

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: P236732

Luminaire Tested: **ARCH-L-AF72-190-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236732
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-AF72-190-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 24565.1 lumens
Efficiency: N/A
Efficacy: 130.0 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

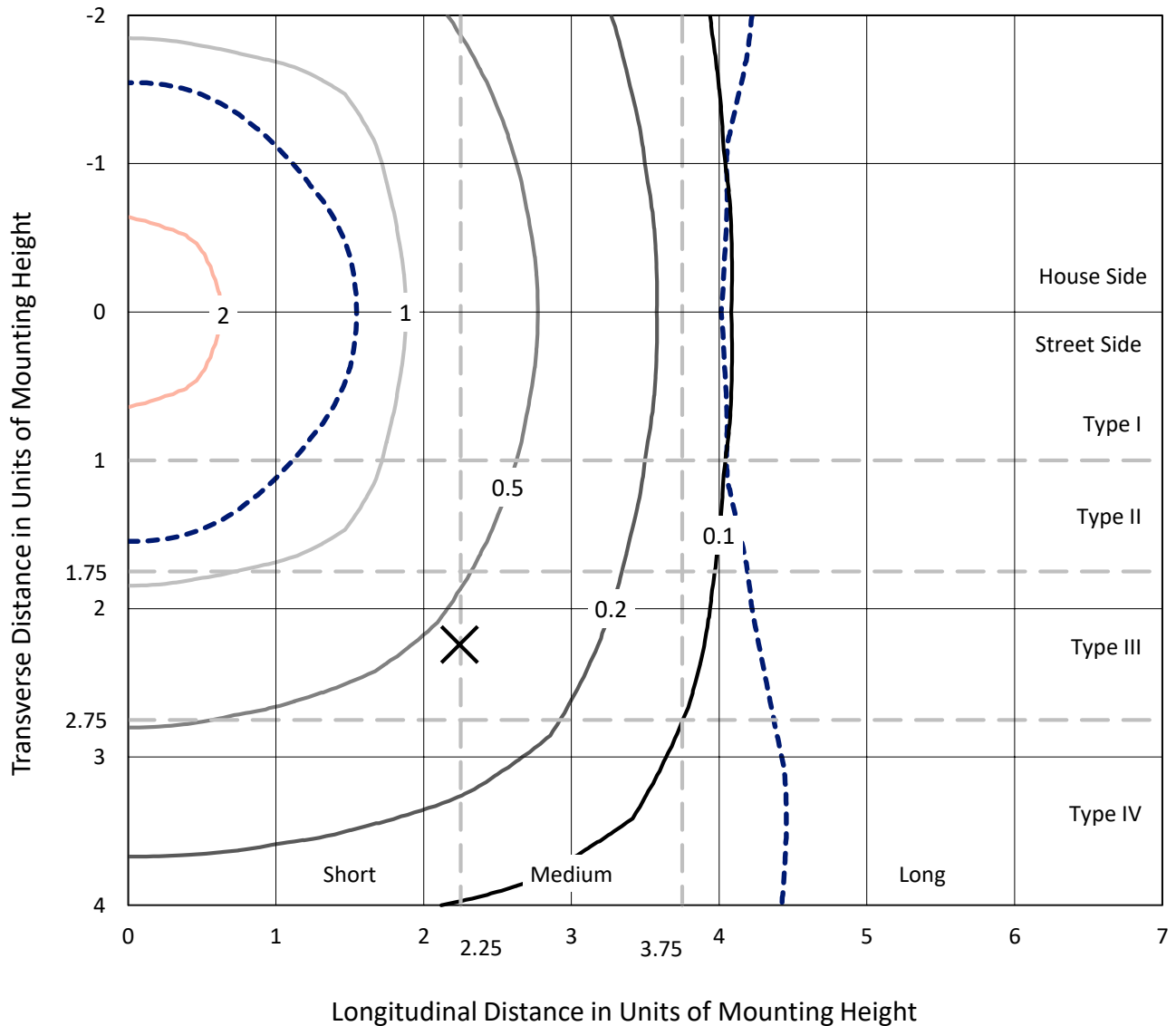
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P236732
 CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

