

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: P399632

Luminaire Tested: **ARCH-L-PA3-170-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399632
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-PA3-170-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24525 lumens
Efficiency: N/A
Efficacy: 141.8 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

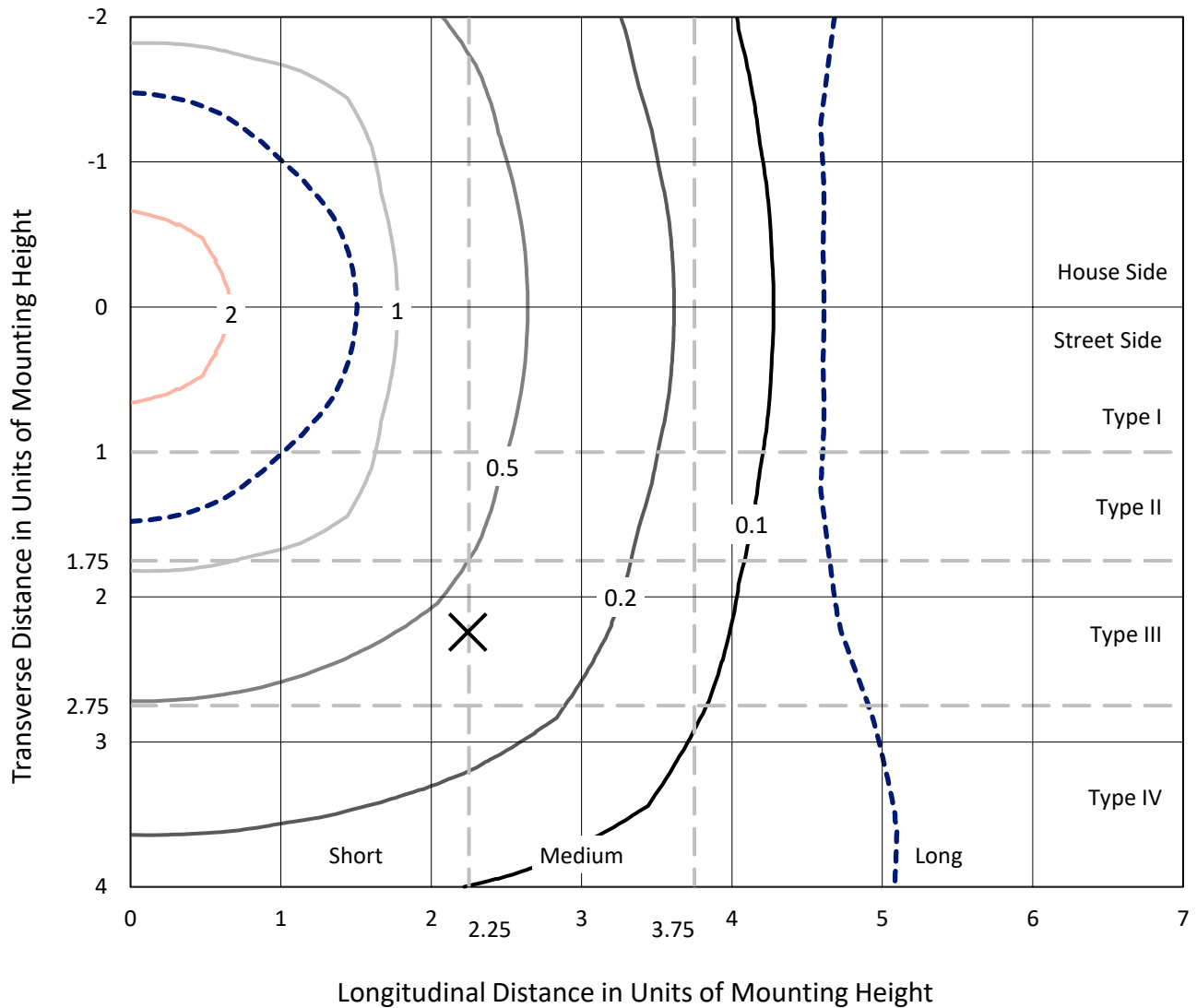
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

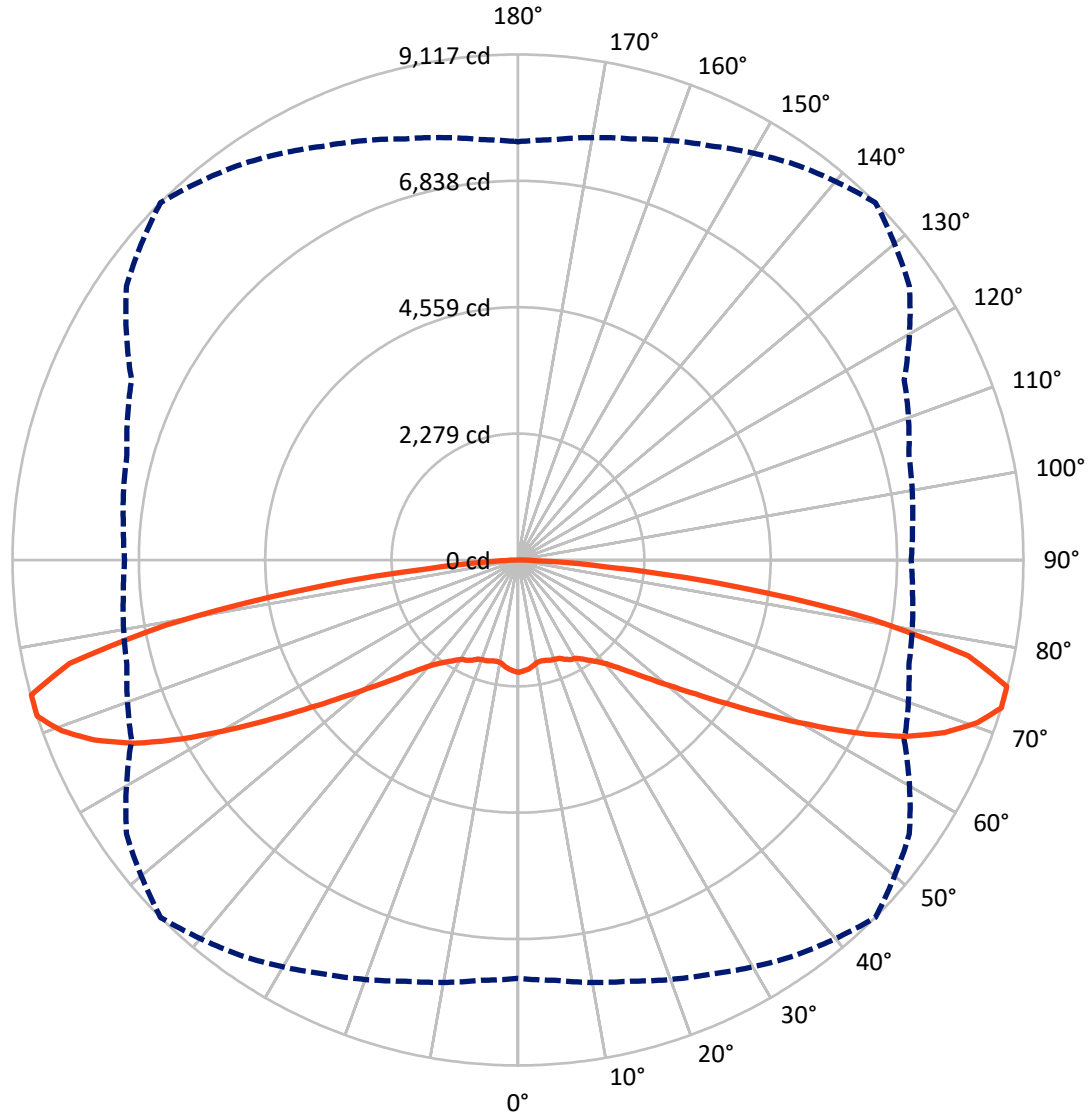
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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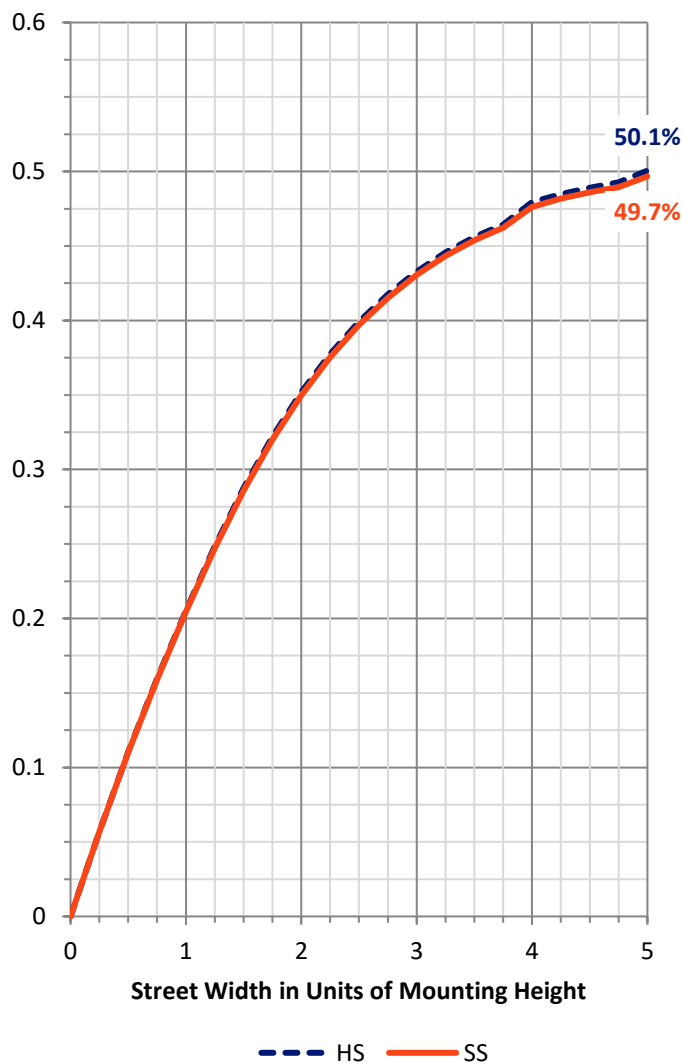
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12262.5	0.0	12262.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12262.5	0.0	12262.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24525.0	0.0	24525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	0.8
