

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: P399740

Luminaire Tested: **ARCH-L-PA3-180-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399740
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-PA3-180-827-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20270 lumens
Efficiency: N/A
Efficacy: 112.0 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

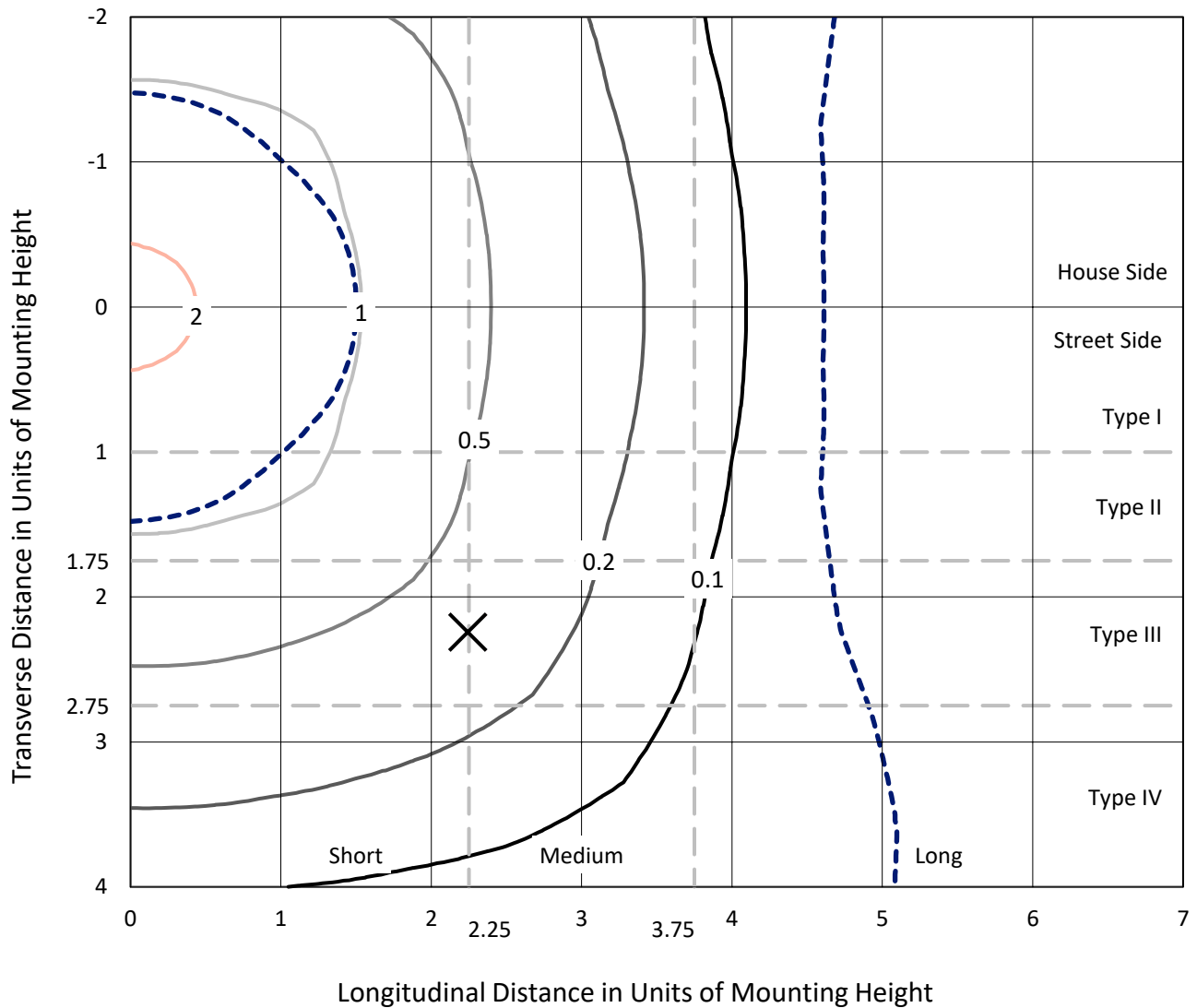
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

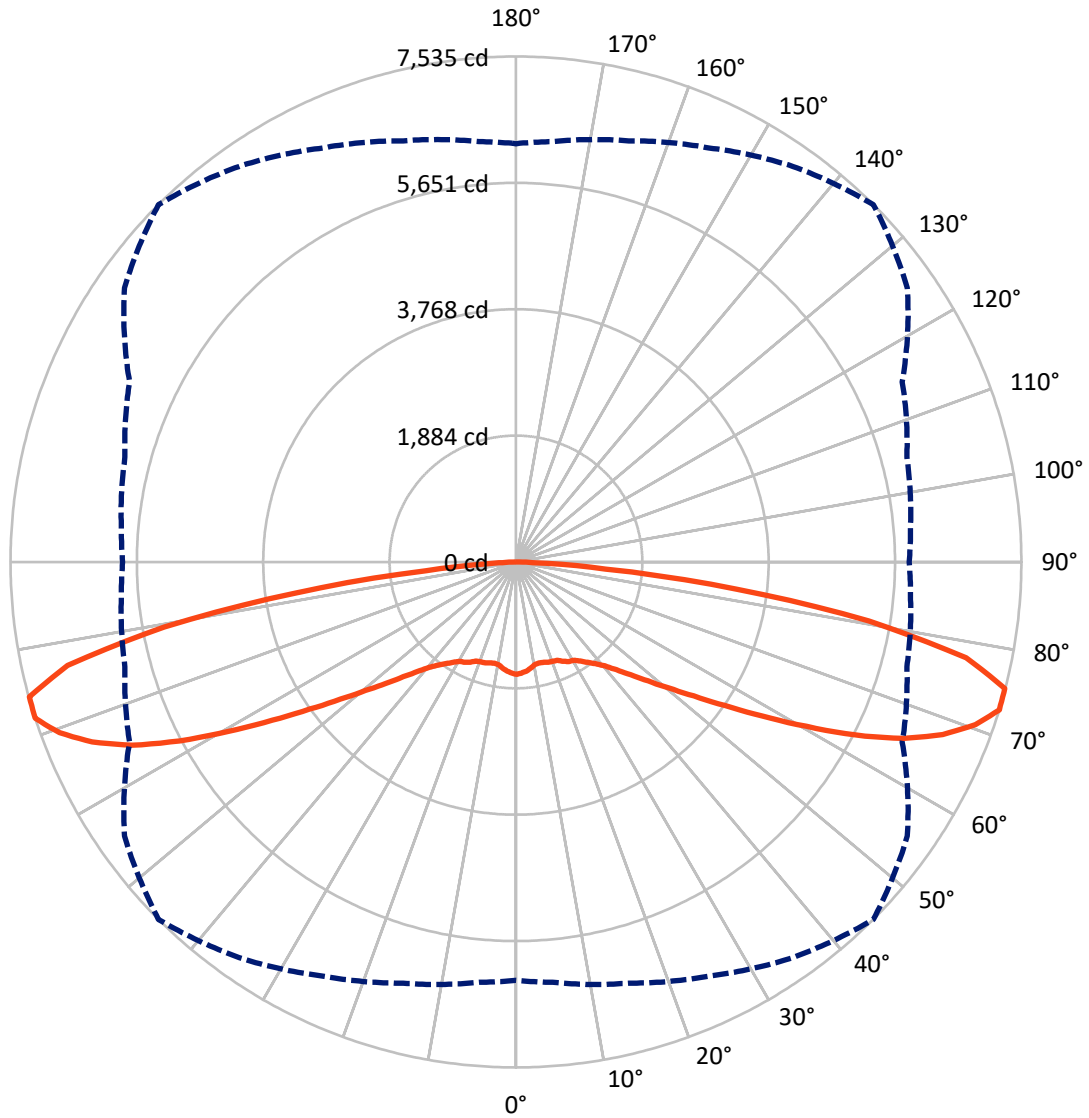
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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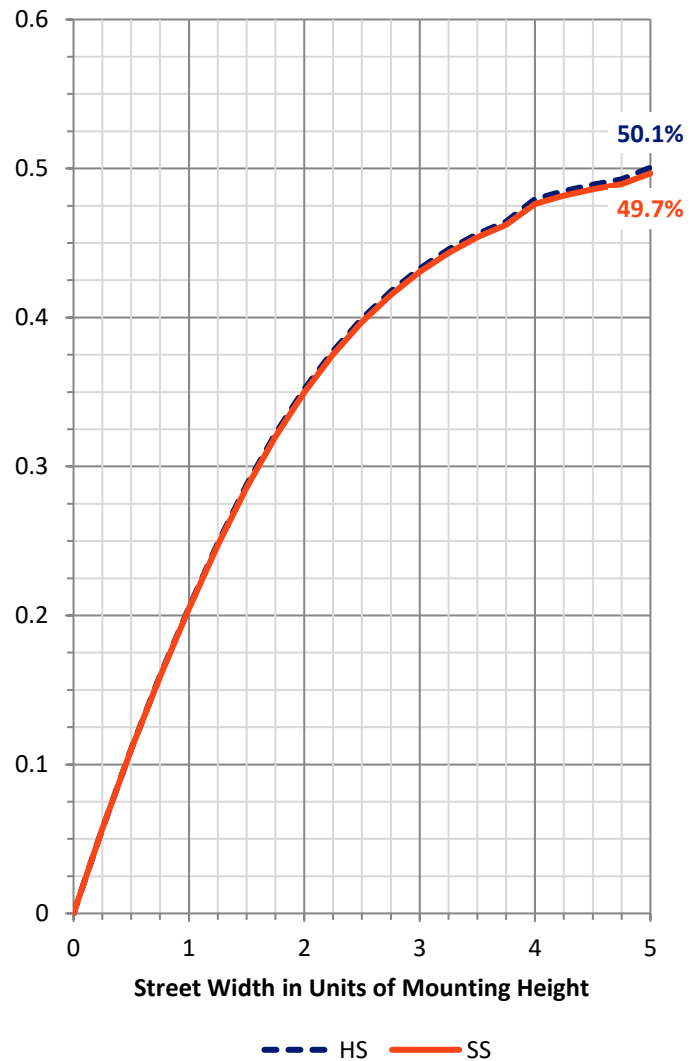
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10135.0	0.0	10135.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10135.0	0.0	10135.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20270.0	0.0	20270.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	0.8
