

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: P399704

Luminaire Tested: **ARCH-L-PA3-180-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399704
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-PA3-180-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 25111 lumens
Efficiency: N/A
Efficacy: 138.7 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

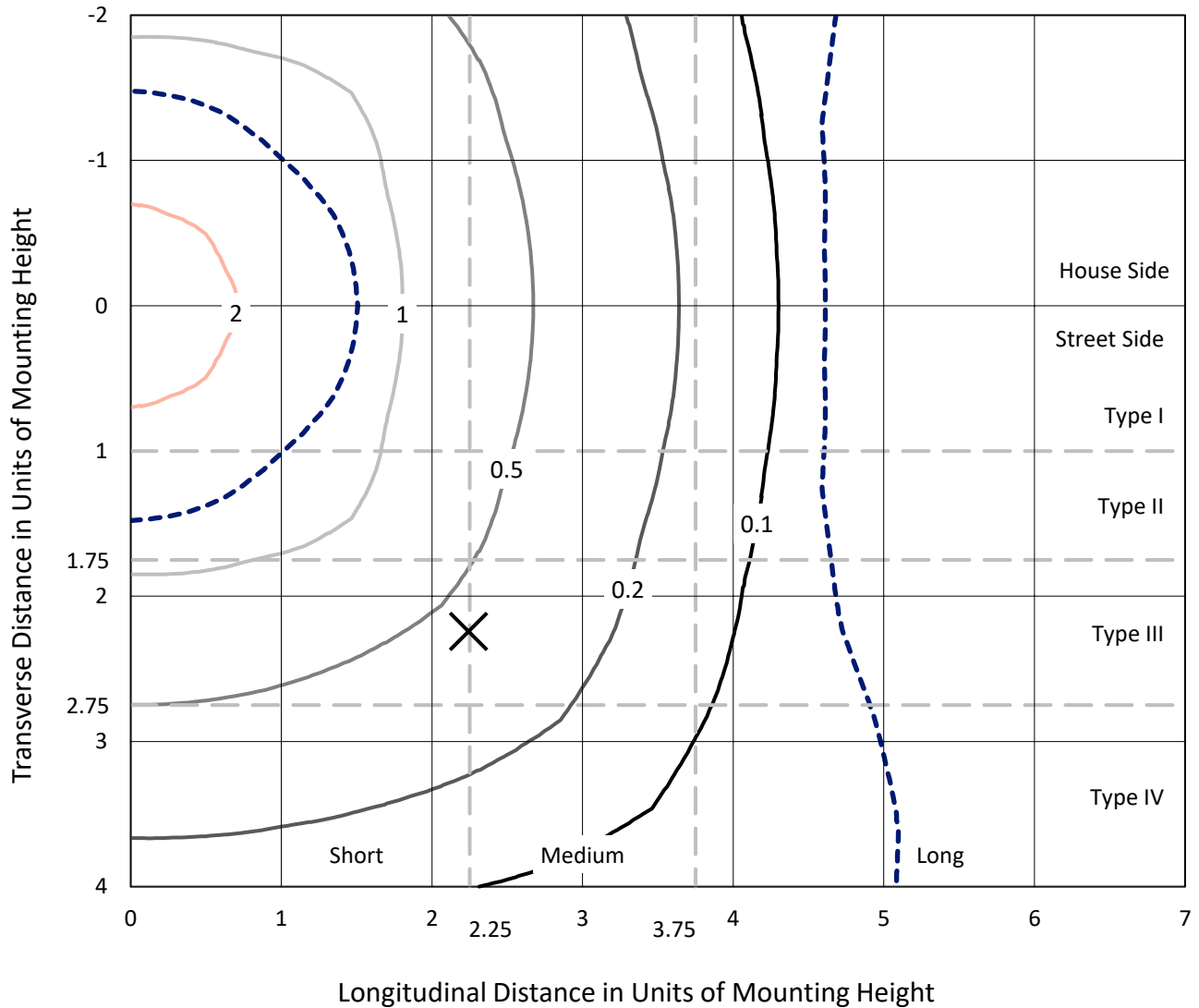
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

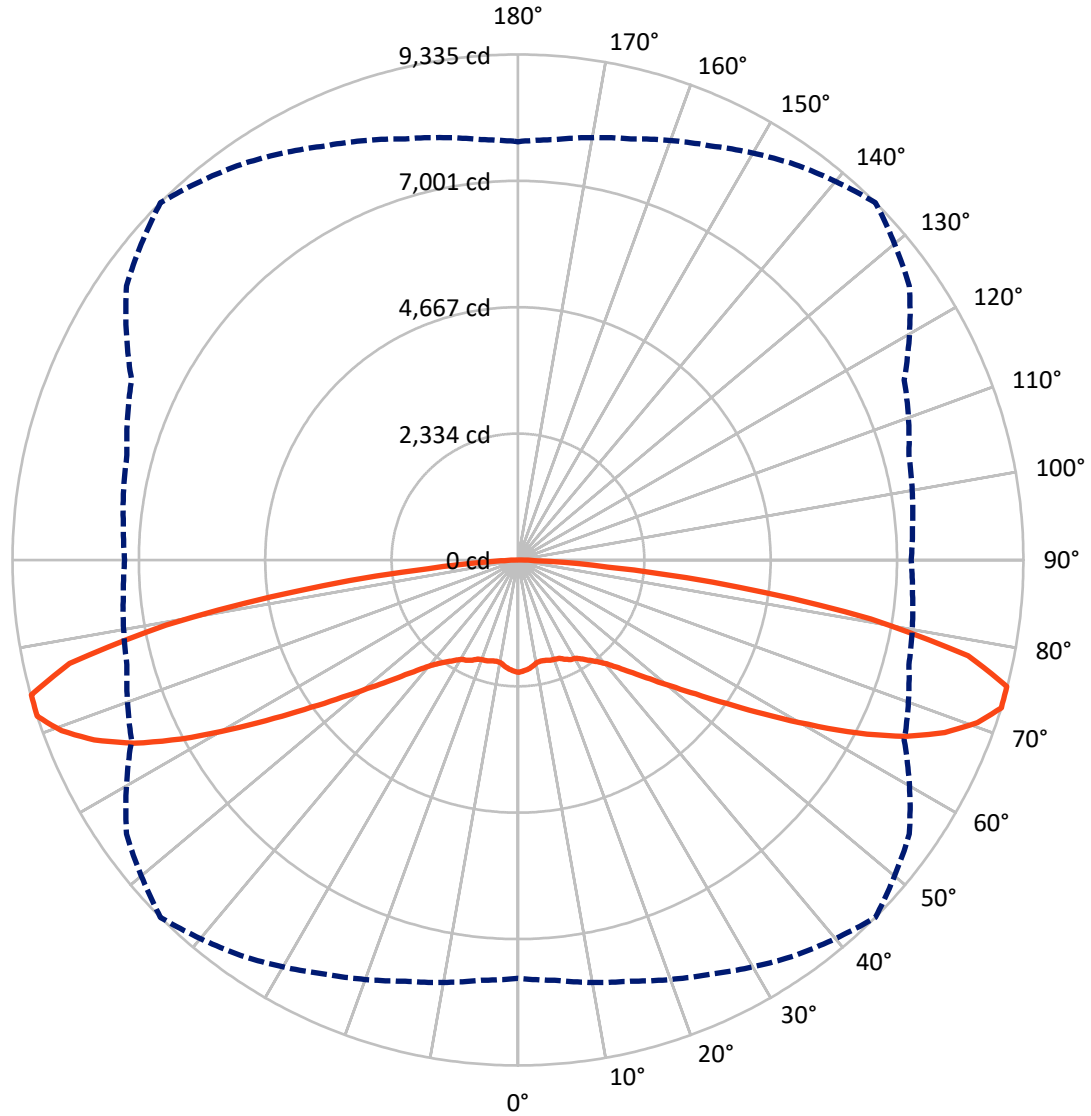
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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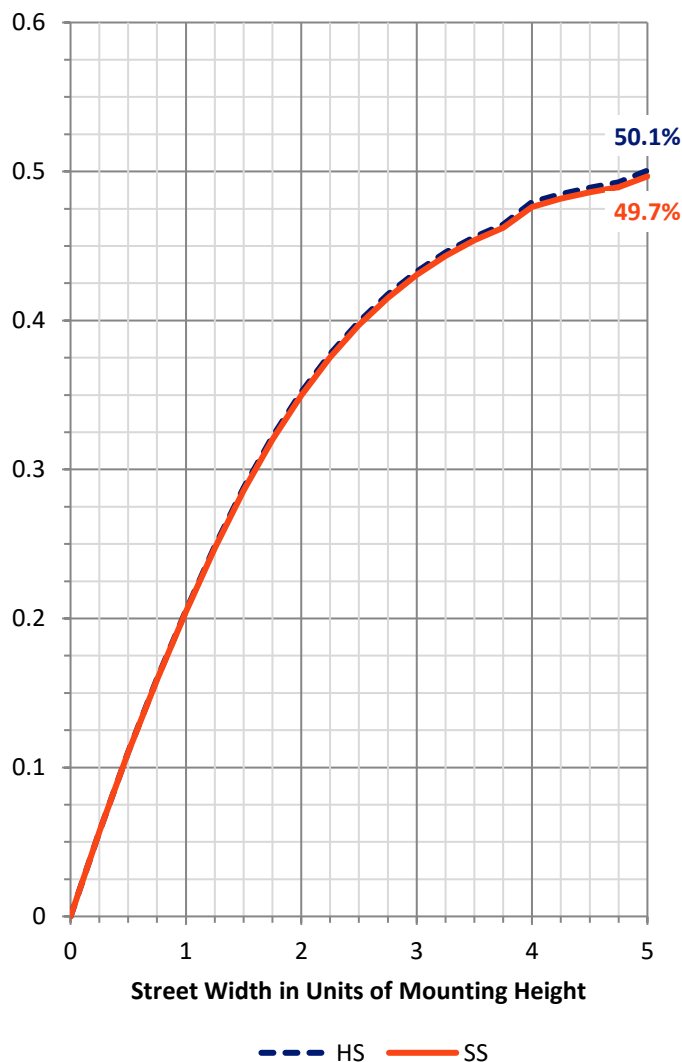
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12555.5	0.0	12555.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12555.5	0.0	12555.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25111.0	0.0	25111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	0.8
