

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: P399488

Luminaire Tested: **ARCH-L-PA3-150-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399488
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-PA3-150-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 22358 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

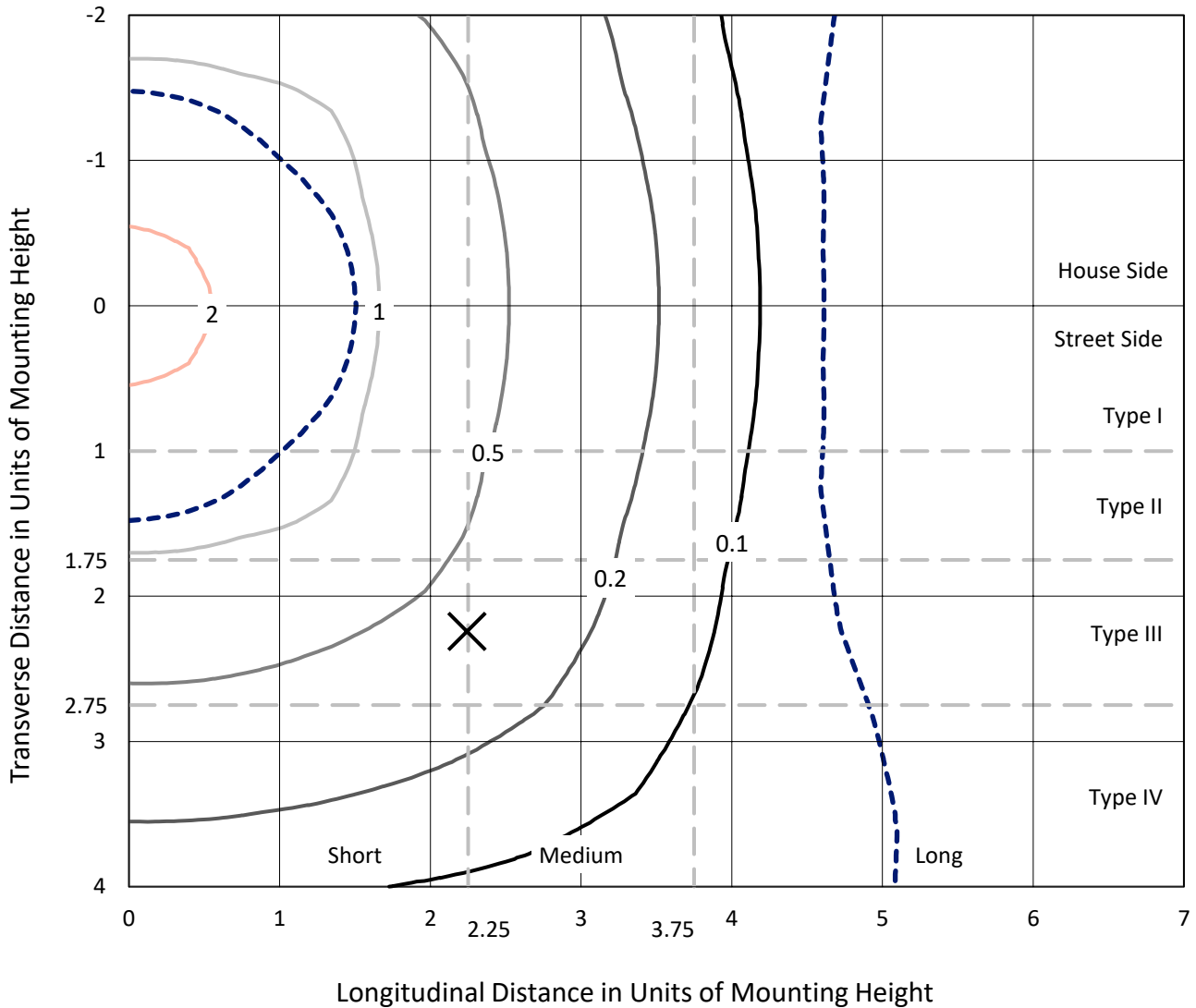
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

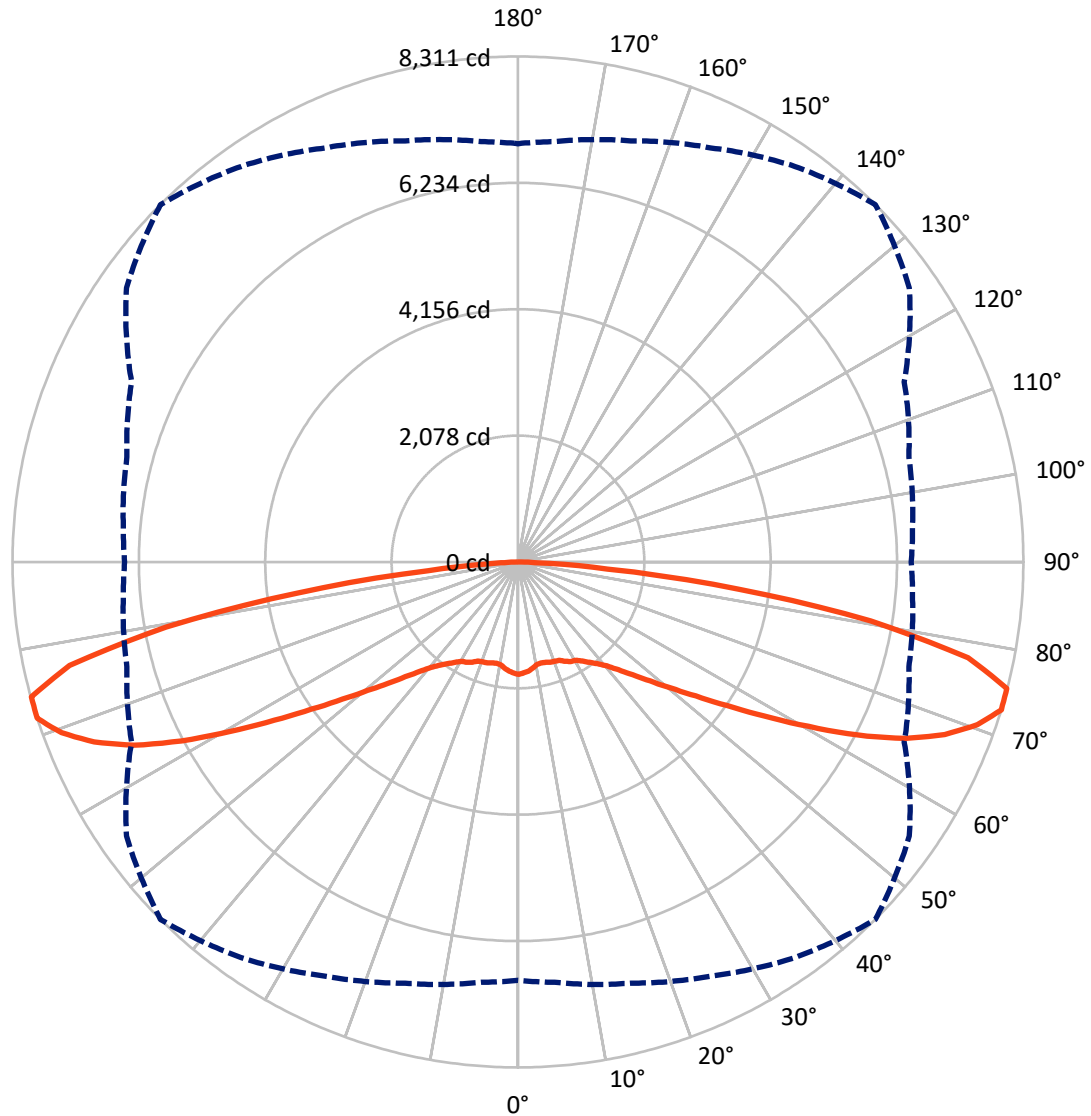
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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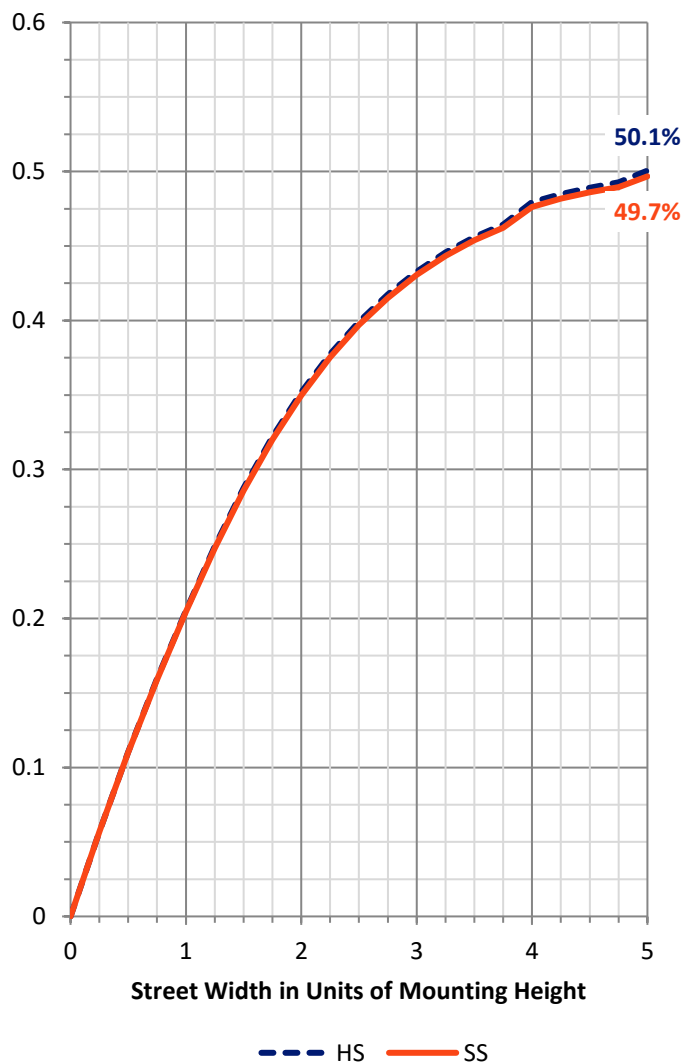
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11179.0	0.0	11179.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11179.0	0.0	11179.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22358.0	0.0	22358.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	0.8