10°-20°	540.2	2.2
20°-30°	917.9	3.7
30°-40°	1400.0	5.7
40°-50°	2305.2	9.4
50°-60°	4025.6	16.4
60°-70°	6749.1	27.5
70°-80°	7222.9	29.5
80°-90°	1178.0	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°	24525.0	100.0
0°-180°	24525.0	100.0

Coefficient of Utilization

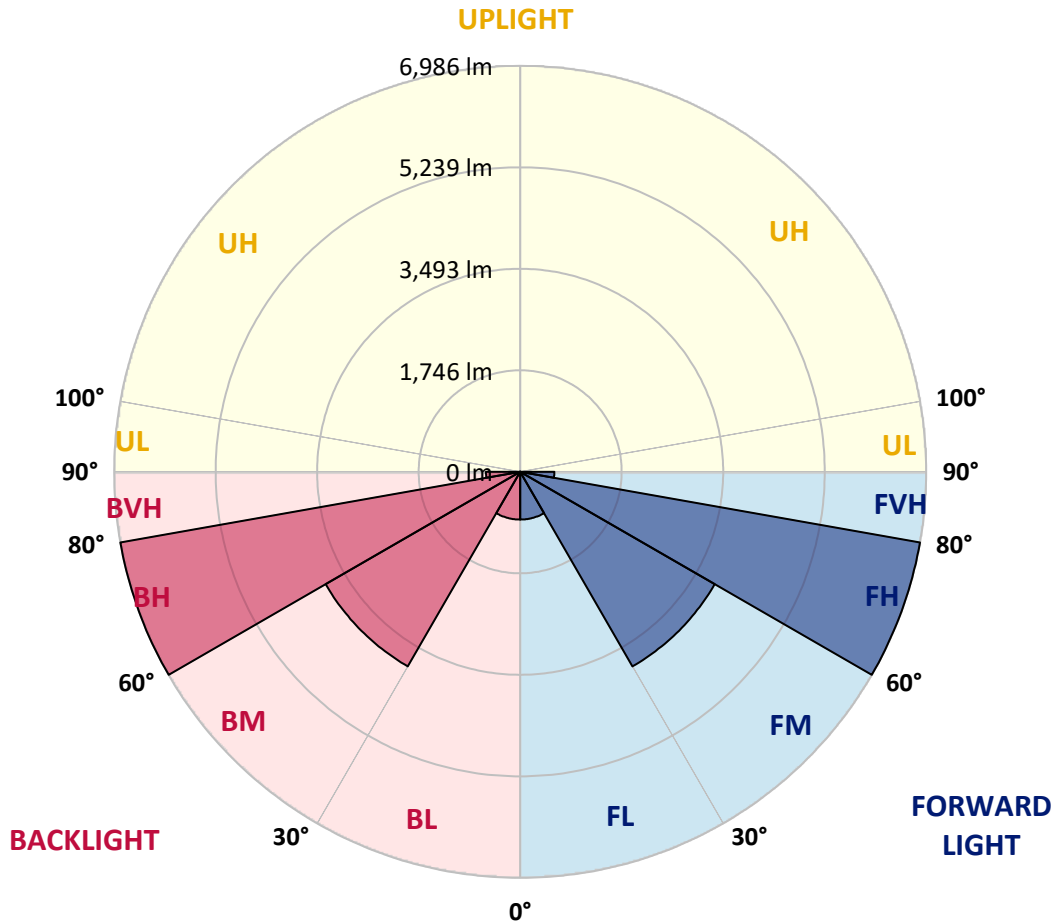


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.1	3.4			
FM (30°-60°)	3865.4	15.8			
FH (60°-80°)	6986.0	28.5			G3/7500
FVH (80°-90°)	589.0	2.4			G4/750
BL (0°-30°)	822.1	3.4	B2/1000		
BM (30°-60°)	3865.4	15.8	B3/5000		
BH (60°-80°)	6986.0	28.5	B5		G3/7500
BVH (80°-90°)	589.0	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°	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5
2.5°	2016.9	2016.9	2016.9	2013.8	2007.5	2004.4	1998.2	2001.3	2001.3	2001.3	2001.3
5°	1991.9	1991.9	1988.8	1985.6	1979.4	1976.2	1970.0	1976.2	1976.2	1976.2	1976.2
