

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: P399821

Luminaire Tested: **ARCH-L-PA3-190-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399821
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-PA3-190-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22675 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

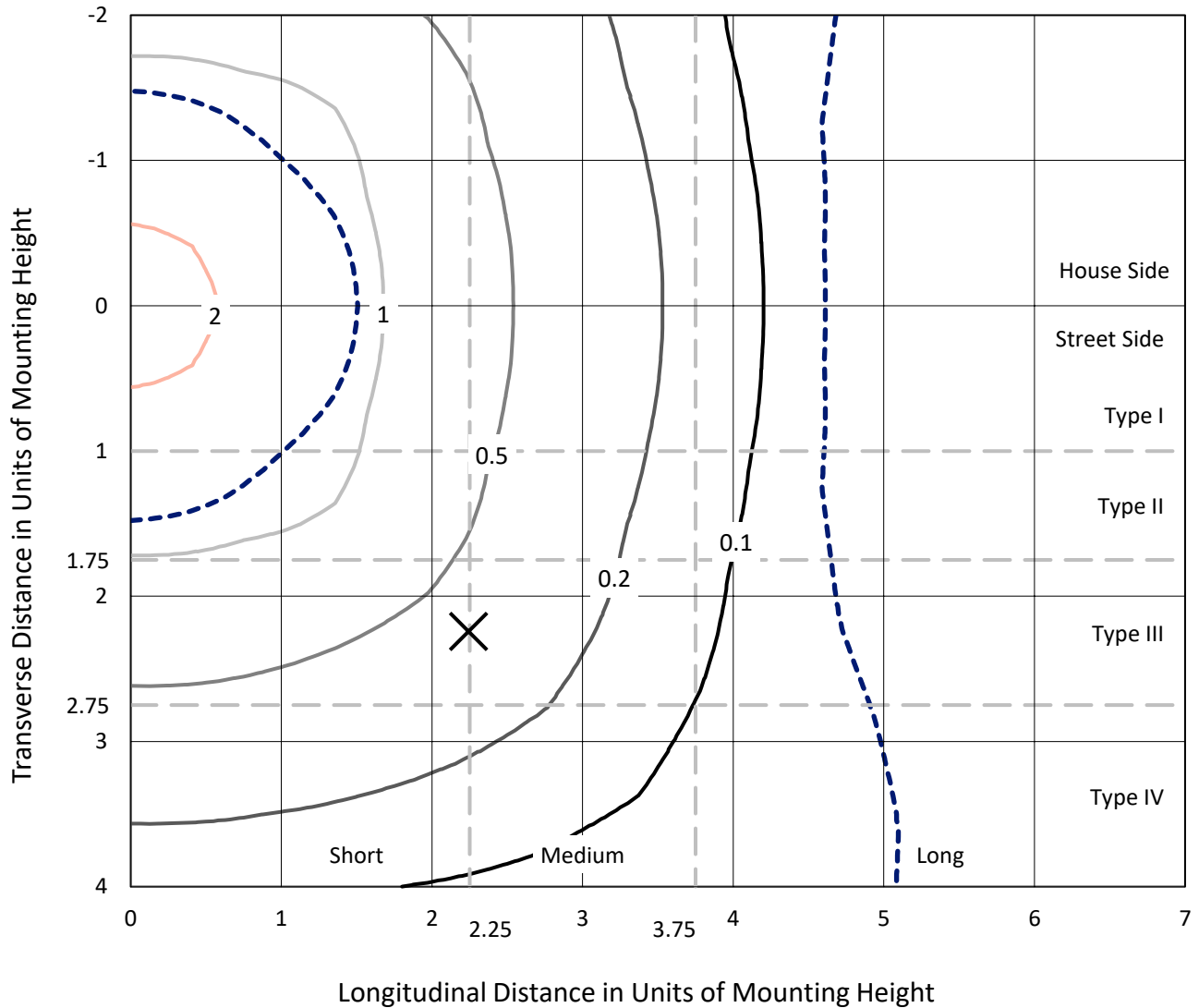
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

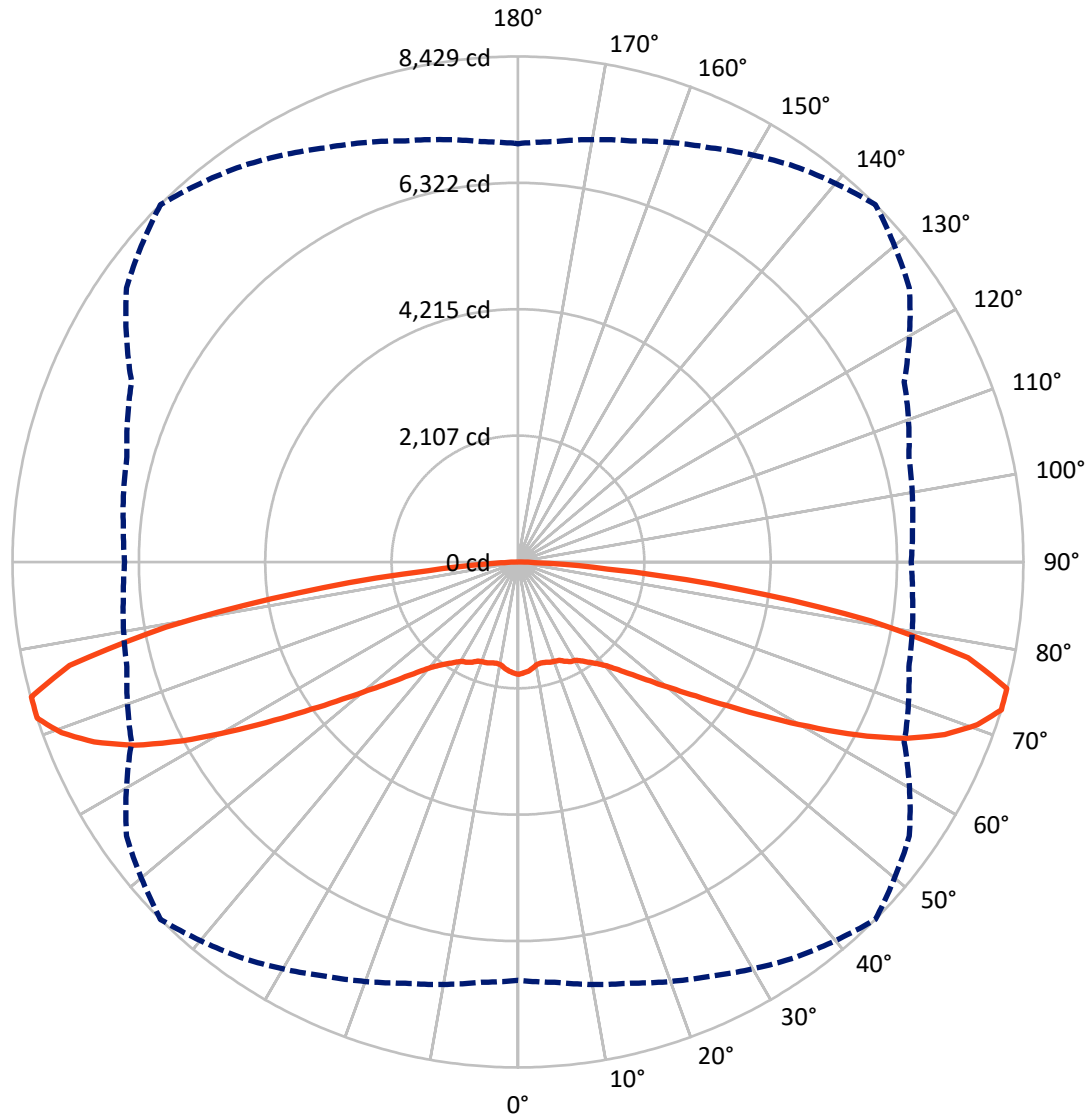
✕ Max cd
 - - - 1/2 Max cd



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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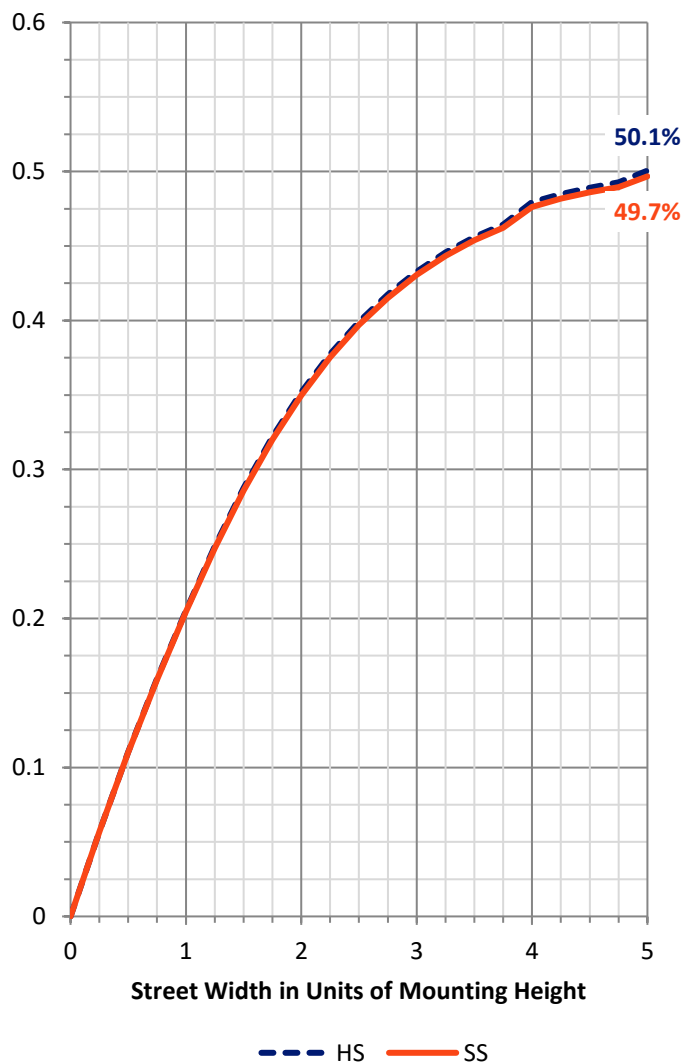
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11337.5	0.0	11337.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11337.5	0.0	11337.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22675.0	0.0	22675.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	0.8
