

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: P399542

Luminaire Tested: **ARCH-L-PA3-160-722-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399542
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-PA3-160-722-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18890 lumens
Efficiency: N/A
Efficacy: 116.6 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

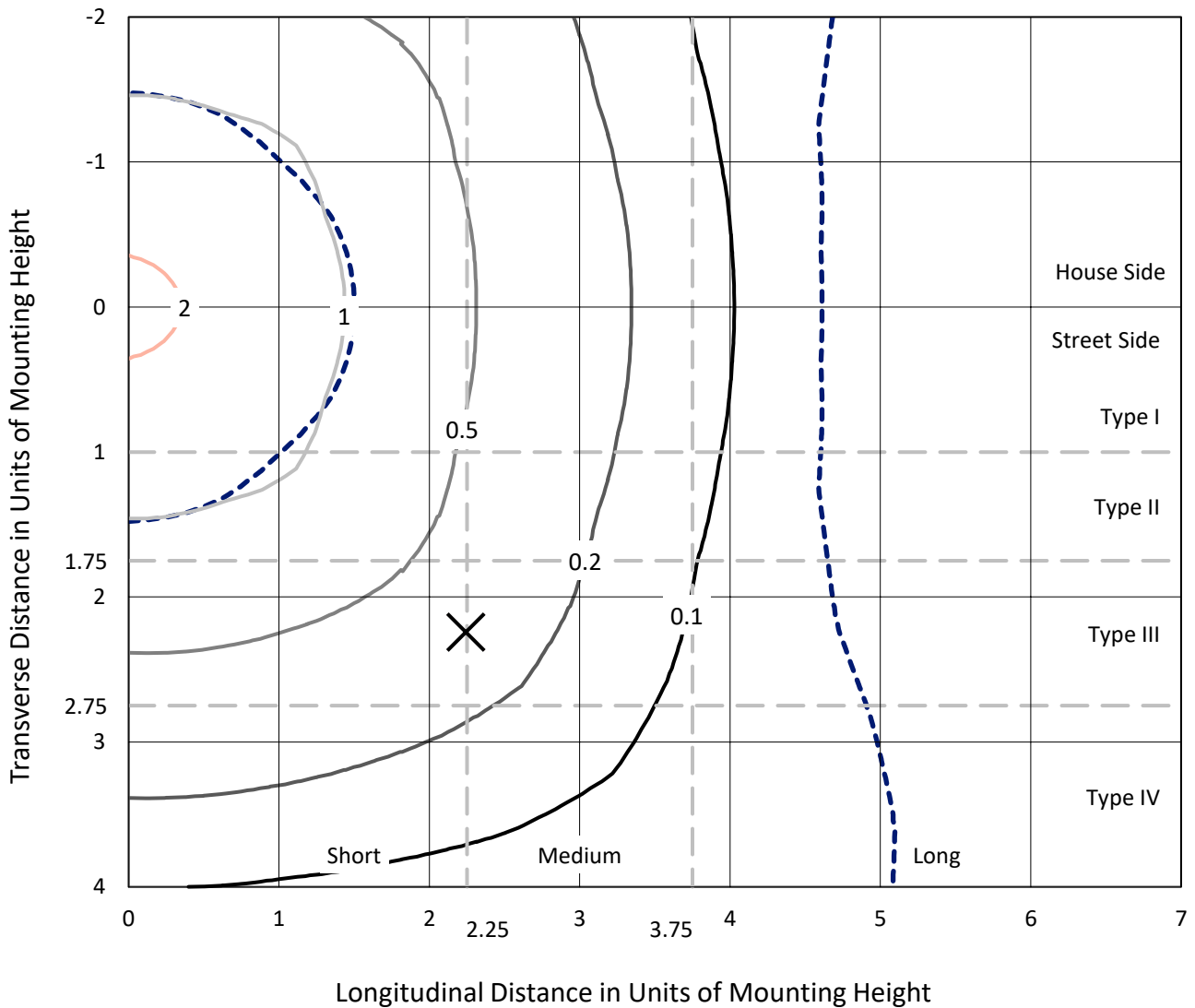
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

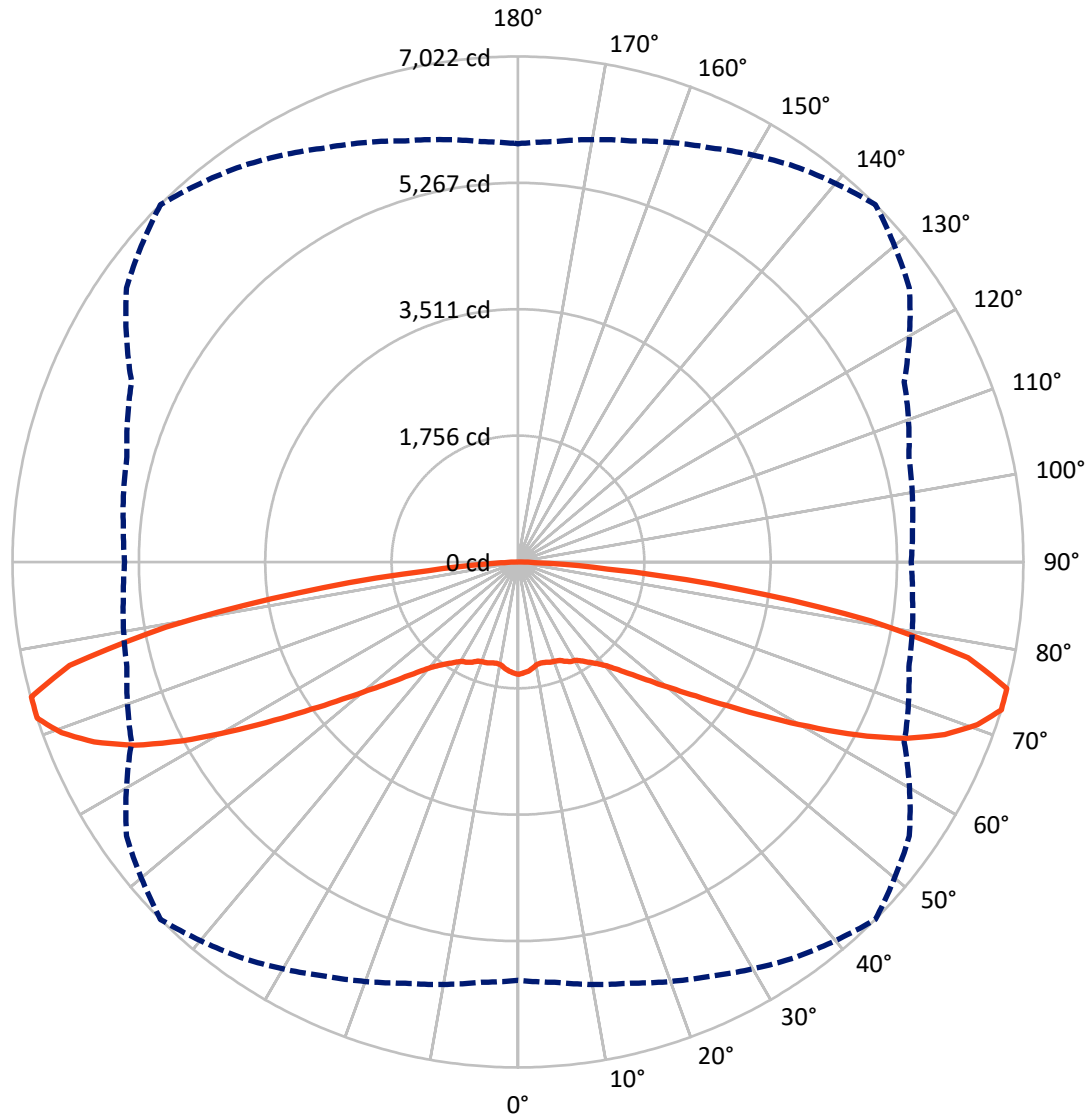
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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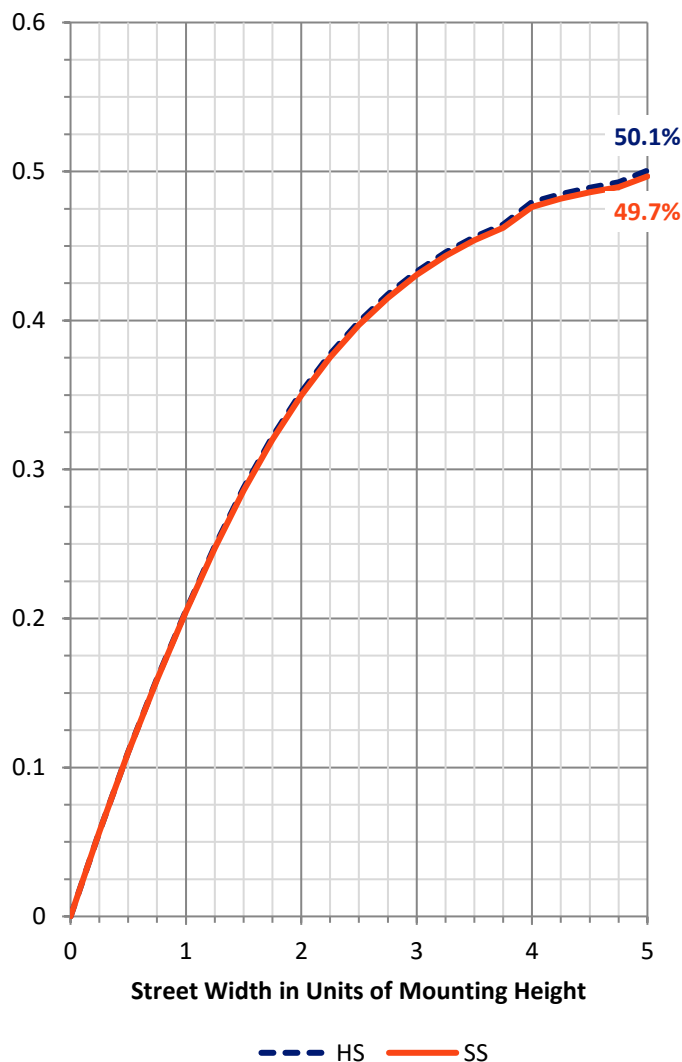
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9445.0	0.0	9445.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9445.0	0.0	9445.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18890.0	0.0	18890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	0.8