10°-20°	553.1	2.2
20°-30°	939.8	3.7
30°-40°	1433.4	5.7
40°-50°	2360.3	9.4
50°-60°	4121.8	16.4
60°-70°	6910.3	27.5
70°-80°	7395.5	29.5
80°-90°	1206.2	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°	25111.0	100.0
0°-180°	25111.0	100.0

Coefficient of Utilization



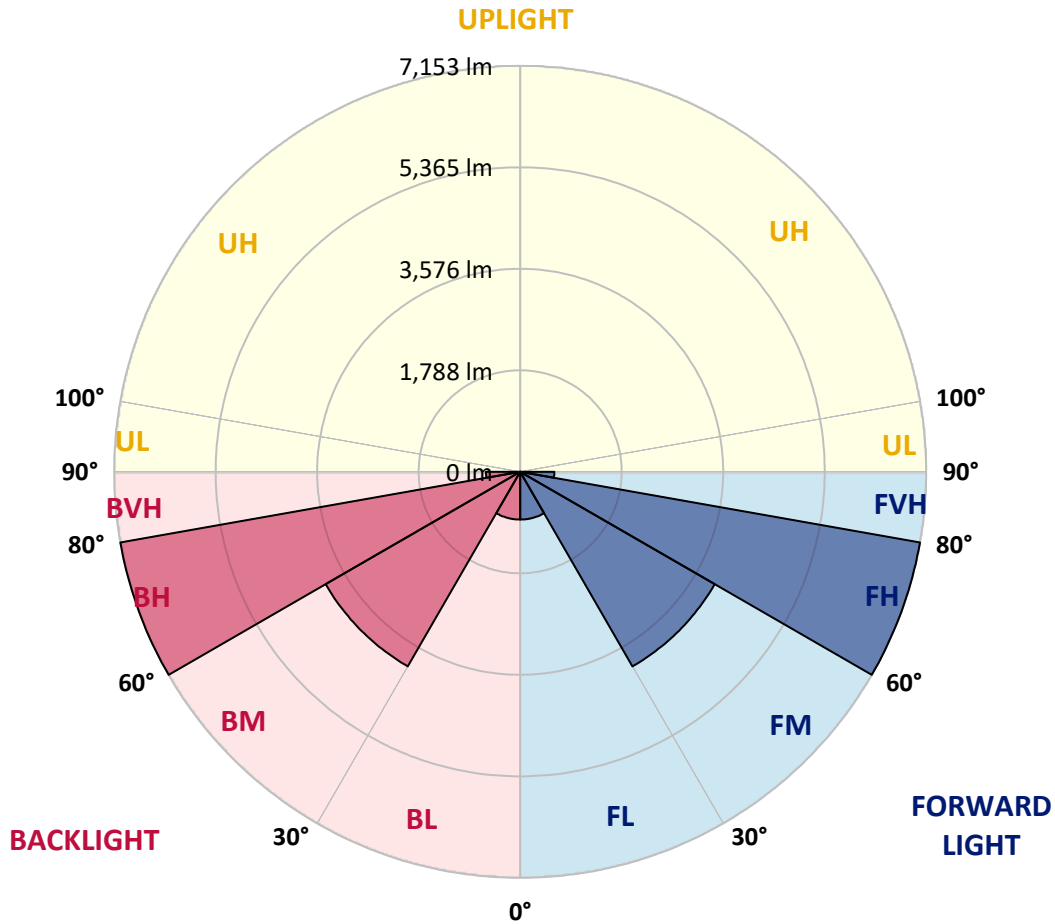
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.7	3.4			
FM (30°-60°)	3957.8	15.8			
FH (60°-80°)	7152.9	28.5			G3/7500
FVH (80°-90°)	603.1	2.4			G4/750
BL (0°-30°)	841.7	3.4	B2/1000		
BM (30°-60°)	3957.8	15.8	B3/5000		
BH (60°-80°)	7152.9	28.5	B5		G3/7500
BVH (80°-90°)	603.1	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°	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0	2078.0
2.5°	2065.1	2065.1	2065.1	2061.9	2055.5	2052.3	2045.9	2049.1	2049.1	2049.1	2049.1
5°	2039.5	2039.5	2036.3	2033.1	2026.7	2023.4	2017.0	2023.4	2023.4	2023.4	2023.4
