

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: P399146

Luminaire Tested: **ARCH-L-PA3-100-750-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399146
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-PA3-100-750-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17249 lumens
Efficiency: N/A
Efficacy: 169.1 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

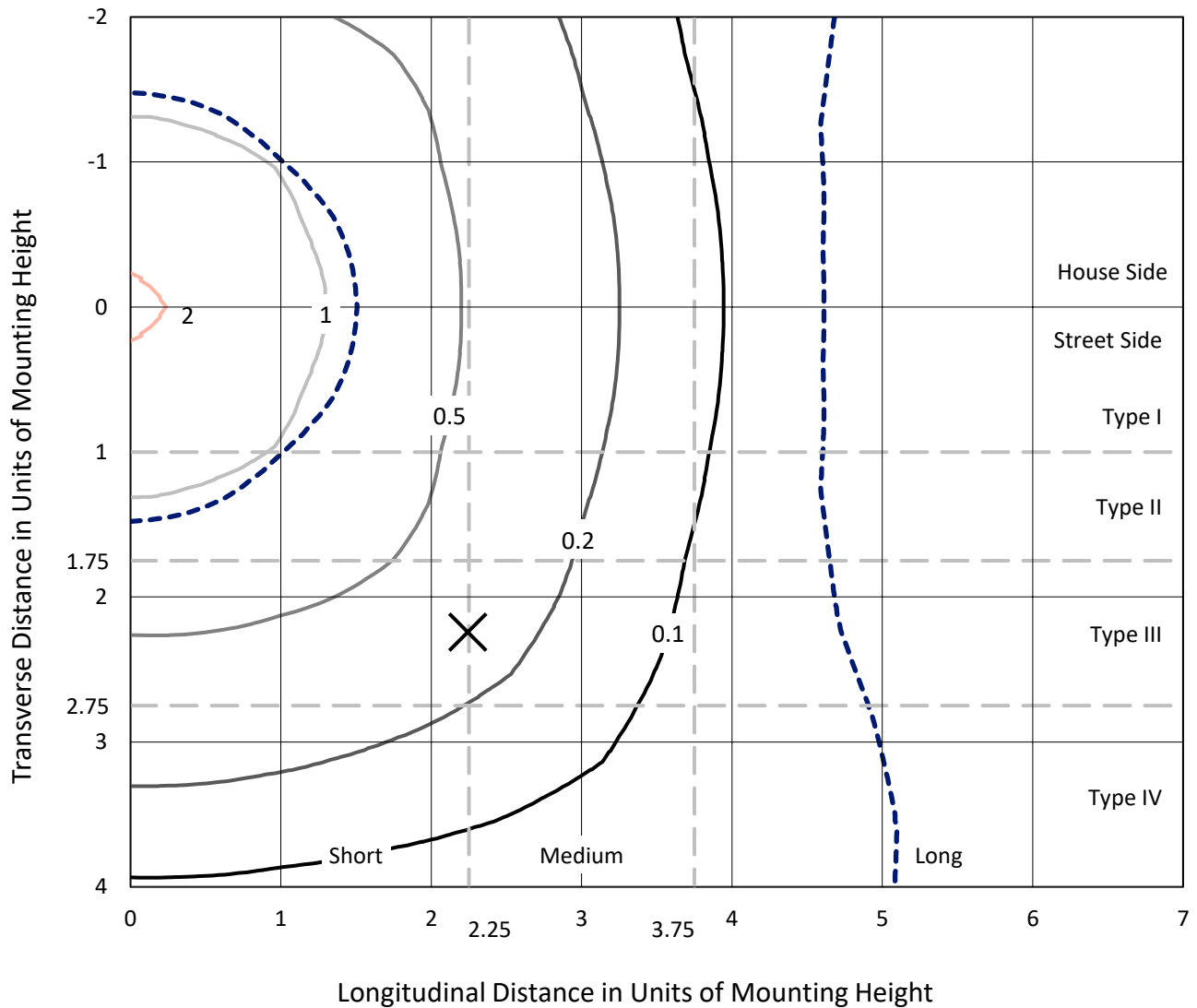
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399146
 CATALOG NUMBER: ARCH-L-PA3-100-750-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

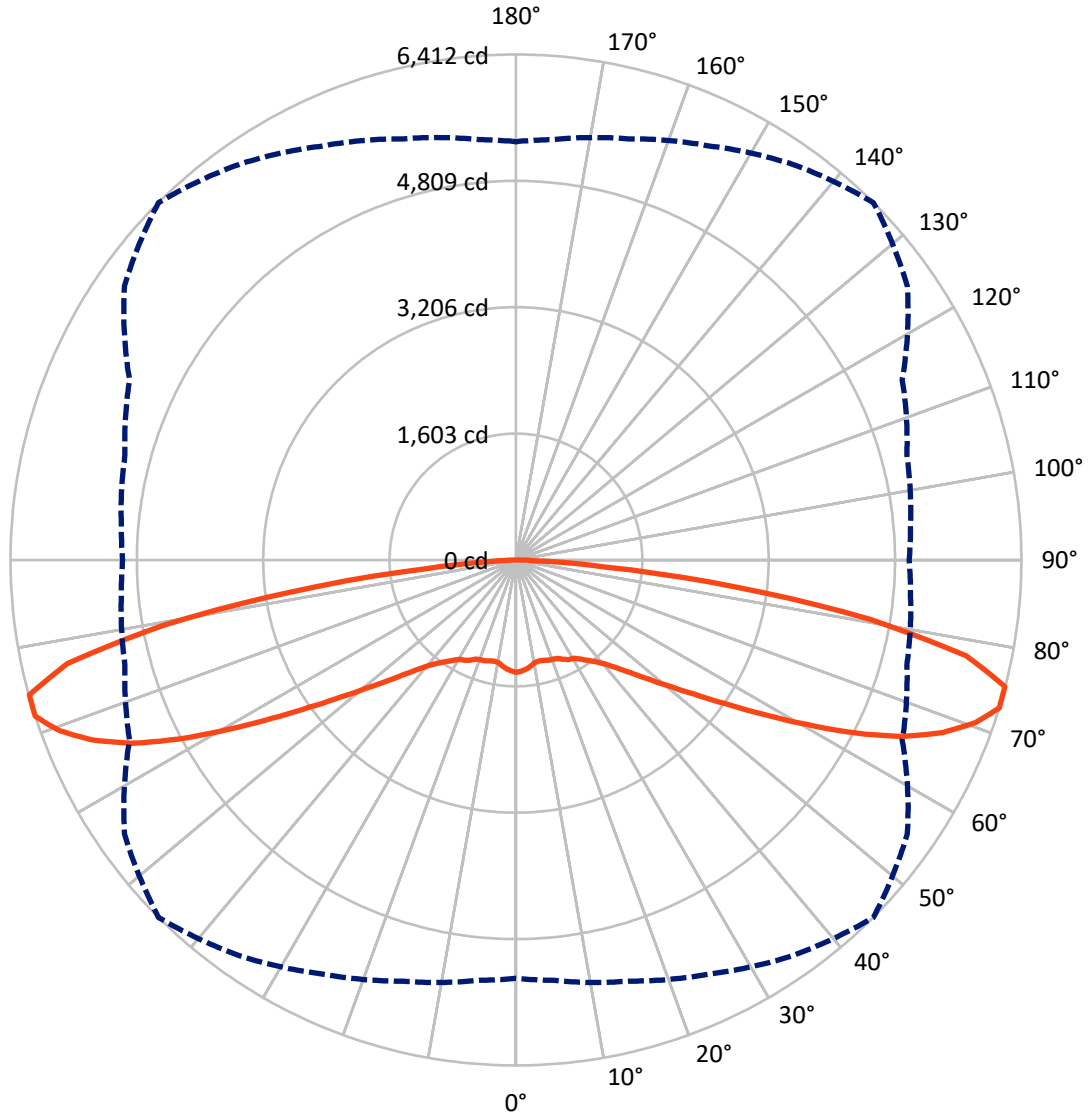
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399146
CATALOG NUMBER: ARCH-L-PA3-100-750-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399146
 CATALOG NUMBER: ARCH-L-PA3-100-750-U-5WQ

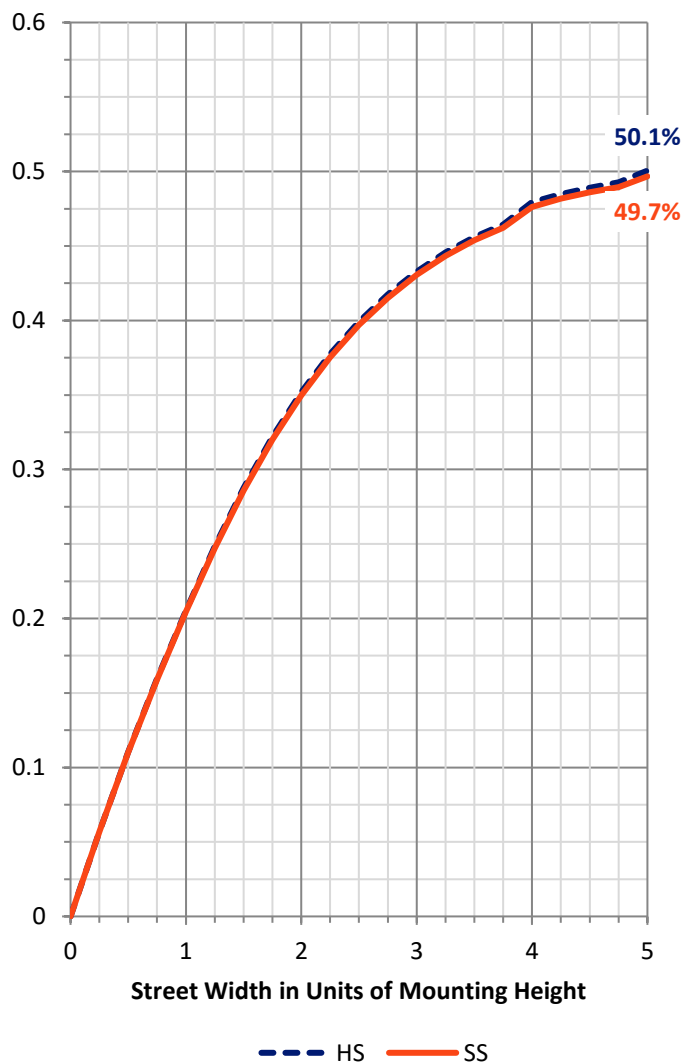