10°-20°	446.5	2.2
20°-30°	758.6	3.7
30°-40°	1157.1	5.7
40°-50°	1905.3	9.4
50°-60°	3327.2	16.4
60°-70°	5578.1	27.5
70°-80°	5969.7	29.5
80°-90°	973.7	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°	20270.0	100.0
0°-180°	20270.0	100.0



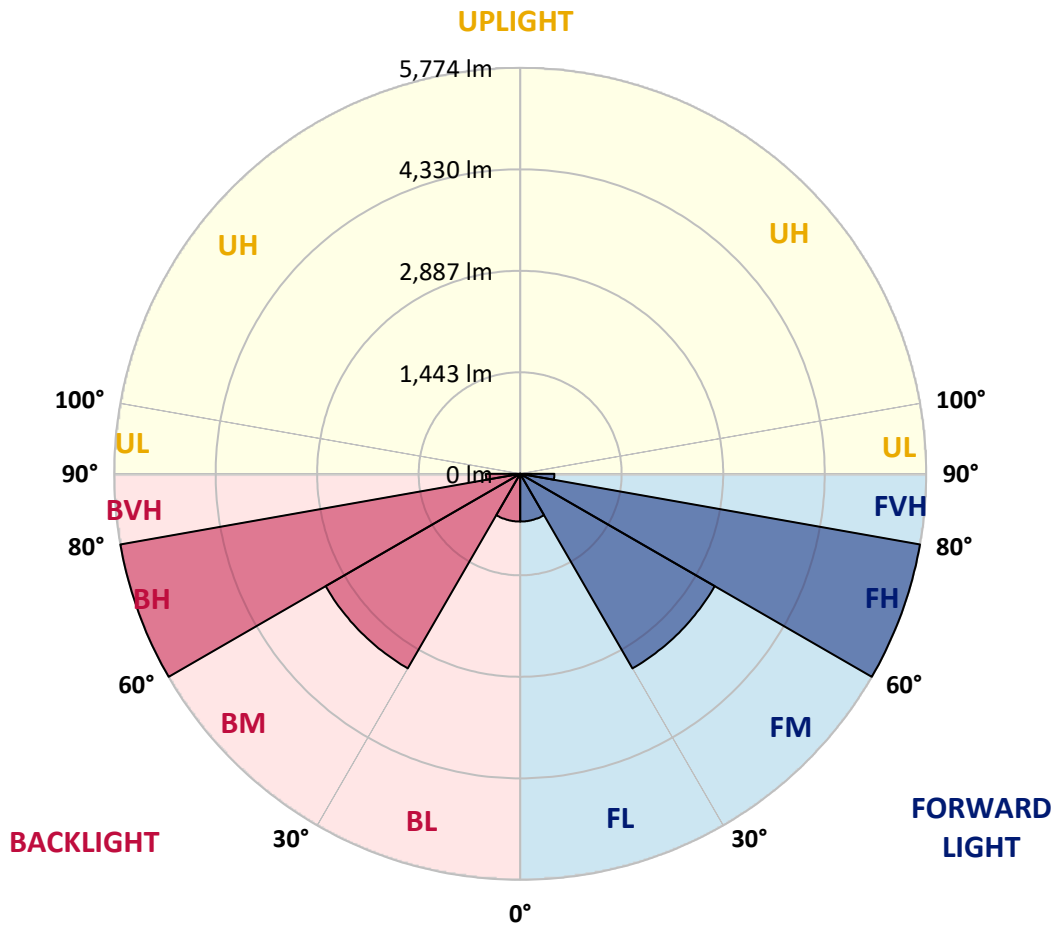
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.4	3.4			
FM (30°-60°)	3194.8	15.8			
FH (60°-80°)	5773.9	28.5			G3/7500
FVH (80°-90°)	486.8	2.4			G3/500
BL (0°-30°)	679.4	3.4	B2/1000		
BM (30°-60°)	3194.8	15.8	B3/5000		
BH (60°-80°)	5773.9	28.5	B5		G3/7500
BVH (80°-90°)	486.8	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°	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4	1677.4
2.5°	1667.0	1667.0	1667.0	1664.4	1659.2	1656.7	1651.5	1654.1	1654.1	1654.1	1654.1
5°	1646.3	1646.3	1643.7	1641.1	1635.9	1633.4	1628.2	1633.4	1633.4	1633.4	1633.4