7.5°	1991.4	1994.6	1994.6	1991.4	1981.8	1978.6	1968.9	1972.1	1972.1	1975.3	1972.1
10°	1965.7	1965.7	1962.5	1946.5	1930.5	1924.0	1920.8	1930.5	1940.1	1949.7	1949.7
12.5°	1965.7	1965.7	1959.3	1933.7	1911.2	1911.2	1911.2	1924.0	1943.3	1962.5	1965.7
15°	1975.3	1975.3	1962.5	1933.7	1920.8	1924.0	1924.0	1936.9	1959.3	1985.0	1988.2
17.5°	1981.8	1981.8	1965.7	1936.9	1936.9	1946.5	1940.1	1949.7	1972.1	2001.0	2004.2
20°	1991.4	1991.4	1968.9	1946.5	1946.5	1956.1	1956.1	1965.7	1985.0	2013.8	2017.0
22.5°	2010.6	2007.4	1985.0	1965.7	1965.7	1972.1	1978.6	1991.4	2007.4	2033.1	2039.5
25°	2033.1	2033.1	2013.8	2010.6	2017.0	2033.1	2029.9	2026.7	2033.1	2055.5	2065.1
27.5°	2045.9	2045.9	2033.1	2042.7	2068.3	2081.2	2065.1	2052.3	2052.3	2074.8	2078.0
30°	2087.6	2084.4	2071.5	2078.0	2100.4	2106.8	2097.2	2081.2	2090.8	2116.4	2119.7
32.5°	2158.1	2158.1	2138.9	2138.9	2154.9	2180.6	2148.5	2138.9	2151.7	2180.6	2183.8