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8624.5	0.0	8624.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8624.5	0.0	8624.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17249.0	0.0	17249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	0.8
10°-20°	379.9	2.2
20°-30°	645.6	3.7
30°-40°	984.6	5.7
40°-50°	1621.3	9.4
50°-60°	2831.3	16.4
60°-70°	4746.8	27.5
70°-80°	5080.0	29.5
80°-90°	828.5	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°	17249.0	100.0
0°-180°	17249.0	100.0

Coefficient of Utilization



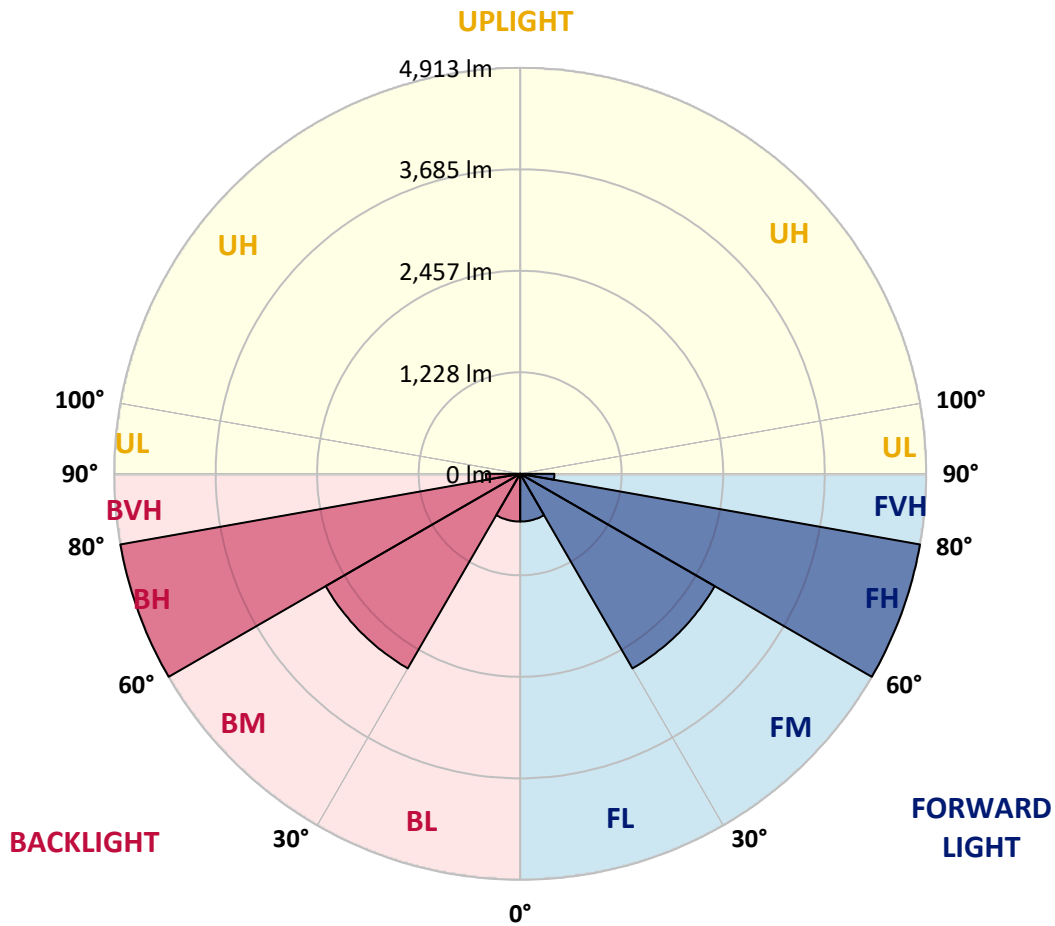
REPORT NUMBER: P399146
 CATALOG NUMBER: ARCH-L-PA3-100-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.2	3.4			
FM (30°-60°)	2718.6	15.8			
FH (60°-80°)	4913.4	28.5			G2/5000
FVH (80°-90°)	414.3	2.4			G3/500
BL (0°-30°)	578.2	3.4	B2/1000		
BM (30°-60°)	2718.6	15.8	B3/5000		
BH (60°-80°)	4913.4	28.5	B4/5000		G2/5000
BVH (80°-90°)	414.3	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: P399146

CATALOG NUMBER: ARCH-L-PA3-100-750-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1418.6	1418.6	1418.6	1416.4	1412.0	1409.8	1405.3	1407.5	1407.5	1407.5	1407.5
