

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: P399389

Luminaire Tested: **ARCH-L-PA3-130-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399389
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-PA3-130-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 17308 lumens
Efficiency: N/A
Efficacy: 130.1 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

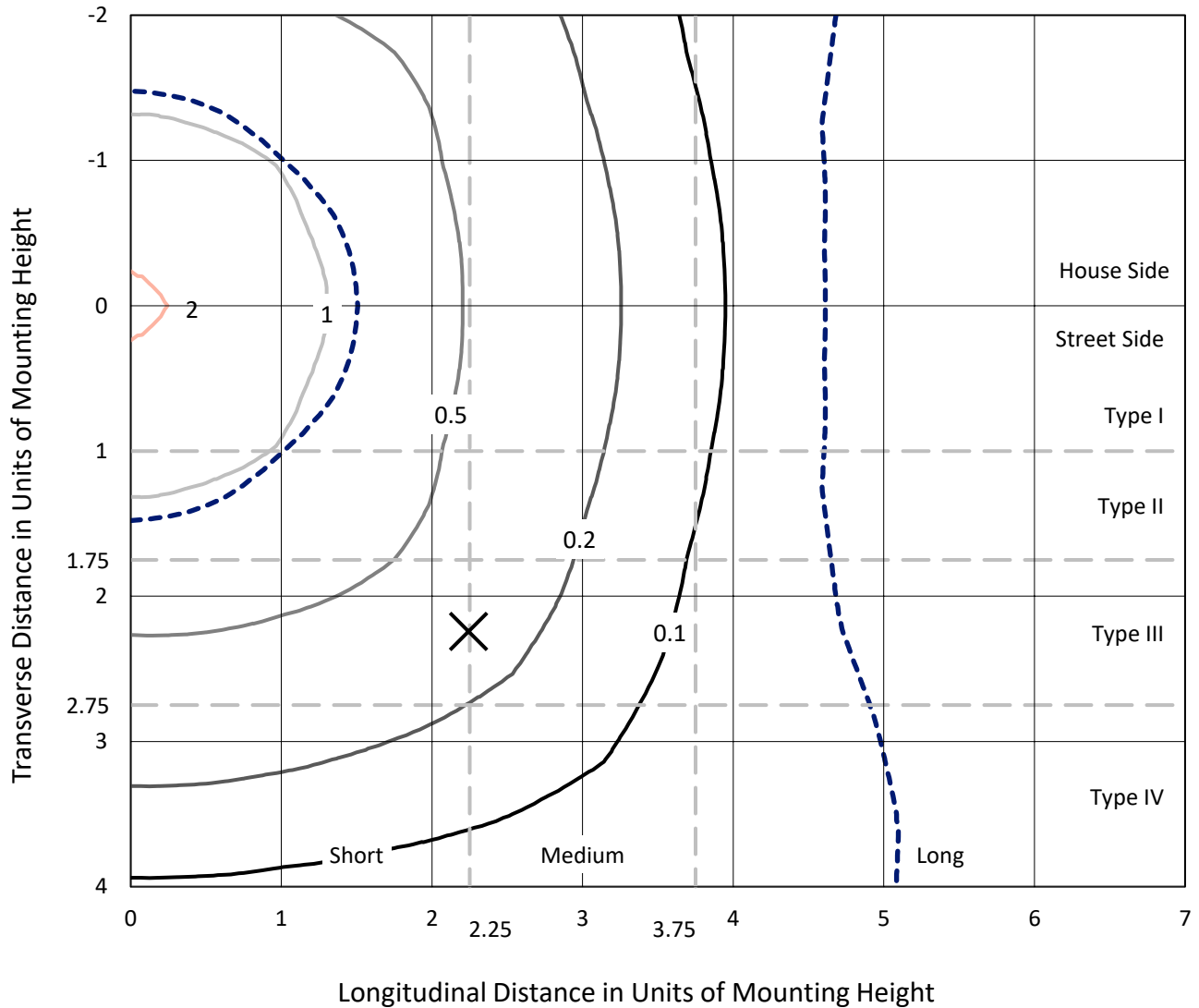
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399389
 CATALOG NUMBER: ARCH-L-PA3-130-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

