

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: P399524

Luminaire Tested: **ARCH-L-PA3-150-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399524
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-PA3-150-827-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18048 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

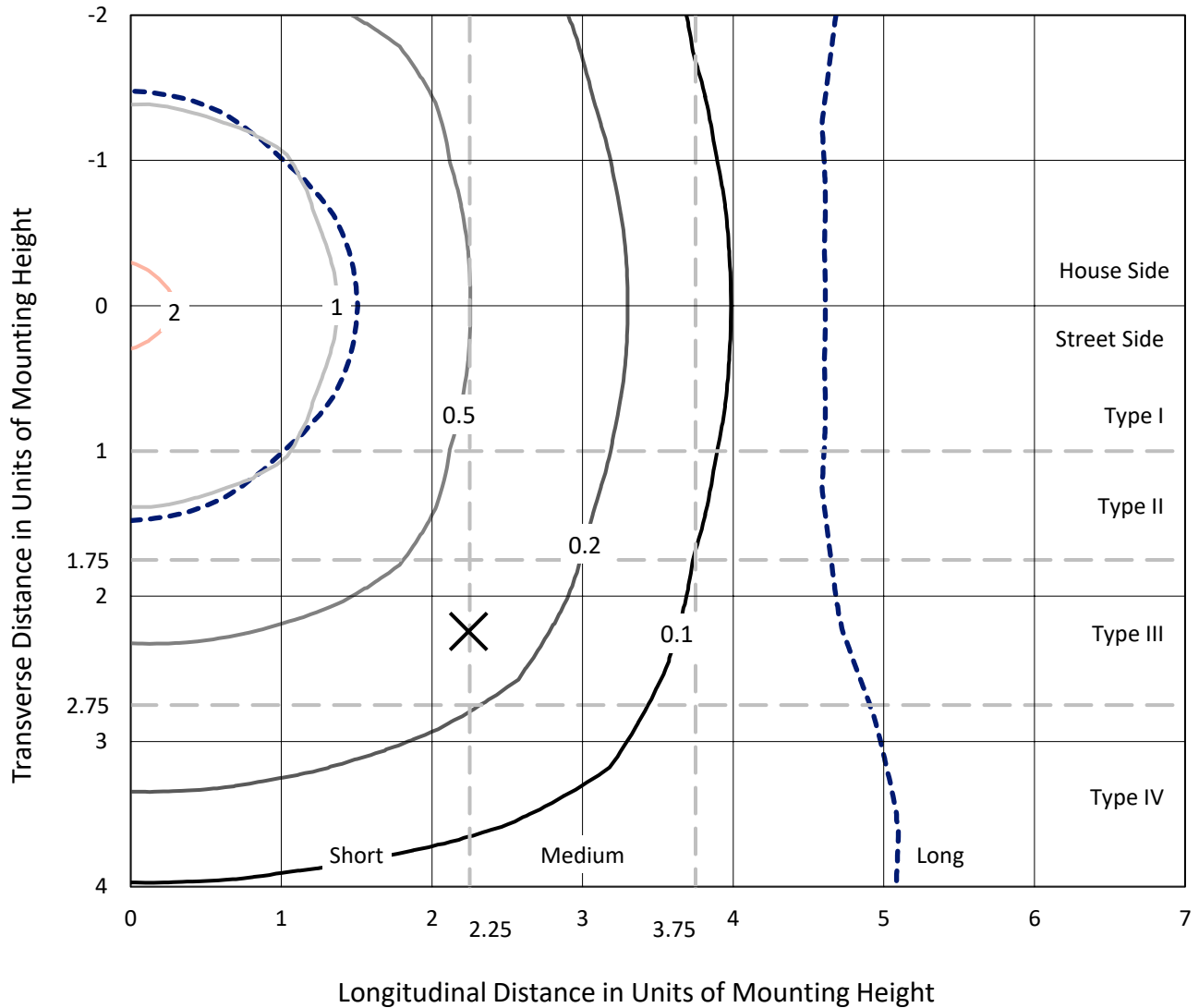
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

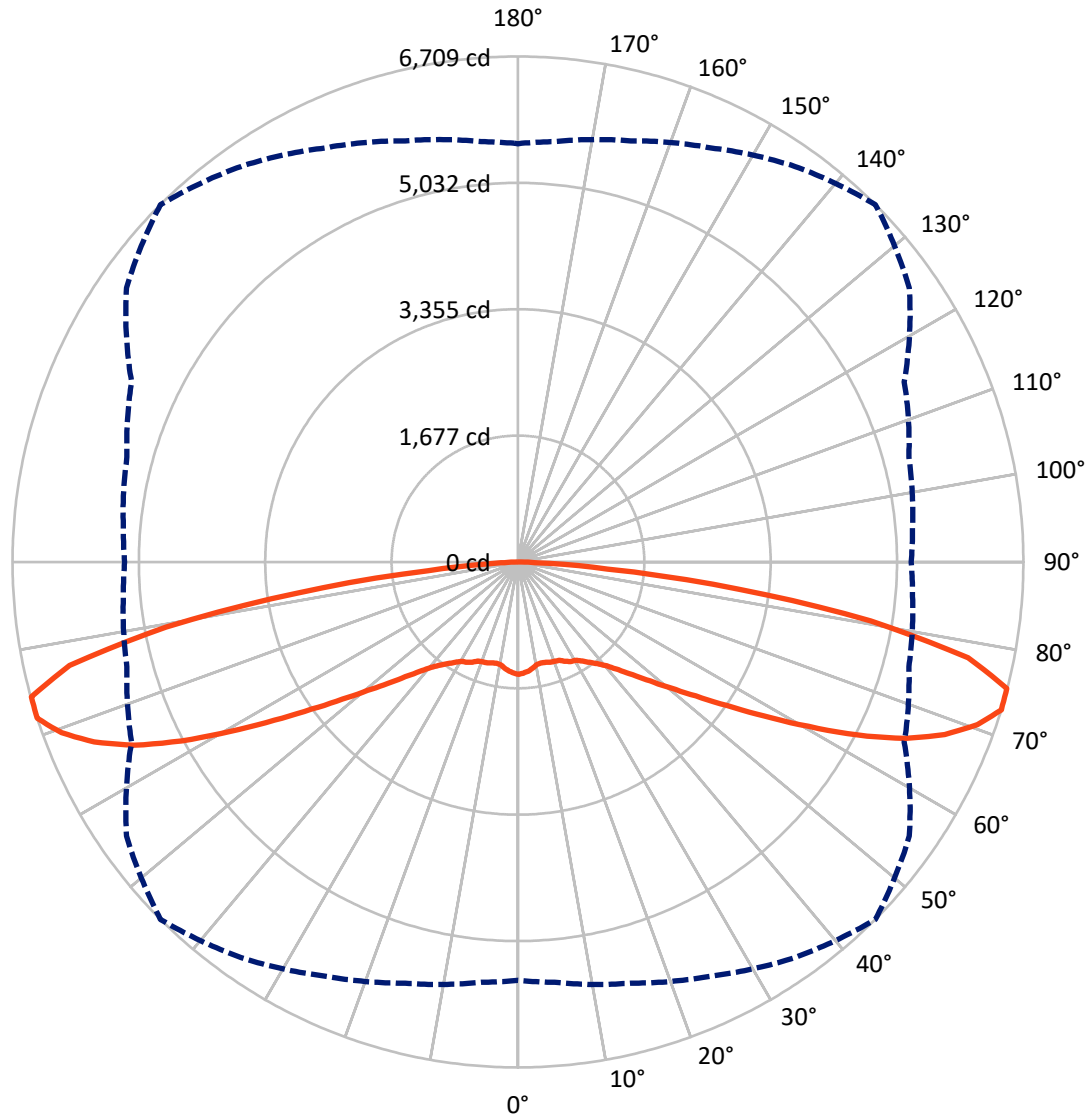
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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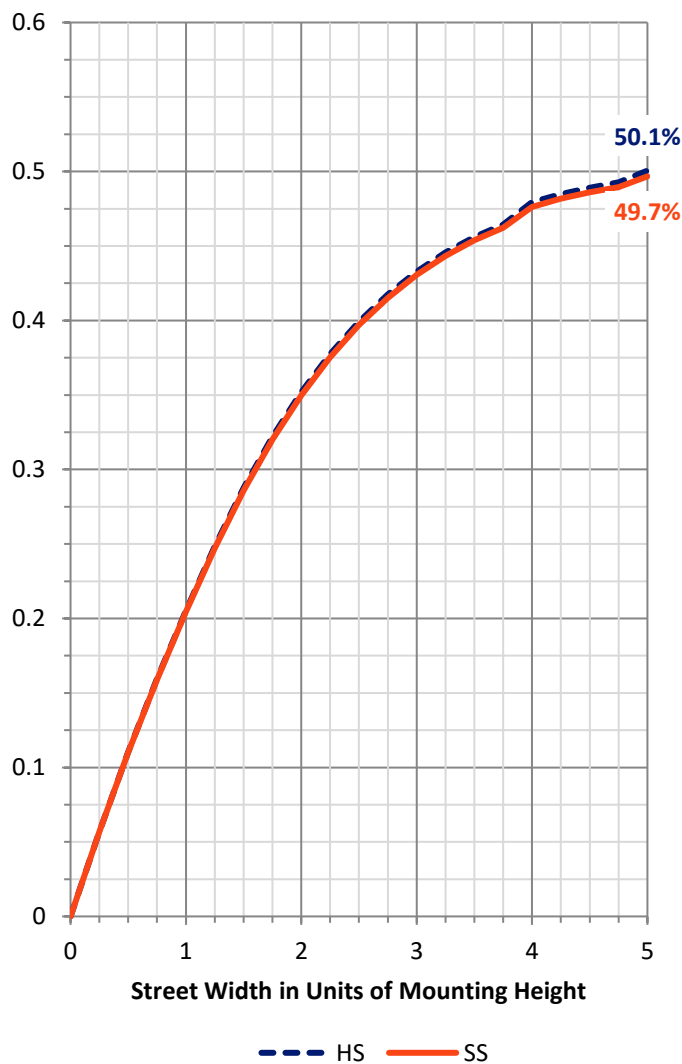
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9024.0	0.0	9024.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9024.0	0.0	9024.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18048.0	0.0	18048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	0.8
10°-20°	397.5	2.2