7.5°	1607.5	1610.1	1610.1	1607.5	1599.7	1597.1	1589.4	1591.9	1591.9	1594.5	1591.9
10°	1586.8	1586.8	1584.2	1571.2	1558.3	1553.1	1550.5	1558.3	1566.1	1573.8	1573.8
12.5°	1586.8	1586.8	1581.6	1560.9	1542.8	1542.8	1542.8	1553.1	1568.6	1584.2	1586.8
15°	1594.5	1594.5	1584.2	1560.9	1550.5	1553.1	1553.1	1563.5	1581.6	1602.3	1604.9
17.5°	1599.7	1599.7	1586.8	1563.5	1563.5	1571.2	1566.1	1573.8	1591.9	1615.2	1617.8
20°	1607.5	1607.5	1589.4	1571.2	1571.2	1579.0	1579.0	1586.8	1602.3	1625.6	1628.2
22.5°	1623.0	1620.4	1602.3	1586.8	1586.8	1591.9	1597.1	1607.5	1620.4	1641.1	1646.3
25°	1641.1	1641.1	1625.6	1623.0	1628.2	1641.1	1638.5	1635.9	1641.1	1659.2	1667.0
27.5°	1651.5	1651.5	1641.1	1648.9	1669.6	1680.0	1667.0	1656.7	1656.7	1674.8	1677.4
30°	1685.1	1682.5	1672.2	1677.4	1695.5	1700.7	1692.9	1680.0	1687.7	1708.4	1711.0
32.5°	1742.1	1742.1	1726.5	1726.5	1739.5	1760.2	1734.3	1726.5	1736.9	1760.2	1762.8