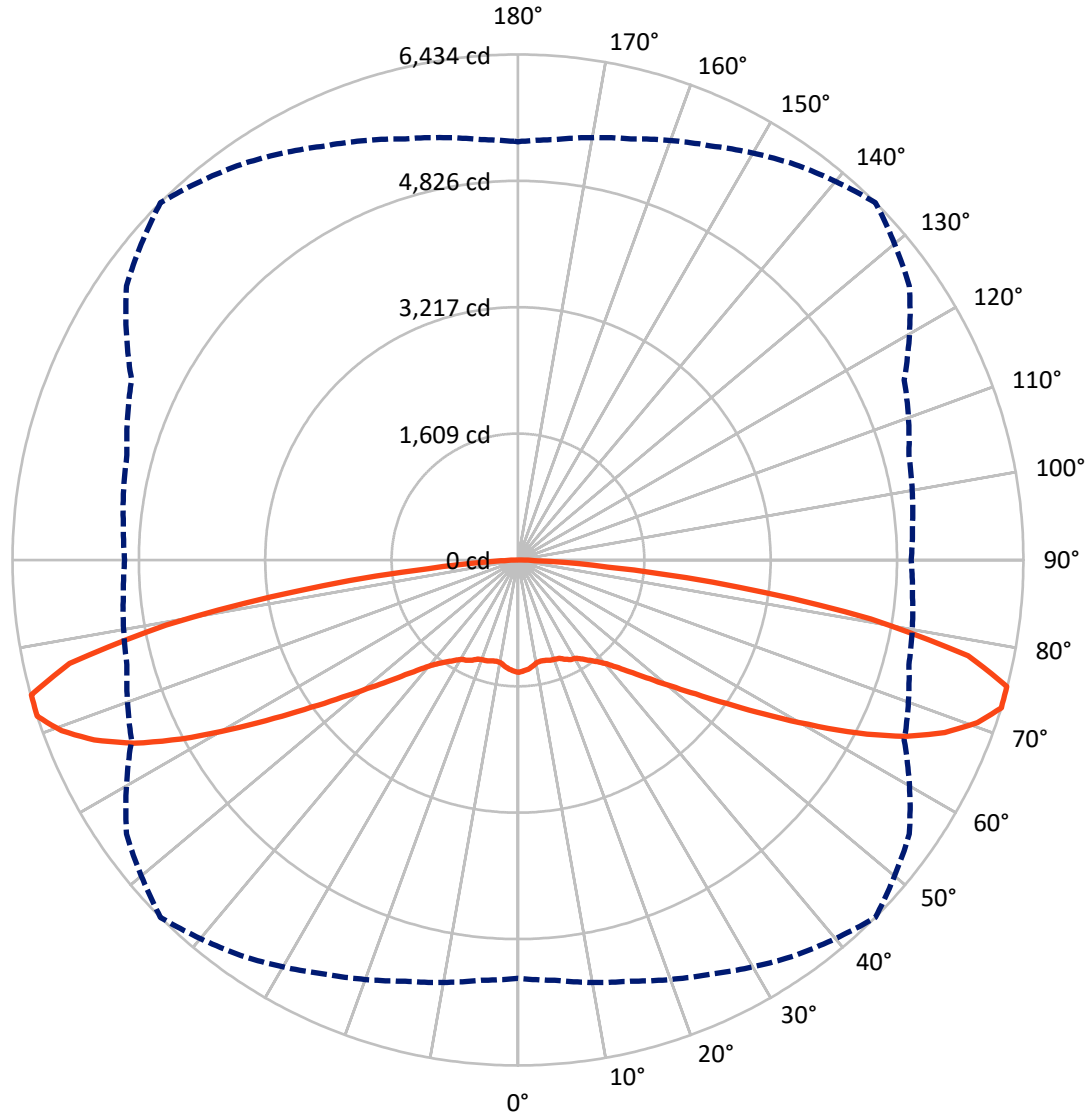
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399389
CATALOG NUMBER: ARCH-L-PA3-130-830-U-5WQ