10°-20°	492.5	2.2
20°-30°	836.8	3.7
30°-40°	1276.3	5.7
40°-50°	2101.5	9.4
50°-60°	3669.9	16.4
60°-70°	6152.7	27.5
70°-80°	6584.7	29.5
80°-90°	1074.0	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°	22358.0	100.0
0°-180°	22358.0	100.0



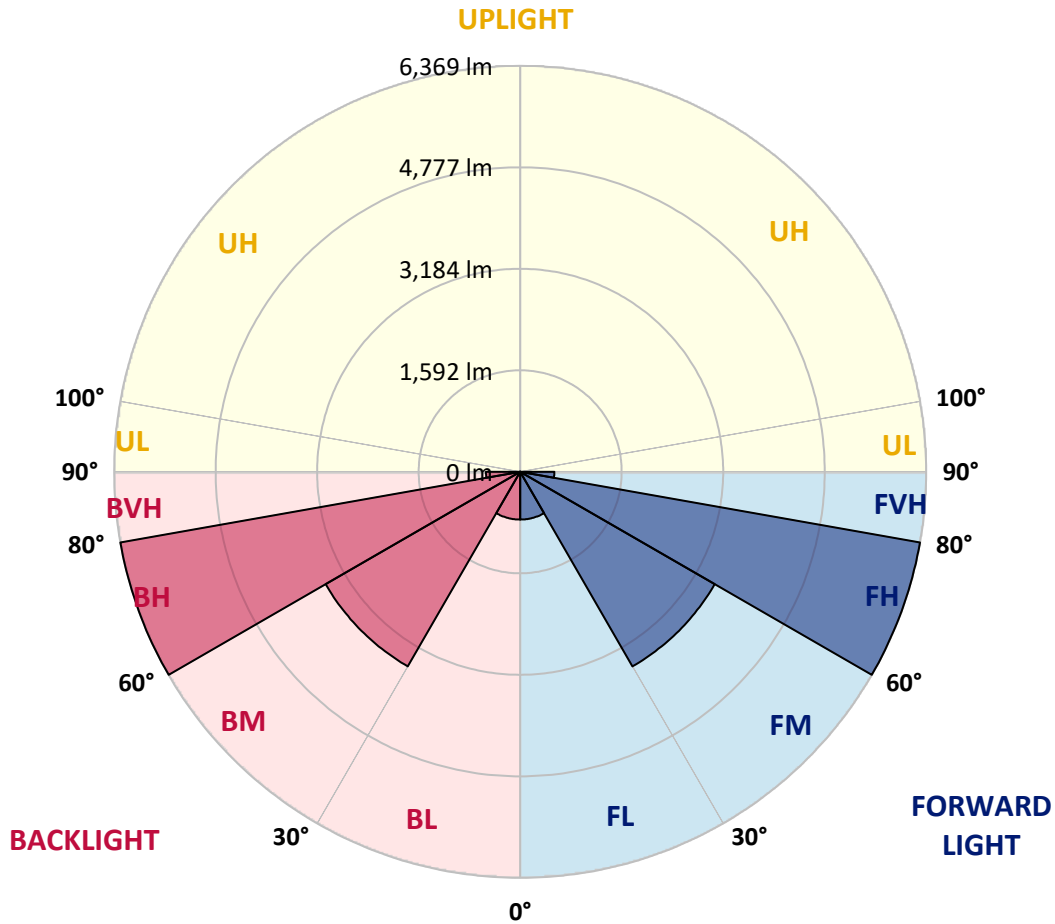
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.4	3.4			
FM (30°-60°)	3523.9	15.8			
FH (60°-80°)	6368.7	28.5			G3/7500
FVH (80°-90°)	537.0	2.4			G4/750
BL (0°-30°)	749.4	3.4	B2/1000		
BM (30°-60°)	3523.9	15.8	B3/5000		
BH (60°-80°)	6368.7	28.5	B5		G3/7500
BVH (80°-90°)	537.0	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1	1850.1
2.5°	1838.7	1838.7	1838.7	1835.9	1830.2	1827.3	1821.6	1824.5	1824.5	1824.5	1824.5
5°	1815.9	1815.9	1813.0	1810.2	1804.5	1801.6	1795.9	1801.6	1801.6	1801.6	1801.6
7.5°	1773.1	1775.9	1775.9	1773.1	1764.5	1761.6	1753.1	1755.9	1755.9	1758.8	1755.9
