

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: P265697

Luminaire Tested: **ARCH-L-AF72-230-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-230-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23918.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 229
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

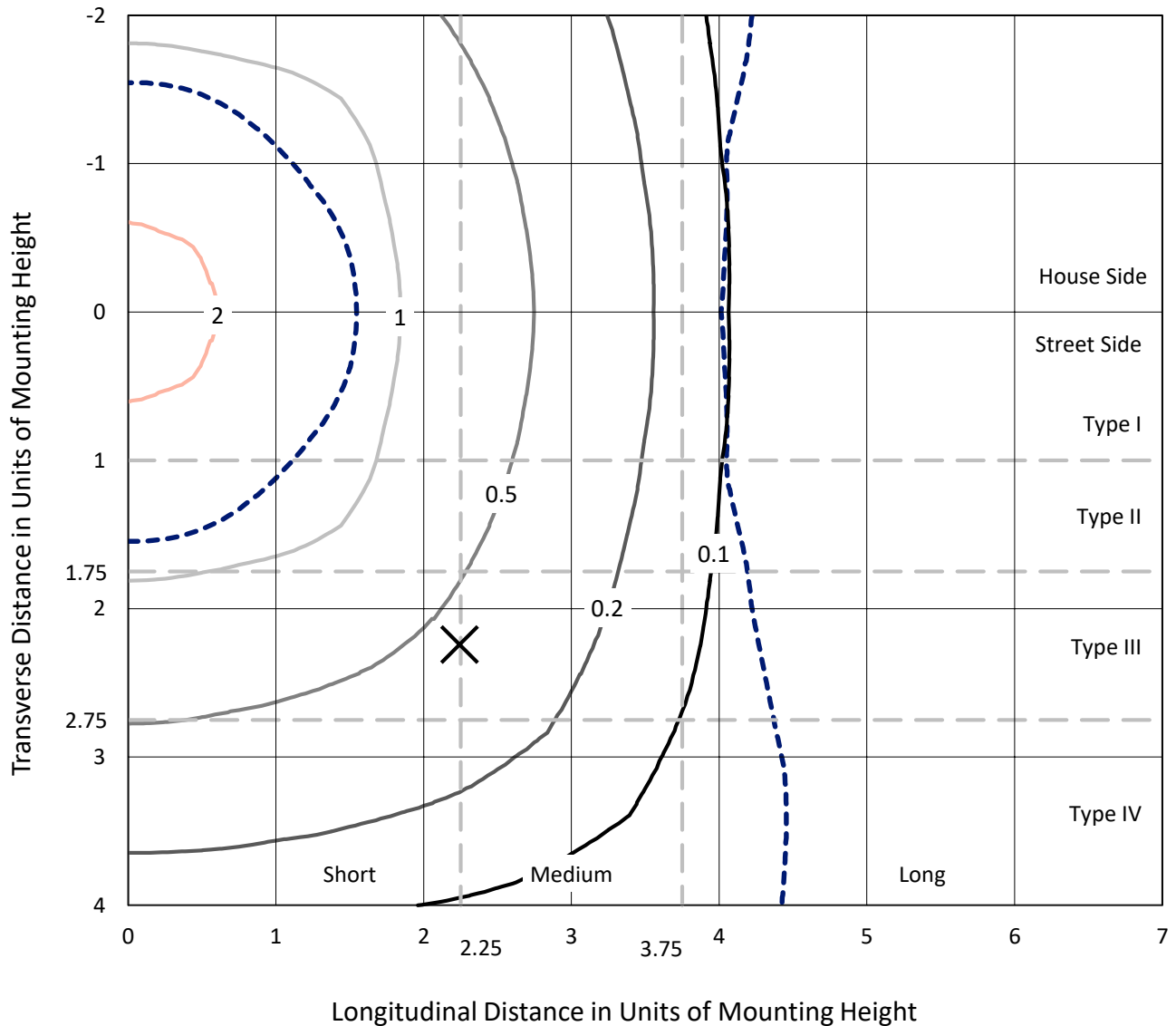


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

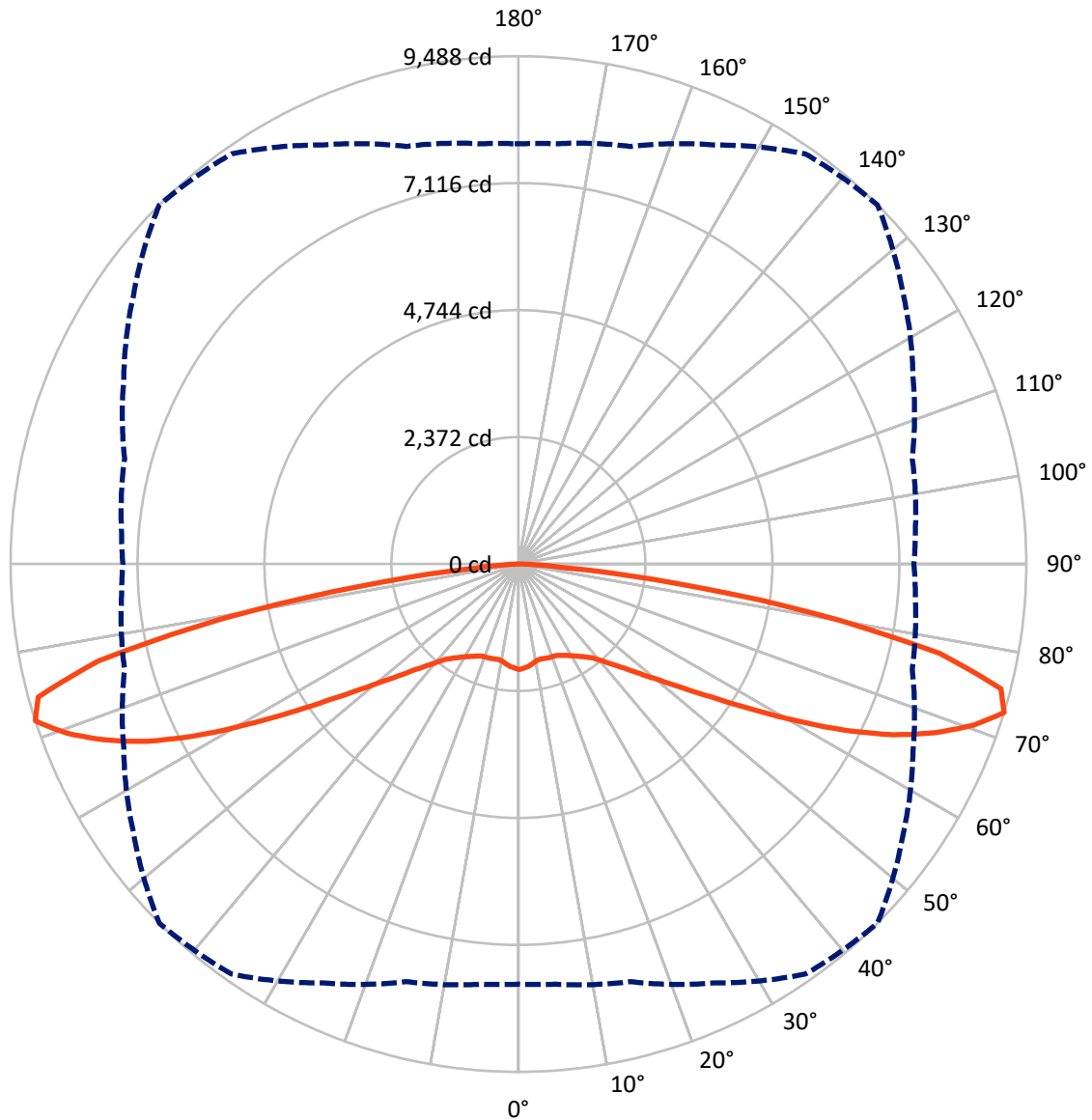


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Non-Cutoff

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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	11959.4	0.0	11959.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11959.4	0.0	11959.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	23918.7	0.0	23918.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	0.8
10°-20°	523.4	2.2
20°-30°	875.9	3.7
30°-40°	1345.8	5.6
40°-50°	2228.3	9.3
50°-60°	3961.4	16.6
60°-70°	6930.4	29.0
70°-80°	7051.1	29.5
80°-90°	821.1	3.4
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°	23918.7	100.0
0°-180°	23918.7	100.0