35°	2267.2	2267.2	2241.5	2228.7	2241.5	2276.8	2228.7	2225.5	2247.9	2280.0	2283.2
37.5°	2405.0	2405.0	2389.0	2356.9	2360.2	2382.6	2340.9	2337.7	2379.4	2414.7	2414.7
40°	2578.2	2587.8	2571.8	2533.3	2520.5	2523.7	2491.6	2494.8	2542.9	2584.6	2584.6
42.5°	2793.1	2799.5	2773.8	2745.0	2728.9	2719.3	2687.2	2693.7	2751.4	2805.9	2805.9
45°	3052.8	3056.0	3030.4	2995.1	2975.8	2969.4	2937.4	2953.4	3017.5	3075.3	3072.1
47.5°	3344.6	3347.8	3322.2	3286.9	3274.1	3283.7	3251.6	3251.6	3309.3	3357.4	3351.0
50°	3674.9	3681.3	3652.5	3636.4	3626.8	3652.5	3614.0	3578.7	3617.2	3665.3	3658.9
52.5°	4040.5	4056.5	4037.3	4043.7	4079.0	4111.0	4046.9	3969.9	3989.2	4021.2	4011.6
55°	4483.0	4502.3	4508.7	4531.1	4624.1	4678.6	4572.8	4444.5	4434.9	4438.1	4422.1
57.5°	4980.1	4992.9	5034.6	5085.9	5278.3	5364.9	5198.1	4976.9	4906.3	4864.6	4855.0
60°	5480.3	5502.8	5605.4	5711.2	6006.2	6163.3	5906.8	5534.8	5384.1	5307.1	5291.1