10°	1750.2	1750.2	1747.4	1733.1	1718.8	1713.1	1710.2	1718.8	1727.4	1735.9	1735.9
12.5°	1750.2	1750.2	1744.5	1721.7	1701.7	1701.7	1701.7	1713.1	1730.2	1747.4	1750.2
15°	1758.8	1758.8	1747.4	1721.7	1710.2	1713.1	1713.1	1724.5	1744.5	1767.3	1770.2
17.5°	1764.5	1764.5	1750.2	1724.5	1724.5	1733.1	1727.4	1735.9	1755.9	1781.6	1784.5
20°	1773.1	1773.1	1753.1	1733.1	1733.1	1741.7	1741.7	1750.2	1767.3	1793.0	1795.9
22.5°	1790.2	1787.3	1767.3	1750.2	1750.2	1755.9	1761.6	1773.1	1787.3	1810.2	1815.9
25°	1810.2	1810.2	1793.0	1790.2	1795.9	1810.2	1807.3	1804.5	1810.2	1830.2	1838.7
27.5°	1821.6	1821.6	1810.2	1818.7	1841.6	1853.0	1838.7	1827.3	1827.3	1847.3	1850.1
30°	1858.7	1855.9	1844.4	1850.1	1870.1	1875.8	1867.3	1853.0	1861.6	1884.4	1887.3
32.5°	1921.5	1921.5	1904.4	1904.4	1918.7	1941.5	1913.0	1904.4	1915.8	1941.5	1944.4
35°	2018.6	2018.6	1995.8	1984.3	1995.8	2027.2	1984.3	1981.5	2001.5	2030.0	2032.9