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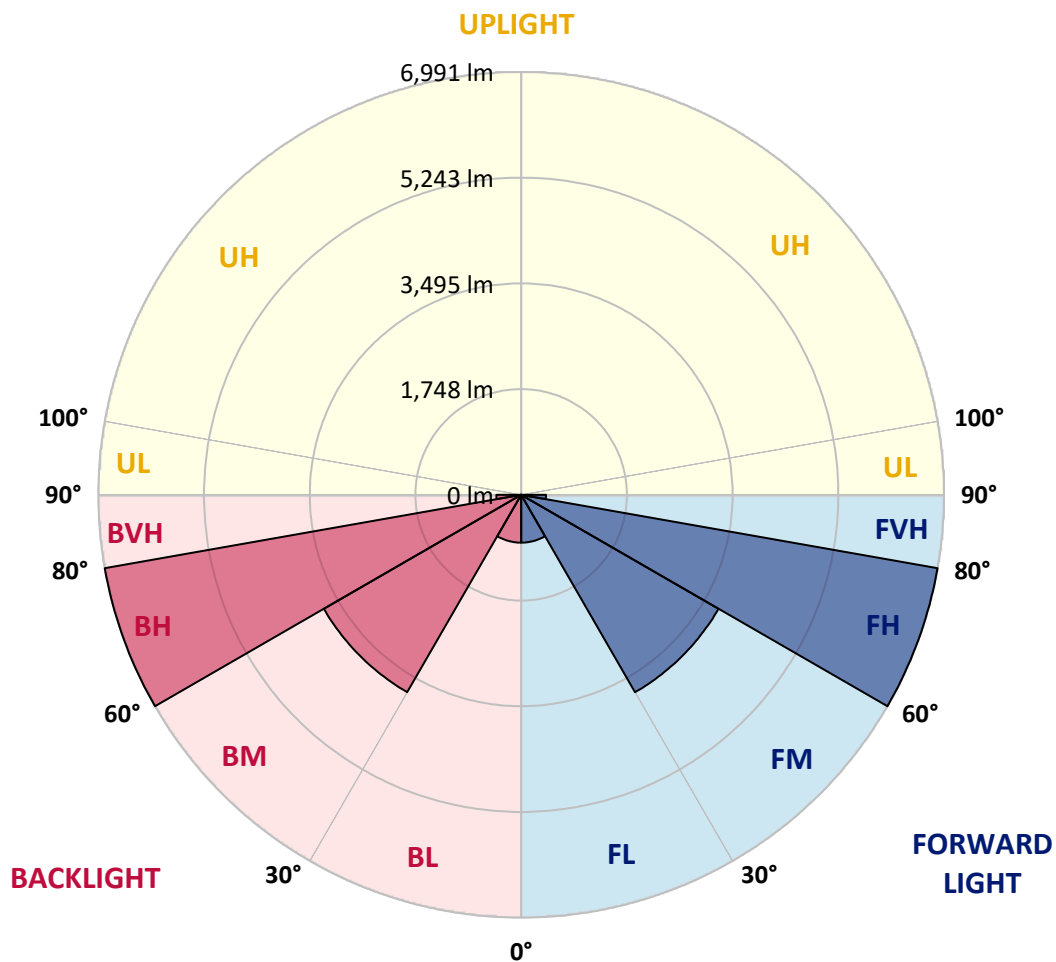
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.3	3.3			
FM	(30°-60°)	3767.7	15.8			
FH	(60°-80°)	6990.8	29.2			G3/7500
FVH	(80°-90°)	410.5	1.7			G3/500
BL	(0°-30°)	790.3	3.3	B2/1000		
BM	(30°-60°)	3767.7	15.8	B3/5000		
BH	(60°-80°)	6990.8	29.2	B5		G3/7500
BVH	(80°-90°)	410.5	1.7			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°	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	1953.3	1957.8	1948.8	1948.8	1948.8	1944.1	1948.8	1944.1	1948.8	1953.3	1953.3
5°	1934.9	1934.9	1926.0	1926.0	1926.0	1921.4	1926.0	1926.0	1930.5	1934.9	1934.9
7.5°	1894.0	1894.0	1889.6	1885.0	1880.4	1880.4	1885.0	1885.0	1889.6	1894.0	1894.0
10°	1871.3	1866.8	1857.7	1844.0	1839.4	1834.9	1844.0	1853.1	1866.8	1880.4	1875.8
12.5°	1862.1	1857.7	1839.4	1825.7	1816.6	1821.3	1830.2	1839.4	1862.1	1875.8	1871.3
15°	1871.3	1862.1	1839.4	1816.6	1821.3	1830.2	1839.4	1839.4	1866.8	1880.4	1880.4
17.5°	1871.3	1866.8	1839.4	1821.3	1825.7	1839.4	1844.0	1839.4	1862.1	1885.0	1885.0
20°	1875.8	1875.8	1839.4	1825.7	1830.2	1844.0	1848.5	1844.0	1862.1	1889.6	1889.6
22.5°	1885.0	1880.4	1844.0	1834.9	1844.0	1853.1	1857.7	1853.1	1871.3	1894.0	1898.6
25°	1903.1	1894.0	1862.1	1857.7	1875.8	1889.6	1889.6	1880.4	1889.6	1912.2	1912.2
27.5°	1926.0	1921.4	1885.0	1885.0	1907.7	1934.9	1921.4	1903.1	1912.2	1934.9	1934.9
30°	1966.8	1962.3	1926.0	1926.0	1957.8	1989.7	1957.8	1934.9	1948.8	1971.5	1976.0
32.5°	2026.0	2026.0	1994.1	1985.2	2039.7	2053.4	2039.7	1994.1	2003.3	2035.2	2035.2
35°	2126.3	2117.1	2085.2	2080.7	2135.5	2130.8	2126.3	2085.2	2094.4	2130.8	2130.8
37.5°	2258.2	2253.8	2226.4	2212.7	2240.2	2221.9	2231.0	2212.7	2235.5	2262.8	2267.4