5°	1400.9	1400.9	1398.7	1396.5	1392.1	1389.9	1385.5	1389.9	1389.9	1389.9	1389.9
7.5°	1367.9	1370.1	1370.1	1367.9	1361.3	1359.1	1352.5	1354.7	1354.7	1356.9	1354.7
10°	1350.3	1350.3	1348.1	1337.1	1326.0	1321.6	1319.4	1326.0	1332.7	1339.3	1339.3
12.5°	1350.3	1350.3	1345.9	1328.3	1312.8	1312.8	1312.8	1321.6	1334.9	1348.1	1350.3
15°	1356.9	1356.9	1348.1	1328.3	1319.4	1321.6	1321.6	1330.5	1345.9	1363.5	1365.7
17.5°	1361.3	1361.3	1350.3	1330.5	1330.5	1337.1	1332.7	1339.3	1354.7	1374.5	1376.7
20°	1367.9	1367.9	1352.5	1337.1	1337.1	1343.7	1343.7	1350.3	1363.5	1383.3	1385.5
22.5°	1381.1	1378.9	1363.5	1350.3	1350.3	1354.7	1359.1	1367.9	1378.9	1396.5	1400.9
25°	1396.5	1396.5	1383.3	1381.1	1385.5	1396.5	1394.3	1392.1	1396.5	1412.0	1418.6
27.5°	1405.3	1405.3	1396.5	1403.1	1420.8	1429.6	1418.6	1409.8	1409.8	1425.2	1427.4
30°	1434.0	1431.8	1423.0	1427.4	1442.8	1447.2	1440.6	1429.6	1436.2	1453.8	1456.0