Luminous Intensity Polar Plot



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



REPORT NUMBER: P399389
 CATALOG NUMBER: ARCH-L-PA3-130-830-U-5WQ

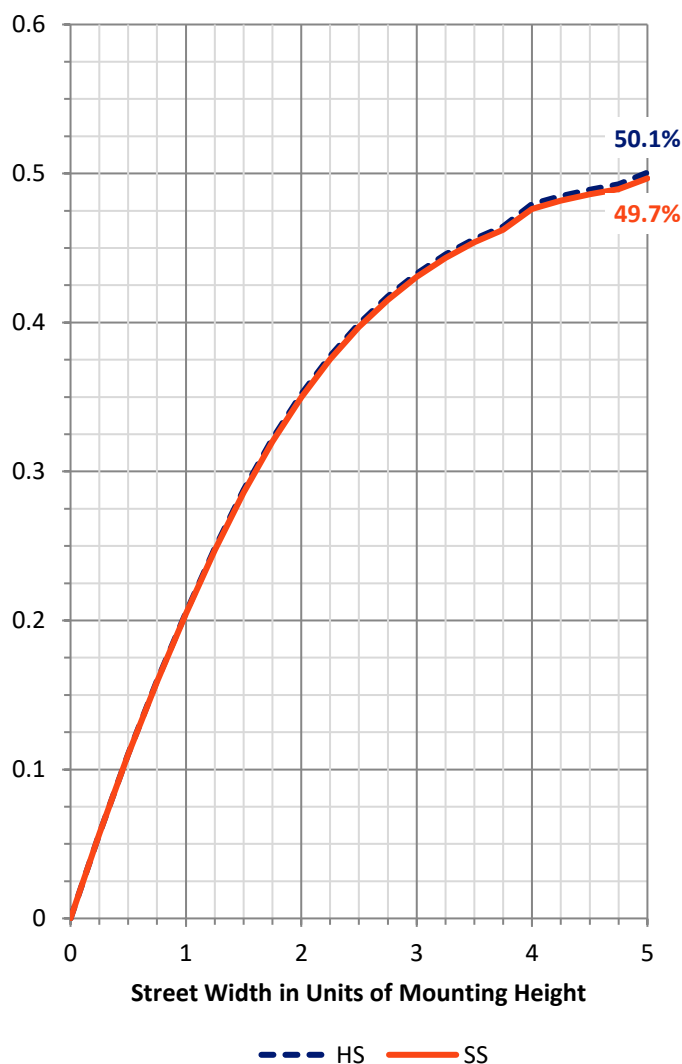
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8654.0	0.0	8654.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8654.0	0.0	8654.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17308.0	0.0	17308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	0.8
10°-20°	381.2	2.2
20°-30°	647.8	3.7
30°-40°	988.0	5.7
40°-50°	1626.9	9.4
50°-60°	2841.0	16.4
60°-70°	4763.0	27.5
70°-80°	5097.4	29.5
80°-90°	831.4	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°	17308.0	100.0
0°-180°	17308.0	100.0