10°-20°	416.1	2.2
20°-30°	707.0	3.7
30°-40°	1078.3	5.7
40°-50°	1775.6	9.4
50°-60°	3100.7	16.4
60°-70°	5198.4	27.5
70°-80°	5563.3	29.5
80°-90°	907.4	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°	18890.0	100.0
0°-180°	18890.0	100.0

Coefficient of Utilization



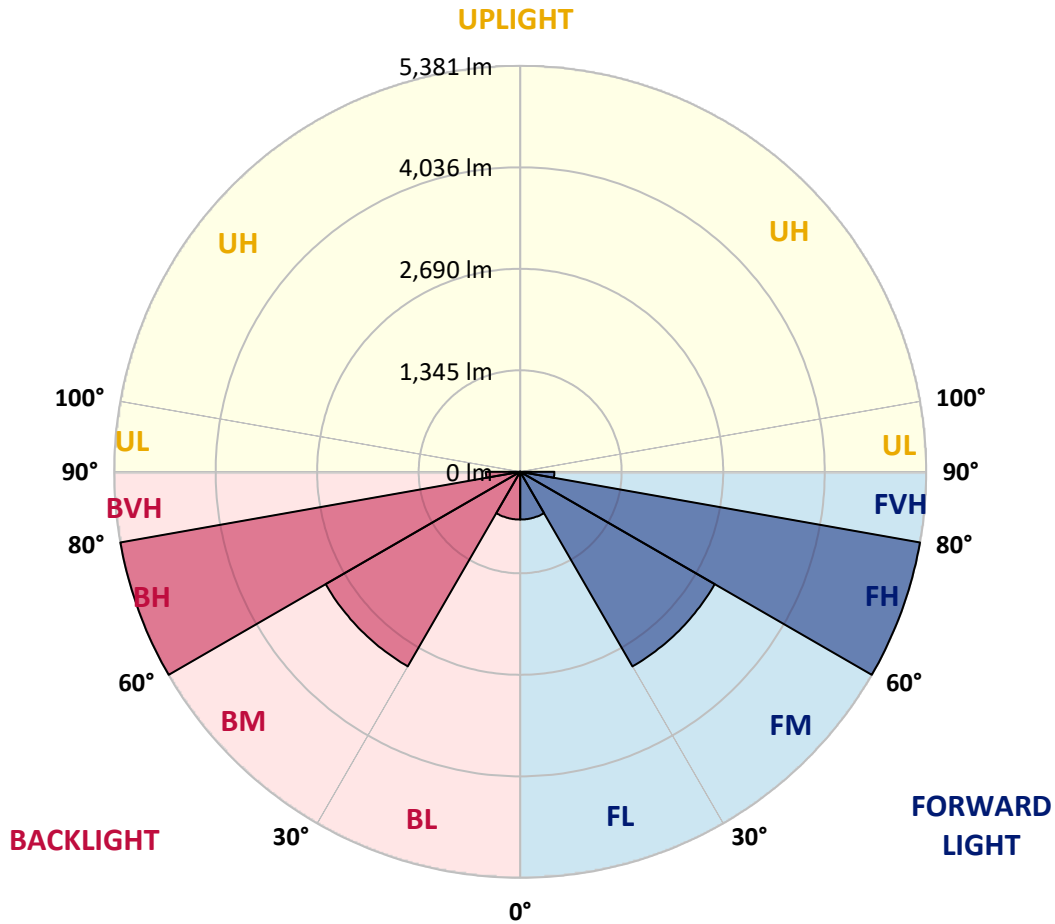
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.2	3.4			
FM (30°-60°)	2977.3	15.8			
FH (60°-80°)	5380.8	28.5			G3/7500
FVH (80°-90°)	453.7	2.4			G3/500
BL (0°-30°)	633.2	3.4	B2/1000		
BM (30°-60°)	2977.3	15.8	B3/5000		
BH (60°-80°)	5380.8	28.5	B5		G3/7500
BVH (80°-90°)	453.7	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2
2.5°	1553.5	1553.5	1553.5	1551.1	1546.3	1543.9	1539.0	1541.5	1541.5	1541.5	1541.5
5°	1534.2	1534.2	1531.8	1529.4	1524.6	1522.2	1517.3	1522.2	1522.2	1522.2	1522.2
7.5°	1498.0	1500.4	1500.4	1498.0	1490.8	1488.4	1481.2	1483.6	1483.6	1486.0	1483.6