40°	2426.7	2422.2	2399.5	2381.2	2390.3	2363.0	2372.2	2381.2	2404.0	2422.2	2426.7
42.5°	2636.2	2636.2	2613.3	2581.5	2568.0	2554.2	2554.2	2572.4	2595.3	2618.0	2618.0
45°	2895.7	2895.7	2868.4	2836.5	2795.5	2772.8	2782.0	2800.0	2827.4	2854.8	2863.8
47.5°	3200.8	3200.8	3164.4	3132.5	3091.4	3064.2	3064.2	3073.3	3114.2	3137.1	3150.6
50°	3542.2	3528.6	3492.3	3460.4	3437.5	3401.2	3405.7	3401.2	3437.5	3469.4	3478.4
52.5°	3897.3	3892.9	3856.5	3847.4	3860.9	3842.8	3842.8	3797.2	3810.9	3829.0	3824.5
55°	4339.1	4325.3	4293.4	4311.8	4366.3	4393.7	4384.5	4311.8	4270.7	4279.9	4275.3
57.5°	4821.7	4808.0	4798.8	4853.5	4976.4	5090.2	5067.5	4899.0	4821.7	4826.2	4830.7
60°	5313.4	5313.4	5340.8	5477.2	5741.3	5928.1	5859.7	5577.4	5440.9	5413.5	5404.5
62.5°	5818.7	5832.4	5891.7	6119.3	6524.5	6834.0	6661.0	6260.4	6055.6	6000.9	5982.6
65°	6406.2	6419.7	6506.2	6788.5	7325.8	7694.6	7398.7	7020.8	6734.0	6620.1	6601.9
67.5°	7257.4	7266.6	7334.9	7608.0	8113.5	8409.5	8104.4	7767.5	7457.9	7325.8	7316.8
70°	8022.5	8031.6	8090.8	8450.4	8914.8	9019.5	8682.6	8254.6	7931.3	7826.7	7808.4
72.5°	7849.4	7881.3	8077.1	8637.1	9352.0	9488.4	8778.1	8136.3	7617.2	7444.2	7389.5
75°	6583.7	6633.8	6943.4	7785.7	8923.9	9310.9	8213.7	7034.4	6260.4	5928.1	5841.5
77.5°	3842.8	4029.3	4562.1	5641.1	7266.6	8054.4	6765.8	5149.4	3847.4	3300.9	3118.8
80°	1051.7	1151.8	1538.9	2595.3	4557.6	5641.1	4316.3	2363.0	1274.9	956.2	887.9
82.5°	332.4	441.6	560.1	746.8	1789.3	2973.1	1602.7	696.6	546.3	450.8	400.6
85°	177.5	191.2	314.1	364.3	537.2	833.2	496.3	364.3	327.8	241.4	227.6
87.5°	91.1	95.6	177.5	177.5	236.8	195.8	213.9	195.8	186.7	118.3	104.7
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)