Coefficient of Utilization



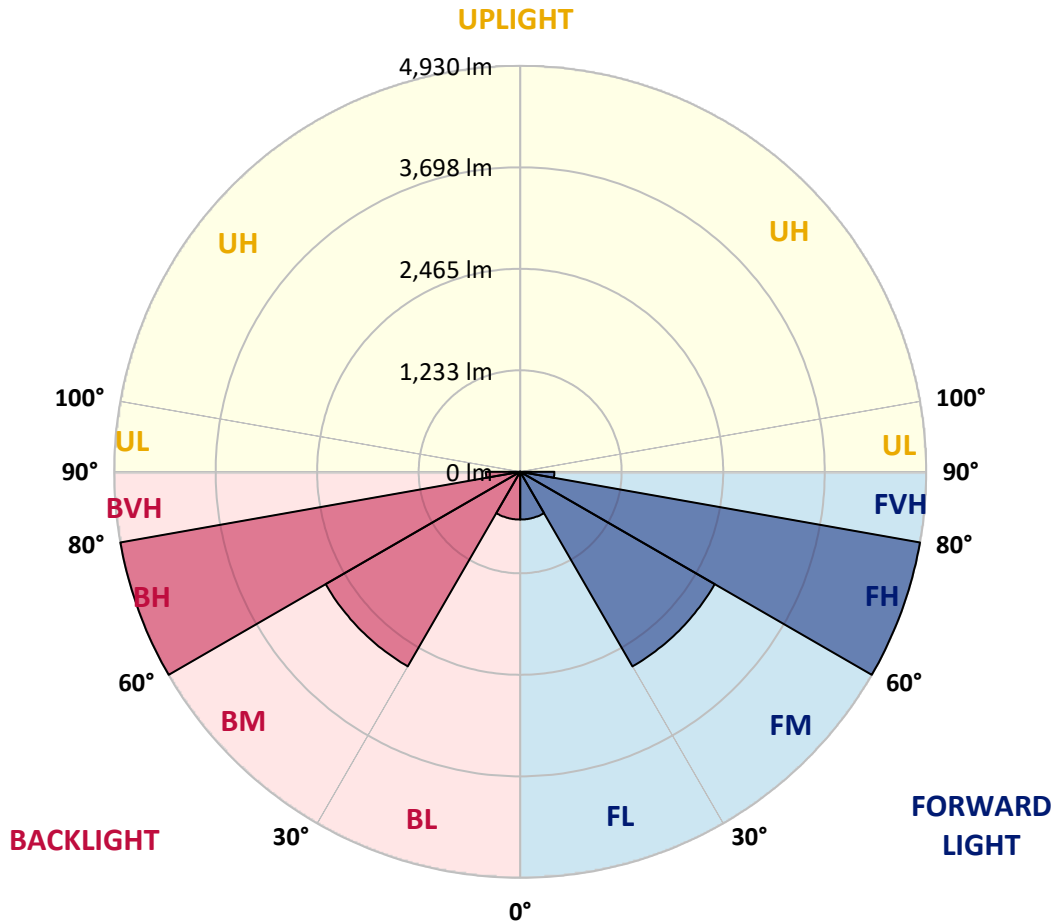
REPORT NUMBER: P399389
 CATALOG NUMBER: ARCH-L-PA3-130-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.2	3.4			
FM (30°-60°)	2727.9	15.8			
FH (60°-80°)	4930.2	28.5			G2/5000
FVH (80°-90°)	415.7	2.4			G3/500
BL (0°-30°)	580.2	3.4	B2/1000		
BM (30°-60°)	2727.9	15.8	B3/5000		
BH (60°-80°)	4930.2	28.5	B4/5000		G2/5000
BVH (80°-90°)	415.7	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: P399389