7.5°	1944.9	1948.0	1948.0	1944.9	1935.5	1932.4	1923.0	1926.1	1926.1	1929.3	1926.1
10°	1919.9	1919.9	1916.7	1901.1	1885.4	1879.1	1876.0	1885.4	1894.8	1904.2	1904.2
12.5°	1919.9	1919.9	1913.6	1888.5	1866.6	1866.6	1866.6	1879.1	1897.9	1916.7	1919.9
15°	1929.3	1929.3	1916.7	1888.5	1876.0	1879.1	1879.1	1891.7	1913.6	1938.6	1941.8
17.5°	1935.5	1935.5	1919.9	1891.7	1891.7	1901.1	1894.8	1904.2	1926.1	1954.3	1957.4
20°	1944.9	1944.9	1923.0	1901.1	1901.1	1910.5	1910.5	1919.9	1938.6	1966.8	1970.0
22.5°	1963.7	1960.6	1938.6	1919.9	1919.9	1926.1	1932.4	1944.9	1960.6	1985.6	1991.9
25°	1985.6	1985.6	1966.8	1963.7	1970.0	1985.6	1982.5	1979.4	1985.6	2007.5	2016.9
27.5°	1998.2	1998.2	1985.6	1995.0	2020.1	2032.6	2016.9	2004.4	2004.4	2026.3	2029.5
30°	2038.9	2035.7	2023.2	2029.5	2051.4	2057.7	2048.3	2032.6	2042.0	2067.1	2070.2
32.5°	2107.8	2107.8	2089.0	2089.0	2104.6	2129.7	2098.4	2089.0	2101.5	2129.7	2132.8