20°-30°	675.5	3.7
30°-40°	1030.3	5.7
40°-50°	1696.4	9.4
50°-60°	2962.5	16.4
60°-70°	4966.7	27.5
70°-80°	5315.3	29.5
80°-90°	866.9	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°	18048.0	100.0
0°-180°	18048.0	100.0

Coefficient of Utilization



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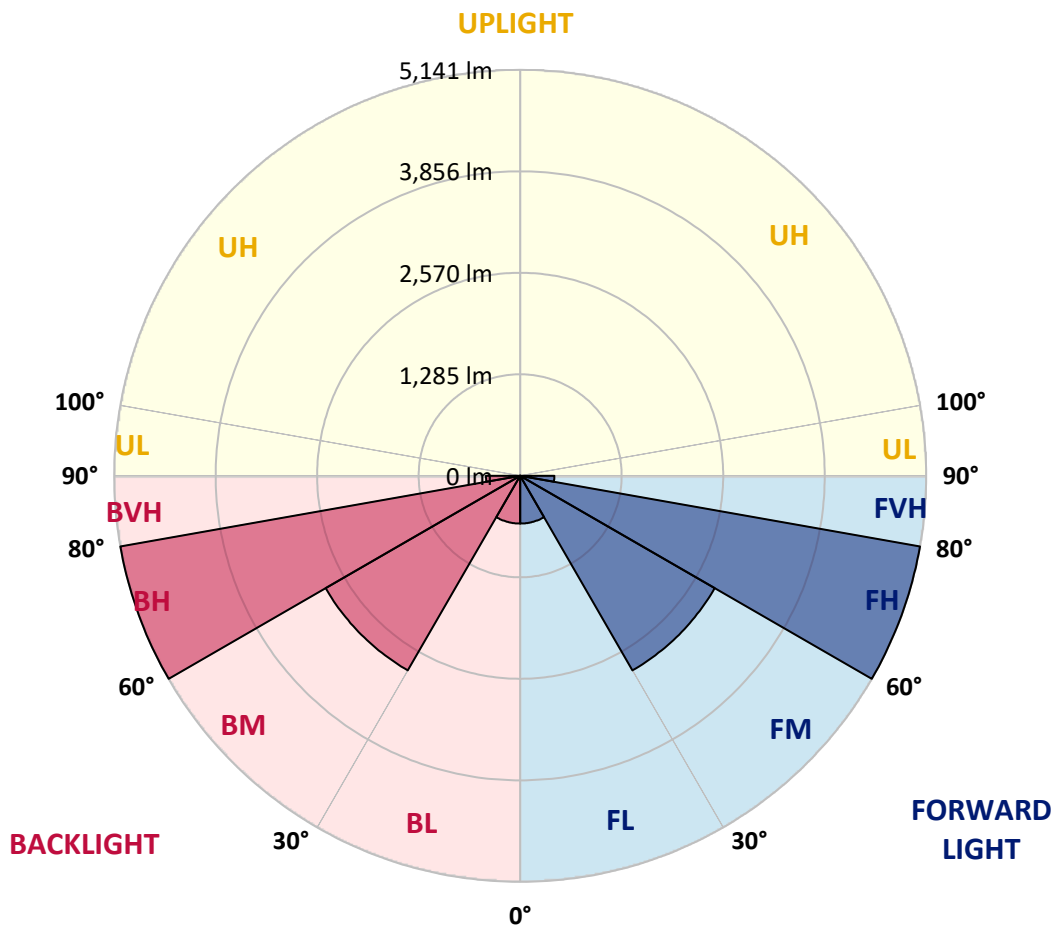
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.0	3.4			
FM (30°-60°)	2844.6	15.8			
FH (60°-80°)	5141.0	28.5			G3/7500
FVH (80°-90°)	433.5	2.4			G3/500
BL (0°-30°)	605.0	3.4	B2/1000		
BM (30°-60°)	2844.6	15.8	B3/5000		
BH (60°-80°)	5141.0	28.5	B5		G3/7500
BVH (80°-90°)	433.5	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1493.5	1493.5	1493.5	1493.5	1493.5	1493.5	1493.5	1493.5	1493.5	1493.5	1493.5
2.5°	1484.3	1484.3	1484.3	1482.0	1477.4	1475.1	1470.4	1472.7	1472.7	1472.7	1472.7
5°	1465.8	1465.8	1463.5	1461.2	1456.6	1454.3	1449.7	1454.3	1454.3	1454.3	1454.3