10°-20°	499.4	2.2
20°-30°	848.6	3.7
30°-40°	1294.4	5.7
40°-50°	2131.3	9.4
50°-60°	3722.0	16.4
60°-70°	6240.0	27.5
70°-80°	6678.0	29.5
80°-90°	1089.2	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°	22675.0	100.0
0°-180°	22675.0	100.0

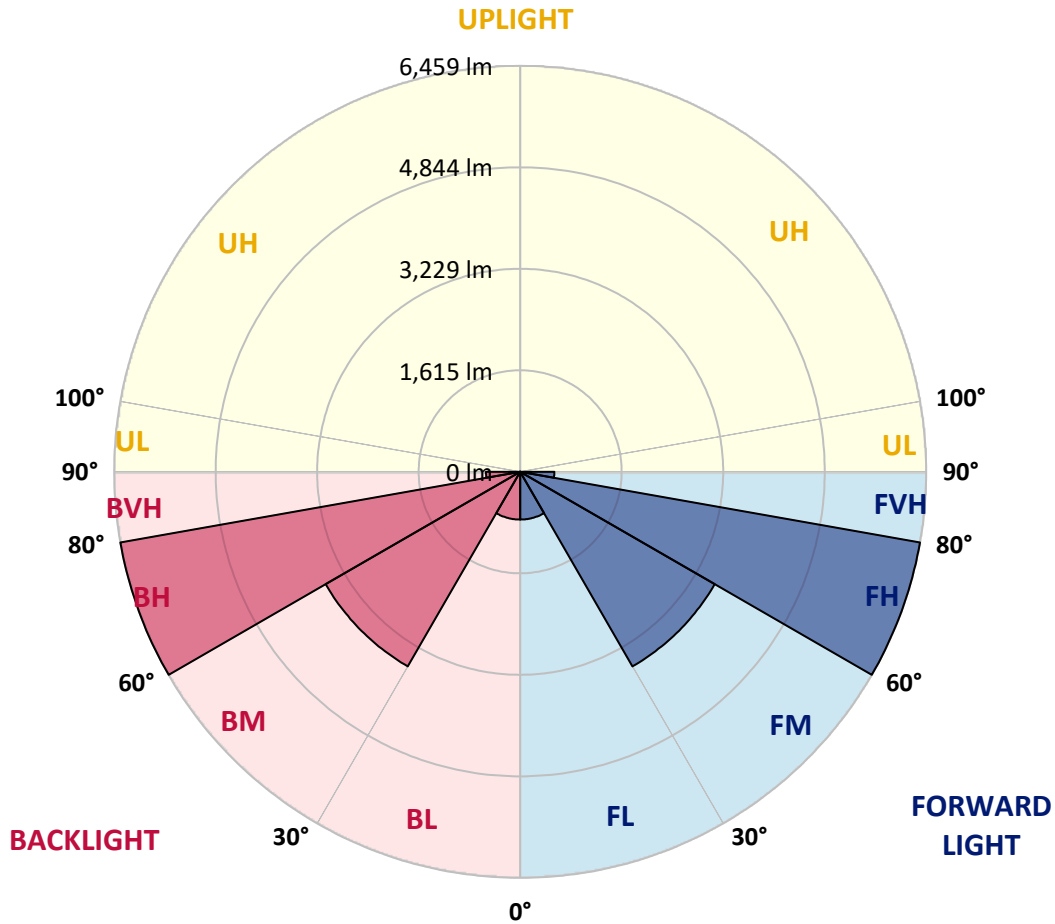


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.1	3.4			
FM (30°-60°)	3573.8	15.8			
FH (60°-80°)	6459.0	28.5			G3/7500
FVH (80°-90°)	544.6	2.4			G4/750
BL (0°-30°)	760.1	3.4	B2/1000		
BM (30°-60°)	3573.8	15.8	B3/5000		
BH (60°-80°)	6459.0	28.5	B5		G3/7500
BVH (80°-90°)	544.6	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°	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4
2.5°	1864.8	1864.8	1864.8	1861.9	1856.1	1853.2	1847.4	1850.3	1850.3	1850.3	1850.3
5°	1841.6	1841.6	1838.7	1835.8	1830.1	1827.2	1821.4	1827.2	1827.2	1827.2	1827.2