37.5°	2141.4	2141.4	2127.1	2098.5	2101.4	2121.4	2084.3	2081.4	2118.5	2149.9	2149.9
40°	2295.6	2304.1	2289.8	2255.6	2244.2	2247.0	2218.5	2221.3	2264.1	2301.3	2301.3
42.5°	2486.9	2492.6	2469.7	2444.0	2429.7	2421.2	2392.6	2398.3	2449.7	2498.3	2498.3
45°	2718.1	2721.0	2698.1	2666.7	2649.6	2643.9	2615.3	2629.6	2686.7	2738.1	2735.3
47.5°	2977.9	2980.8	2958.0	2926.5	2915.1	2923.7	2895.1	2895.1	2946.5	2989.4	2983.7
50°	3272.0	3277.7	3252.0	3237.8	3229.2	3252.0	3217.8	3186.4	3220.6	3263.5	3257.7
52.5°	3597.5	3611.8	3594.7	3600.4	3631.8	3660.3	3603.2	3534.7	3551.8	3580.4	3571.8
55°	3991.5	4008.7	4014.4	4034.4	4117.2	4165.7	4071.5	3957.3	3948.7	3951.6	3937.3
57.5°	4434.1	4445.5	4482.6	4528.3	4699.6	4776.7	4628.2	4431.2	4368.4	4331.3	4322.7
60°	4879.5	4899.5	4990.8	5085.1	5347.7	5487.6	5259.2	4928.0	4793.8	4725.3	4711.0
62.5°	5327.7	5367.7	5516.2	5676.1	6058.7	6267.1	5915.9	5436.2	5242.1	5156.4	5133.6