32.5°	1482.4	1482.4	1469.2	1469.2	1480.2	1497.9	1475.8	1469.2	1478.0	1497.9	1500.1
35°	1557.3	1557.3	1539.7	1530.9	1539.7	1563.9	1530.9	1528.7	1544.1	1566.1	1568.3
37.5°	1652.1	1652.1	1641.0	1619.0	1621.2	1636.6	1608.0	1605.8	1634.4	1658.7	1658.7
40°	1771.0	1777.6	1766.6	1740.2	1731.4	1733.6	1711.5	1713.7	1746.8	1775.4	1775.4
42.5°	1918.6	1923.0	1905.4	1885.5	1874.5	1867.9	1845.9	1850.3	1889.9	1927.4	1927.4
45°	2097.0	2099.2	2081.6	2057.4	2044.1	2039.7	2017.7	2028.7	2072.8	2112.4	2110.2
47.5°	2297.5	2299.7	2282.0	2257.8	2249.0	2255.6	2233.6	2233.6	2273.2	2306.3	2301.9
50°	2524.3	2528.7	2508.9	2497.9	2491.3	2508.9	2482.5	2458.3	2484.7	2517.7	2513.3
52.5°	2775.4	2786.5	2773.2	2777.7	2801.9	2823.9	2779.9	2727.0	2740.2	2762.2	2755.6
55°	3079.4	3092.6	3097.0	3112.5	3176.3	3213.8	3141.1	3053.0	3046.4	3048.6	3037.6
57.5°	3420.9	3429.7	3458.3	3493.5	3625.7	3685.2	3570.6	3418.6	3370.2	3341.6	3334.9
60°	3764.5	3779.9	3850.4	3923.1	4125.7	4233.7	4057.4	3801.9	3698.4	3645.5	3634.5