7.5°	1798.2	1801.1	1801.1	1798.2	1789.5	1786.6	1777.9	1780.8	1780.8	1783.7	1780.8
10°	1775.0	1775.0	1772.1	1757.7	1743.2	1737.4	1734.5	1743.2	1751.9	1760.6	1760.6
12.5°	1775.0	1775.0	1769.2	1746.1	1725.8	1725.8	1725.8	1737.4	1754.8	1772.1	1775.0
15°	1783.7	1783.7	1772.1	1746.1	1734.5	1737.4	1737.4	1749.0	1769.2	1792.4	1795.3
17.5°	1789.5	1789.5	1775.0	1749.0	1749.0	1757.7	1751.9	1760.6	1780.8	1806.9	1809.8
20°	1798.2	1798.2	1777.9	1757.7	1757.7	1766.3	1766.3	1775.0	1792.4	1818.5	1821.4
22.5°	1815.6	1812.7	1792.4	1775.0	1775.0	1780.8	1786.6	1798.2	1812.7	1835.8	1841.6
25°	1835.8	1835.8	1818.5	1815.6	1821.4	1835.8	1832.9	1830.1	1835.8	1856.1	1864.8
27.5°	1847.4	1847.4	1835.8	1844.5	1867.7	1879.3	1864.8	1853.2	1853.2	1873.5	1876.4
30°	1885.1	1882.2	1870.6	1876.4	1896.7	1902.4	1893.8	1879.3	1888.0	1911.1	1914.0
32.5°	1948.8	1948.8	1931.4	1931.4	1945.9	1969.0	1940.1	1931.4	1943.0	1969.0	1971.9