65°	5847.4	5895.9	6075.8	6278.5	6703.9	6998.0	6572.6	5961.6	5753.2	5639.0	5610.4
67.5°	6455.5	6506.9	6652.5	6878.1	7280.7	7569.1	7192.2	6498.4	6227.1	6081.5	6058.7
70°	6955.2	7000.9	7157.9	7386.3	7686.1	8014.5	7654.7	6926.6	6681.1	6578.3	6564.0
72.5°	6878.1	6938.1	7169.3	7511.9	7940.2	8311.4	7857.4	7009.4	6655.4	6512.6	6467.0
75°	6007.3	6072.9	6347.0	6966.6	7748.9	8302.8	7563.3	6458.4	6041.5	5921.6	5898.8
77.5°	3977.3	4040.1	4502.6	5479.1	6766.7	7566.2	6675.4	5410.5	4739.6	4451.2	4434.1
80°	1607.5	1687.4	2130.0	3166.4	4796.7	5881.6	4950.9	3463.3	2335.5	1884.4	1793.0
82.5°	374.0	445.4	648.1	1167.8	2455.4	3663.2	2669.6	1293.4	750.9	533.9	479.7
85°	157.0	159.9	277.0	379.7	768.0	1479.0	873.7	471.1	382.6	279.8	274.1
87.5°	60.0	62.8	134.2	159.9	245.5	279.8	296.9	242.7	225.6	139.9	134.2
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)