7.5°	1431.3	1433.6	1433.6	1431.3	1424.3	1422.0	1415.1	1417.4	1417.4	1419.7	1417.4
10°	1412.8	1412.8	1410.5	1399.0	1387.5	1382.9	1380.6	1387.5	1394.4	1401.3	1401.3
12.5°	1412.8	1412.8	1408.2	1389.8	1373.6	1373.6	1373.6	1382.9	1396.7	1410.5	1412.8
15°	1419.7	1419.7	1410.5	1389.8	1380.6	1382.9	1382.9	1392.1	1408.2	1426.7	1429.0
17.5°	1424.3	1424.3	1412.8	1392.1	1392.1	1399.0	1394.4	1401.3	1417.4	1438.2	1440.5
20°	1431.3	1431.3	1415.1	1399.0	1399.0	1405.9	1405.9	1412.8	1426.7	1447.4	1449.7
22.5°	1445.1	1442.8	1426.7	1412.8	1412.8	1417.4	1422.0	1431.3	1442.8	1461.2	1465.8
25°	1461.2	1461.2	1447.4	1445.1	1449.7	1461.2	1458.9	1456.6	1461.2	1477.4	1484.3
27.5°	1470.4	1470.4	1461.2	1468.1	1486.6	1495.8	1484.3	1475.1	1475.1	1491.2	1493.5
30°	1500.4	1498.1	1488.9	1493.5	1509.6	1514.2	1507.3	1495.8	1502.7	1521.1	1523.5
32.5°	1551.1	1551.1	1537.3	1537.3	1548.8	1567.2	1544.2	1537.3	1546.5	1567.2	1569.5