35°	2047.2	2047.2	2024.1	2012.5	2024.1	2055.9	2012.5	2009.6	2029.9	2058.8	2061.7
37.5°	2171.7	2171.7	2157.3	2128.3	2131.2	2151.5	2113.8	2110.9	2148.6	2180.4	2180.4
40°	2328.1	2336.8	2322.3	2287.6	2276.0	2278.9	2249.9	2252.8	2296.3	2333.9	2333.9
42.5°	2522.1	2527.9	2504.7	2478.7	2464.2	2455.5	2426.6	2432.3	2484.5	2533.7	2533.7
45°	2756.7	2759.6	2736.4	2704.5	2687.2	2681.4	2652.4	2666.9	2724.8	2776.9	2774.0
47.5°	3020.2	3023.1	2999.9	2968.0	2956.5	2965.1	2936.2	2936.2	2988.3	3031.7	3026.0
50°	3318.4	3324.2	3298.1	3283.7	3275.0	3298.1	3263.4	3231.5	3266.3	3309.7	3303.9
52.5°	3648.5	3663.0	3645.6	3651.4	3683.3	3712.2	3654.3	3584.8	3602.2	3631.1	3622.5
55°	4048.1	4065.5	4071.3	4091.6	4175.5	4224.8	4129.2	4013.4	4004.7	4007.6	3993.1
57.5°	4496.9	4508.5	4546.2	4592.5	4766.2	4844.4	4693.8	4494.0	4430.3	4392.7	4384.0
60°	4948.7	4968.9	5061.6	5157.2	5423.6	5565.4	5333.8	4997.9	4861.8	4792.3	4777.8