62.5°	5983.8	6028.7	6195.4	6375.0	6804.7	7038.8	6644.4	6105.6	5887.6	5791.4	5765.7
65°	6567.4	6621.9	6823.9	7051.6	7529.4	7859.7	7381.9	6695.7	6461.6	6333.3	6301.2
67.5°	7250.4	7308.1	7471.7	7725.0	8177.2	8501.0	8077.8	7298.5	6993.9	6830.3	6804.7
70°	7811.6	7862.9	8039.3	8295.8	8632.5	9001.3	8597.3	7779.5	7503.8	7388.3	7372.3
72.5°	7725.0	7792.4	8052.1	8436.9	8917.9	9334.8	8824.9	7872.5	7474.9	7314.6	7263.3
75°	6747.0	6820.7	7128.6	7824.4	8703.1	9325.2	8494.6	7253.6	6785.4	6650.8	6625.1
77.5°	4467.0	4537.5	5057.0	6153.7	7600.0	8497.8	7497.3	6076.8	5323.2	4999.3	4980.1
80°	1805.4	1895.2	2392.2	3556.3	5387.3	6605.9	5560.5	3889.8	2623.1	2116.4	2013.8
82.5°	420.1	500.3	727.9	1311.6	2757.8	4114.2	2998.3	1452.7	843.4	599.7	538.7
85°	176.4	179.6	311.1	426.5	862.6	1661.1	981.3	529.1	429.7	314.3	307.8
87.5°	67.3	70.5	150.7	179.6	275.8	314.3	333.5	272.6	253.3	157.1	150.7
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)