35°	1629.5	1629.5	1611.0	1601.8	1611.0	1636.4	1601.8	1599.5	1615.6	1638.7	1641.0
37.5°	1728.6	1728.6	1717.1	1694.0	1696.3	1712.4	1682.5	1680.2	1710.1	1735.5	1735.5
40°	1853.0	1860.0	1848.4	1820.8	1811.6	1813.9	1790.8	1793.1	1827.7	1857.6	1857.6
42.5°	2007.5	2012.1	1993.6	1972.9	1961.4	1954.4	1931.4	1936.0	1977.5	2016.7	2016.7
45°	2194.1	2196.4	2178.0	2152.7	2138.8	2134.2	2111.2	2122.7	2168.8	2210.3	2208.0
47.5°	2403.9	2406.2	2387.7	2362.4	2353.2	2360.1	2337.0	2337.0	2378.5	2413.1	2408.5
50°	2641.3	2645.9	2625.1	2613.6	2606.7	2625.1	2597.5	2572.1	2599.8	2634.4	2629.7
52.5°	2904.0	2915.5	2901.7	2906.3	2931.7	2954.7	2908.6	2853.3	2867.1	2890.2	2883.3
55°	3222.1	3235.9	3240.5	3256.6	3323.5	3362.7	3286.6	3194.4	3187.5	3189.8	3178.3
57.5°	3579.3	3588.5	3618.5	3655.4	3793.7	3855.9	3736.0	3577.0	3526.3	3496.3	3489.4
60°	3938.9	3955.0	4028.7	4104.8	4316.8	4429.8	4245.4	3978.0	3869.7	3814.4	3802.9