35°	1830.1	1830.1	1809.4	1799.0	1809.4	1837.9	1799.0	1796.4	1814.6	1840.4	1843.0
37.5°	1941.4	1941.4	1928.5	1902.6	1905.2	1923.3	1889.6	1887.0	1920.7	1949.2	1949.2
40°	2081.2	2088.9	2076.0	2044.9	2034.6	2037.2	2011.3	2013.9	2052.7	2086.4	2086.4
42.5°	2254.6	2259.8	2239.1	2215.8	2202.8	2195.1	2169.2	2174.4	2221.0	2265.0	2265.0
45°	2464.3	2466.9	2446.2	2417.7	2402.2	2397.0	2371.1	2384.0	2435.8	2482.4	2479.8
47.5°	2699.8	2702.4	2681.7	2653.2	2642.9	2650.7	2624.8	2624.8	2671.4	2710.2	2705.0
50°	2966.5	2971.6	2948.3	2935.4	2927.6	2948.3	2917.3	2888.8	2919.9	2958.7	2953.5
52.5°	3261.5	3274.5	3259.0	3264.1	3292.6	3318.5	3266.7	3204.6	3220.1	3246.0	3238.2
55°	3618.8	3634.3	3639.5	3657.6	3732.7	3776.7	3691.2	3587.7	3579.9	3582.5	3569.6
57.5°	4020.0	4030.3	4064.0	4105.4	4260.7	4330.6	4196.0	4017.4	3960.4	3926.8	3919.0
60°	4423.8	4441.9	4524.7	4610.2	4848.3	4975.1	4768.1	4467.8	4346.1	4284.0	4271.1