10°	1478.7	1478.7	1476.3	1464.3	1452.2	1447.4	1445.0	1452.2	1459.4	1466.7	1466.7
12.5°	1478.7	1478.7	1473.9	1454.6	1437.7	1437.7	1437.7	1447.4	1461.9	1476.3	1478.7
15°	1486.0	1486.0	1476.3	1454.6	1445.0	1447.4	1447.4	1457.0	1473.9	1493.2	1495.6
17.5°	1490.8	1490.8	1478.7	1457.0	1457.0	1464.3	1459.4	1466.7	1483.6	1505.3	1507.7
20°	1498.0	1498.0	1481.2	1464.3	1464.3	1471.5	1471.5	1478.7	1493.2	1514.9	1517.3
22.5°	1512.5	1510.1	1493.2	1478.7	1478.7	1483.6	1488.4	1498.0	1510.1	1529.4	1534.2
25°	1529.4	1529.4	1514.9	1512.5	1517.3	1529.4	1527.0	1524.6	1529.4	1546.3	1553.5
27.5°	1539.0	1539.0	1529.4	1536.6	1555.9	1565.6	1553.5	1543.9	1543.9	1560.8	1563.2
30°	1570.4	1568.0	1558.3	1563.2	1580.1	1584.9	1577.6	1565.6	1572.8	1592.1	1594.5
32.5°	1623.5	1623.5	1609.0	1609.0	1621.1	1640.4	1616.2	1609.0	1618.7	1640.4	1642.8