CATALOG NUMBER: ARCH-L-PA3-130-830-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3	1432.3
2.5°	1423.4	1423.4	1423.4	1421.2	1416.8	1414.6	1410.2	1412.4	1412.4	1412.4	1412.4
5°	1405.7	1405.7	1403.5	1401.3	1396.9	1394.7	1390.3	1394.7	1394.7	1394.7	1394.7
7.5°	1372.6	1374.8	1374.8	1372.6	1365.9	1363.7	1357.1	1359.3	1359.3	1361.5	1359.3
10°	1354.9	1354.9	1352.7	1341.6	1330.6	1326.2	1324.0	1330.6	1337.2	1343.8	1343.8
12.5°	1354.9	1354.9	1350.5	1332.8	1317.3	1317.3	1317.3	1326.2	1339.4	1352.7	1354.9
15°	1361.5	1361.5	1352.7	1332.8	1324.0	1326.2	1326.2	1335.0	1350.5	1368.2	1370.4
17.5°	1365.9	1365.9	1354.9	1335.0	1335.0	1341.6	1337.2	1343.8	1359.3	1379.2	1381.4
20°	1372.6	1372.6	1357.1	1341.6	1341.6	1348.3	1348.3	1354.9	1368.2	1388.1	1390.3
22.5°	1385.8	1383.6	1368.2	1354.9	1354.9	1359.3	1363.7	1372.6	1383.6	1401.3	1405.7
25°	1401.3	1401.3	1388.1	1385.8	1390.3	1401.3	1399.1	1396.9	1401.3	1416.8	1423.4
27.5°	1410.2	1410.2	1401.3	1407.9	1425.6	1434.5	1423.4	1414.6	1414.6	1430.0	1432.3
30°	1438.9	1436.7	1427.8	1432.3	1447.7	1452.1	1445.5	1434.5	1441.1	1458.8	1461.0
32.5°	1487.5	1487.5	1474.3	1474.3	1485.3	1503.0	1480.9	1474.3	1483.1	1503.0	1505.2
35°	1562.7	1562.7	1545.0	1536.1	1545.0	1569.3	1536.1	1533.9	1549.4	1571.5	1573.7
37.5°	1657.7	1657.7	1646.7	1624.5	1626.8	1642.2	1613.5	1611.3	1640.0	1664.3	1664.3
40°	1777.1	1783.7	1772.6	1746.1	1737.3	1739.5	1717.4	1719.6	1752.7	1781.5	1781.5
42.5°	1925.1	1929.6	1911.9	1892.0	1880.9	1874.3	1852.2	1856.6	1896.4	1934.0	1934.0
45°	2104.2	2106.4	2088.7	2064.4	2051.1	2046.7	2024.6	2035.7	2079.9	2119.7	2117.4
47.5°	2305.3	2307.5	2289.8	2265.5	2256.7	2263.3	2241.2	2241.2	2281.0	2314.2	2309.7
50°	2533.0	2537.4	2517.5	2506.4	2499.8	2517.5	2491.0	2466.7	2493.2	2526.3	2521.9
52.5°	2784.9	2796.0	2782.7	2787.2	2811.5	2833.6	2789.4	2736.3	2749.6	2771.7	2765.1
55°	3090.0	3103.2	3107.6	3123.1	3187.2	3224.8	3151.8	3063.4	3056.8	3059.0	3048.0
57.5°	3432.6	3441.4	3470.1	3505.5	3638.1	3697.8	3582.9	3430.3	3381.7	3353.0	3346.4
60°	3777.4	3792.8	3863.6	3936.5	4139.8	4248.1	4071.3	3814.9	3711.0	3658.0	3646.9
62.5°	4124.4	4155.3	4270.2	4394.0	4690.2	4851.5	4579.7	4208.4	4058.1	3991.8	3974.1
65°	4526.6	4564.2	4703.5	4860.4	5189.7	5417.4	5088.0	4615.0	4453.7	4365.3	4343.2
67.5°	4997.4	5037.2	5149.9	5324.5	5636.2	5859.4	5567.7	5030.6	4820.6	4707.9	4690.2
70°	5384.2	5419.6	5541.2	5718.0	5950.1	6204.2	5925.7	5362.1	5172.0	5092.5	5081.4
72.5°	5324.5	5371.0	5550.0	5815.2	6146.8	6434.1	6082.7	5426.2	5152.1	5041.6	5006.3
75°	4650.4	4701.2	4913.4	5393.1	5998.7	6427.5	5855.0	4999.6	4676.9	4584.1	4566.4
77.5°	3078.9	3127.5	3485.6	4241.5	5238.3	5857.2	5167.6	4188.5	3669.1	3445.8	3432.6
80°	1244.4	1306.3	1648.9	2451.2	3713.3	4553.2	3832.6	2681.1	1808.0	1458.8	1388.1
82.5°	289.5	344.8	501.7	904.0	1900.8	2835.8	2066.6	1001.3	581.3	413.3	371.3
85°	121.6	123.8	214.4	294.0	594.6	1144.9	676.3	364.7	296.2	216.6	212.2
87.5°	46.4	48.6	103.9	123.8	190.1	216.6	229.9	187.9	174.6	108.3	103.9
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)