35°	2214.3	2214.3	2189.2	2176.7	2189.2	2223.6	2176.7	2173.5	2195.5	2226.8	2229.9
37.5°	2348.9	2348.9	2333.3	2301.9	2305.1	2327.0	2286.3	2283.2	2323.9	2358.3	2358.3
40°	2518.0	2527.4	2511.8	2474.2	2461.7	2464.8	2433.5	2436.6	2483.6	2524.3	2524.3
42.5°	2727.9	2734.1	2709.1	2680.9	2665.2	2655.9	2624.5	2630.8	2687.2	2740.4	2740.4
45°	2981.6	2984.7	2959.6	2925.2	2906.4	2900.1	2868.8	2884.5	2947.1	3003.5	3000.4
47.5°	3266.6	3269.7	3244.6	3210.2	3197.7	3207.1	3175.7	3175.7	3232.1	3279.1	3272.8
50°	3589.2	3595.4	3567.2	3551.6	3542.2	3567.2	3529.7	3495.2	3532.8	3579.8	3573.5
52.5°	3946.2	3961.9	3943.1	3949.3	3983.8	4015.1	3952.5	3877.3	3896.1	3927.4	3918.0
55°	4378.4	4397.2	4403.5	4425.4	4516.2	4569.4	4466.1	4340.8	4331.4	4334.5	4318.9
57.5°	4863.8	4876.4	4917.1	4967.2	5155.1	5239.7	5076.8	4860.7	4791.8	4751.1	4741.7
60°	5352.4	5374.3	5474.6	5577.9	5866.0	6019.5	5769.0	5405.7	5258.5	5183.3	5167.6