35°	1705.5	1705.5	1686.2	1676.5	1686.2	1712.7	1676.5	1674.1	1691.0	1715.1	1717.6
37.5°	1809.2	1809.2	1797.2	1773.0	1775.5	1792.3	1761.0	1758.6	1789.9	1816.5	1816.5
40°	1939.5	1946.7	1934.7	1905.7	1896.1	1898.5	1874.4	1876.8	1913.0	1944.3	1944.3
42.5°	2101.1	2105.9	2086.6	2064.9	2052.9	2045.6	2021.5	2026.3	2069.8	2110.8	2110.8
45°	2296.5	2298.9	2279.6	2253.1	2238.6	2233.8	2209.7	2221.7	2270.0	2313.4	2311.0
47.5°	2516.0	2518.4	2499.1	2472.6	2463.0	2470.2	2446.1	2446.1	2489.5	2525.7	2520.9
50°	2764.5	2769.3	2747.6	2735.5	2728.3	2747.6	2718.7	2692.1	2721.1	2757.3	2752.4
52.5°	3039.5	3051.6	3037.1	3041.9	3068.4	3092.6	3044.3	2986.4	3000.9	3025.0	3017.8
55°	3372.4	3386.9	3391.7	3408.6	3478.5	3519.5	3439.9	3343.4	3336.2	3338.6	3326.6
57.5°	3746.3	3755.9	3787.3	3825.9	3970.6	4035.8	3910.3	3743.9	3690.8	3659.5	3652.2
60°	4122.6	4139.5	4216.7	4296.3	4518.2	4636.4	4443.5	4163.6	4050.2	3992.4	3980.3