62.5°	4300.7	4333.0	4452.8	4581.9	4890.7	5059.0	4775.5	4388.3	4231.6	4162.4	4144.0
65°	4720.2	4759.4	4904.6	5068.2	5411.6	5649.0	5305.6	4812.4	4644.1	4551.9	4528.9
67.5°	5211.1	5252.6	5370.1	5552.2	5877.2	6109.9	5805.7	5245.7	5026.7	4909.2	4890.7
70°	5614.4	5651.3	5778.1	5962.4	6204.4	6469.5	6179.1	5591.4	5393.2	5310.2	5298.7
72.5°	5552.2	5600.6	5787.3	6063.9	6409.6	6709.2	6342.7	5658.2	5372.4	5257.2	5220.3
75°	4849.2	4902.2	5123.5	5623.6	6255.2	6702.3	6105.3	5213.4	4876.9	4780.1	4761.7
77.5°	3210.5	3261.3	3634.6	4422.9	5462.3	6107.6	5388.6	4367.5	3825.9	3593.1	3579.3
80°	1297.6	1362.1	1719.4	2556.0	3872.0	4747.8	3996.5	2795.7	1885.3	1521.1	1447.4
82.5°	301.9	359.5	523.2	942.7	1982.1	2957.0	2155.0	1044.1	606.2	431.0	387.2
85°	126.8	129.1	223.6	306.5	620.0	1193.9	705.3	380.3	308.8	225.9	221.3
87.5°	48.4	50.7	108.3	129.1	198.2	225.9	239.7	195.9	182.1	112.9	108.3
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)