62.5°	5844.1	5888.0	6050.8	6226.2	6645.9	6874.5	6489.3	5963.1	5750.2	5656.2	5631.2
65°	6414.1	6467.4	6664.7	6887.0	7353.7	7676.3	7209.6	6539.4	6310.8	6185.5	6154.2
67.5°	7081.2	7137.6	7297.3	7544.7	7986.3	8302.7	7889.3	7128.2	6830.7	6670.9	6645.9
70°	7629.3	7679.4	7851.7	8102.2	8431.1	8791.2	8396.6	7598.0	7328.6	7215.9	7200.2
72.5°	7544.7	7610.5	7864.2	8240.0	8709.8	9117.0	8619.0	7688.8	7300.5	7143.9	7093.8
75°	6589.5	6661.6	6962.2	7641.8	8500.0	9107.6	8296.4	7084.4	6627.1	6495.6	6470.5
77.5°	4362.7	4431.6	4939.0	6010.1	7422.6	8299.5	7322.4	5934.9	5199.0	4882.6	4863.8
80°	1763.3	1851.0	2336.4	3473.3	5261.6	6451.7	5430.7	3799.0	2561.9	2067.1	1966.8
82.5°	410.3	488.6	710.9	1280.9	2693.4	4018.2	2928.3	1418.8	823.7	585.7	526.2
85°	172.3	175.4	303.8	416.5	842.5	1622.3	958.4	516.8	419.7	306.9	300.7
87.5°	65.8	68.9	147.2	175.4	269.3	306.9	325.7	266.2	247.4	153.5	147.2
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)