62.5°	5403.3	5443.8	5594.4	5756.6	6144.6	6356.0	5999.8	5513.3	5316.4	5229.5	5206.4
65°	5930.3	5979.5	6161.9	6367.5	6799.0	7097.2	6665.8	6046.1	5834.7	5718.9	5690.0
67.5°	6547.1	6599.2	6746.9	6975.6	7383.9	7676.4	7294.1	6590.5	6315.4	6167.7	6144.6
70°	7053.8	7100.1	7259.4	7491.0	7795.1	8128.1	7763.2	7024.8	6775.8	6671.6	6657.1
72.5°	6975.6	7036.4	7271.0	7618.5	8052.8	8429.2	7968.8	7108.8	6749.8	6605.0	6558.6
75°	6092.4	6159.0	6437.0	7065.4	7858.8	8420.6	7670.6	6550.0	6127.2	6005.6	5982.4
77.5°	4033.6	4097.3	4566.4	5556.8	6862.7	7673.5	6770.0	5487.3	4806.8	4514.3	4496.9
80°	1630.3	1711.3	2160.2	3211.3	4864.7	5965.0	5021.1	3512.4	2368.6	1911.1	1818.5
82.5°	379.3	451.7	657.3	1184.3	2490.3	3715.1	2707.4	1311.7	761.6	541.5	486.5
85°	159.3	162.2	280.9	385.1	778.9	1499.9	886.1	477.8	388.0	283.8	278.0
87.5°	60.8	63.7	136.1	162.2	249.0	283.8	301.1	246.1	228.8	141.9	136.1
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)