62.5°	4110.3	4141.1	4255.7	4379.0	4674.2	4835.0	4564.1	4194.0	4044.2	3978.1	3960.5
65°	4511.2	4548.7	4687.4	4843.8	5172.0	5398.9	5070.7	4599.3	4438.5	4350.4	4328.4
67.5°	4980.4	5020.0	5132.4	5306.4	5617.0	5839.5	5548.7	5013.4	4804.2	4691.8	4674.2
70°	5365.9	5401.1	5522.3	5698.5	5929.8	6183.1	5905.5	5343.8	5154.4	5075.1	5064.1
72.5°	5306.4	5352.7	5531.1	5795.4	6125.8	6412.2	6061.9	5407.7	5134.6	5024.4	4989.2
75°	4634.6	4685.2	4896.7	5374.7	5978.2	6405.6	5835.1	4982.6	4661.0	4568.5	4550.9
77.5°	3068.4	3116.9	3473.7	4227.1	5220.5	5837.3	5150.0	4174.2	3656.5	3434.1	3420.9
80°	1240.1	1301.8	1643.2	2442.8	3700.6	4537.6	3819.5	2671.9	1801.8	1453.8	1383.3
82.5°	288.6	343.6	500.0	900.9	1894.4	2826.1	2059.6	997.8	579.3	411.9	370.1
85°	121.2	123.4	213.7	293.0	592.5	1141.0	674.0	363.5	295.2	215.9	211.5
87.5°	46.3	48.5	103.5	123.4	189.4	215.9	229.1	187.2	174.0	107.9	103.5
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)