62.5°	4830.2	4866.4	5001.0	5146.0	5492.9	5681.8	5363.4	4928.6	4752.5	4674.9	4654.2
65°	5301.3	5345.3	5508.4	5692.2	6077.9	6344.5	5958.8	5404.8	5215.9	5112.3	5086.5
67.5°	5852.7	5899.3	6031.3	6235.8	6600.7	6862.2	6520.5	5891.5	5645.6	5513.6	5492.9
70°	6305.7	6347.1	6489.4	6696.5	6968.3	7266.0	6939.8	6279.8	6057.2	5964.0	5951.0
72.5°	6235.8	6290.1	6499.8	6810.4	7198.7	7535.2	7123.6	6354.8	6033.9	5904.4	5863.0
75°	5446.3	5505.8	5754.3	6316.0	7025.3	7527.4	6857.0	5855.2	5477.3	5368.6	5347.9
77.5°	3605.8	3662.8	4082.1	4967.4	6134.8	6859.6	6052.0	4905.3	4297.0	4035.5	4020.0
80°	1457.3	1529.8	1931.0	2870.7	4348.7	5332.4	4488.5	3139.9	2117.4	1708.4	1625.6
82.5°	339.1	403.8	587.6	1058.7	2226.1	3321.1	2420.3	1172.6	680.8	484.1	434.9
85°	142.4	145.0	251.1	344.3	696.3	1340.9	792.1	427.1	346.9	253.7	248.5
87.5°	54.4	56.9	121.7	145.0	222.6	253.7	269.2	220.0	204.5	126.8	121.7
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)