2	1545.3
37.5°	1627.8	1627.8	1617.0	1595.3	1597.4	1612.6	1584.4	1582.2	1610.5	1634.3	1634.3
40°	1745.0	1751.5	1740.7	1714.6	1706.0	1708.1	1686.4	1688.6	1721.2	1749.4	1749.4
42.5°	1890.4	1894.8	1877.4	1857.9	1847.0	1840.5	1818.8	1823.2	1862.2	1899.1	1899.1
45°	2066.2	2068.4	2051.1	2027.2	2014.2	2009.8	1988.1	1999.0	2042.4	2081.4	2079.3
47.5°	2263.8	2265.9	2248.6	2224.7	2216.0	2222.5	2200.8	2200.8	2239.9	2272.4	2268.1
50°	2487.3	2491.7	2472.1	2461.3	2454.8	2472.1	2446.1	2422.2	2448.2	2480.8	2476.5
52.5°	2734.7	2745.6	2732.6	2736.9	2760.8	2782.5	2739.1	2687.0	2700.0	2721.7	2715.2
55°	3034.3	3047.3	3051.6	3066.8	3129.8	3166.7	3095.0	3008.2	3001.7	3003.9	2993.0
57.5°	3370.7	3379.4	3407.6	3442.3	3572.5	3631.1	3518.3	3368.5	3320.8	3292.5	3286.0
60°	3709.3	3724.5	3793.9	3865.5	4065.2	4171.6	3997.9	3746.2	3644.2	3592.1	3581.2
62.5°	4050.0	4080.4	4193.3	4314.8	4605.7	4764.1	4497.1	4132.5	3984.9	3919.8	3902.4
65°	4445.0	4481.9	4618.7	4772.8	5096.2	5319.7	4996.3	4531.9	4373.4	4286.6	4264.9
67.5°	4907.3	4946.4	5057.1	5228.6	5534.6	5753.8	5467.3	4939.9	4733.7	4623.0	4605.7
70°	5287.2	5321.9	5441.3	5614.9	5842.8	6092.4	5818.9	5265.5	5078.8	5000.7	4989.8
72.5°	5228.6	5274.1	5449.9	5710.4	6036.0	6318.1	5973.0	5328.4	5059.3	4950.7	4916.0
75°	4566.6	4616.5	4824.9	5295.8	5890.5	6311.6	5749.5	4909.5	4592.6	4501.5	4484.1
77.5°	3023.4	3071.2	3422.8	4165.1	5143.9	5751.6	5074.5	4113.0	3602.9	3383.7	3370.7
80°	1222.0	1282.7	1619.1	2407.0	3646.3	4471.1	3763.5	2632.7	1775.4	1432.5	1363.0
82.5°	284.3	338.6	492.7	887.7	1866.6	2784.7	2029.4	983.2	570.8	405.9	364.6
85°	119.4	121.5	210.5	288.7	583.8	1124.3	664.2	358.1	290.8	212.7	208.4
87.5°	45.6	47.7	102.0	121.5	186.7	212.7	225.7	184.5	171.5	106.4	102.0
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)