62.5°	4501.3	4535.1	4660.6	4795.6	5118.9	5295.0	4998.3	4593.0	4429.0	4356.6	4337.3
65°	4940.4	4981.4	5133.4	5304.6	5664.1	5912.5	5553.1	5036.9	4860.8	4764.3	4740.2
67.5°	5454.2	5497.6	5620.7	5811.2	6151.4	6395.0	6076.6	5490.4	5261.2	5138.2	5118.9
70°	5876.4	5915.0	6047.6	6240.6	6493.9	6771.3	6467.4	5852.2	5644.8	5557.9	5545.9
72.5°	5811.2	5861.9	6057.3	6346.8	6708.6	7022.2	6638.6	5922.2	5623.1	5502.4	5463.9
75°	5075.5	5131.0	5362.5	5886.0	6547.0	7015.0	6390.2	5456.6	5104.4	5003.1	4983.8
77.5°	3360.3	3413.4	3804.2	4629.2	5717.1	6392.6	5640.0	4571.3	4004.4	3760.8	3746.3
80°	1358.1	1425.7	1799.6	2675.2	4052.7	4969.3	4182.9	2926.1	1973.3	1592.1	1514.9
82.5°	316.0	376.3	547.6	986.6	2074.6	3095.0	2255.5	1092.8	634.4	451.1	405.3
85°	132.7	135.1	234.0	320.8	648.9	1249.6	738.2	398.0	323.2	236.4	231.6
87.5°	50.7	53.1	113.4	135.1	207.5	236.4	250.9	205.0	190.6	118.2	113.4
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)