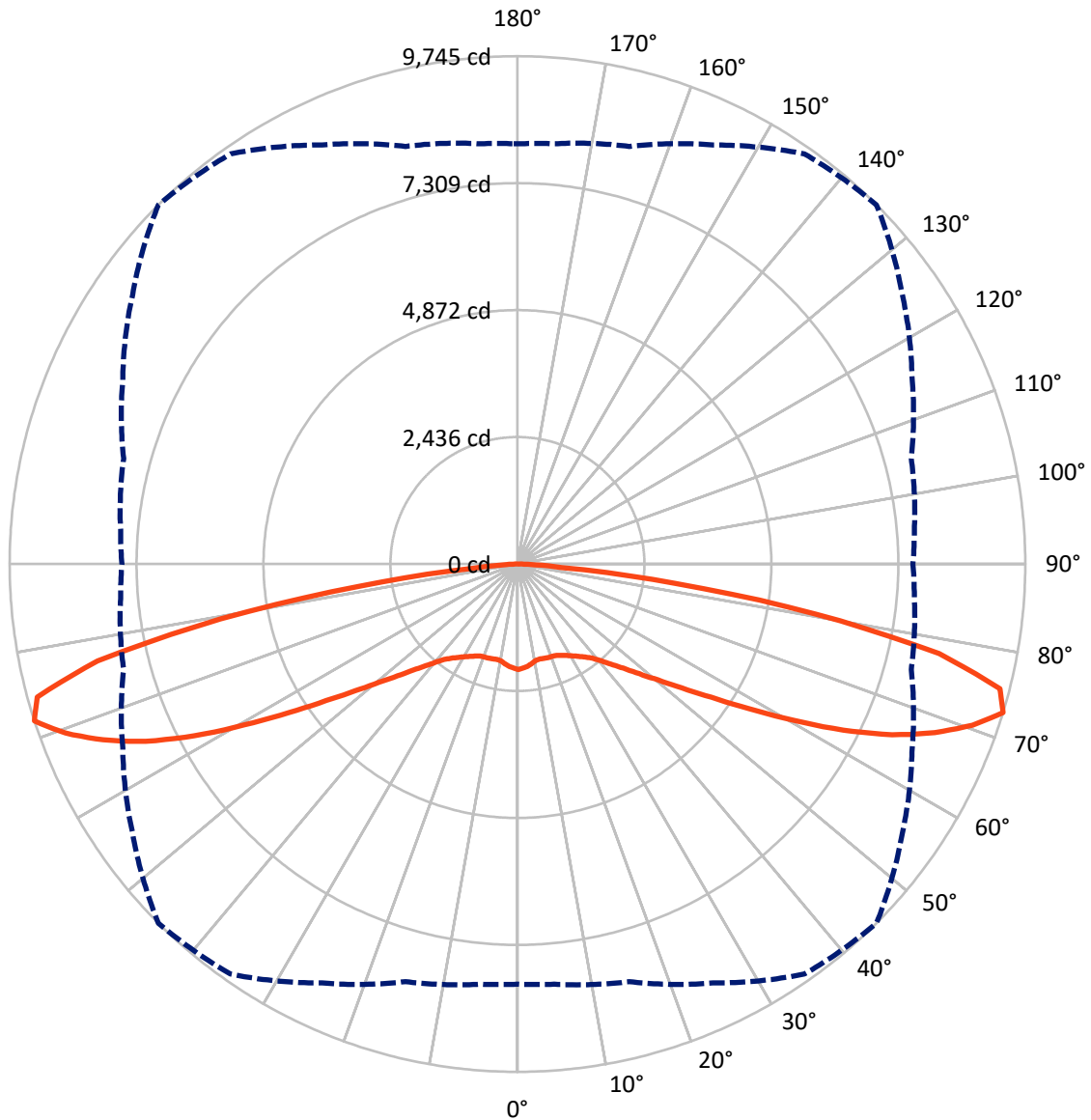
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P236732
CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P236732

CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ

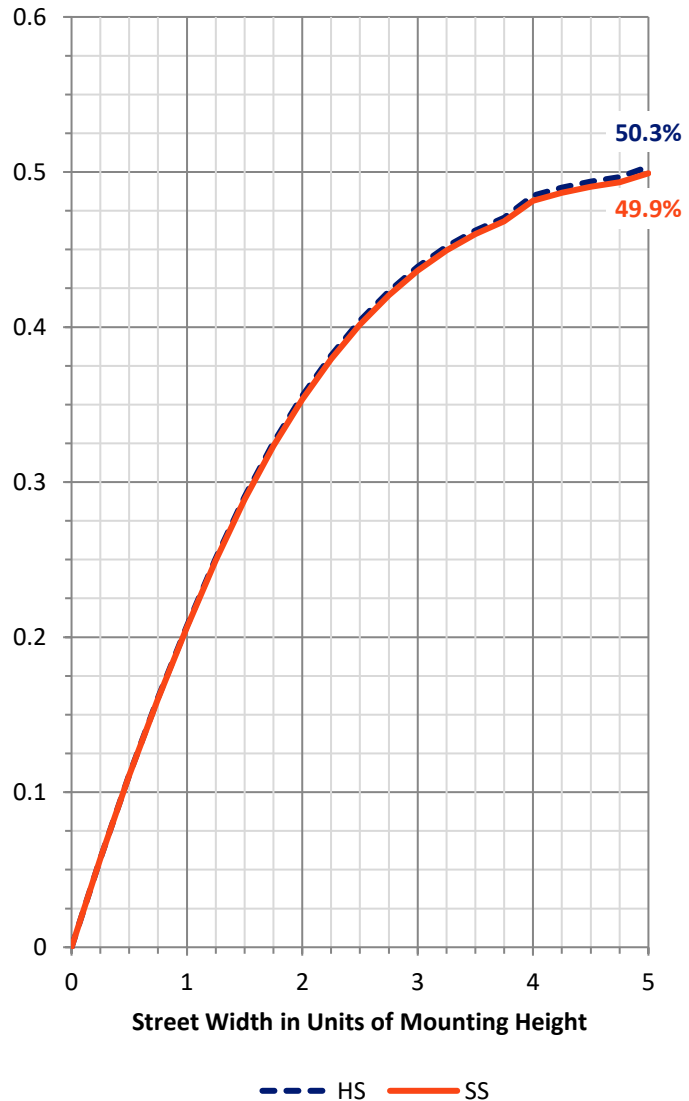
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12282.6	0.0	12282.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12282.6	0.0	12282.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24565.1	0.0	24565.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	0.8
10°-20°	537.5	2.2
20°-30°	899.5	3.7
30°-40°	1382.1	5.6
40°-50°	2288.5	9.3
50°-60°	4068.5	16.6
60°-70°	7117.7	29.0
70°-80°	7241.7	29.5
80°-90°	843.3	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°	24565.1	100.0
0°-180°	24565.1	100.0



REPORT NUMBER: P236732

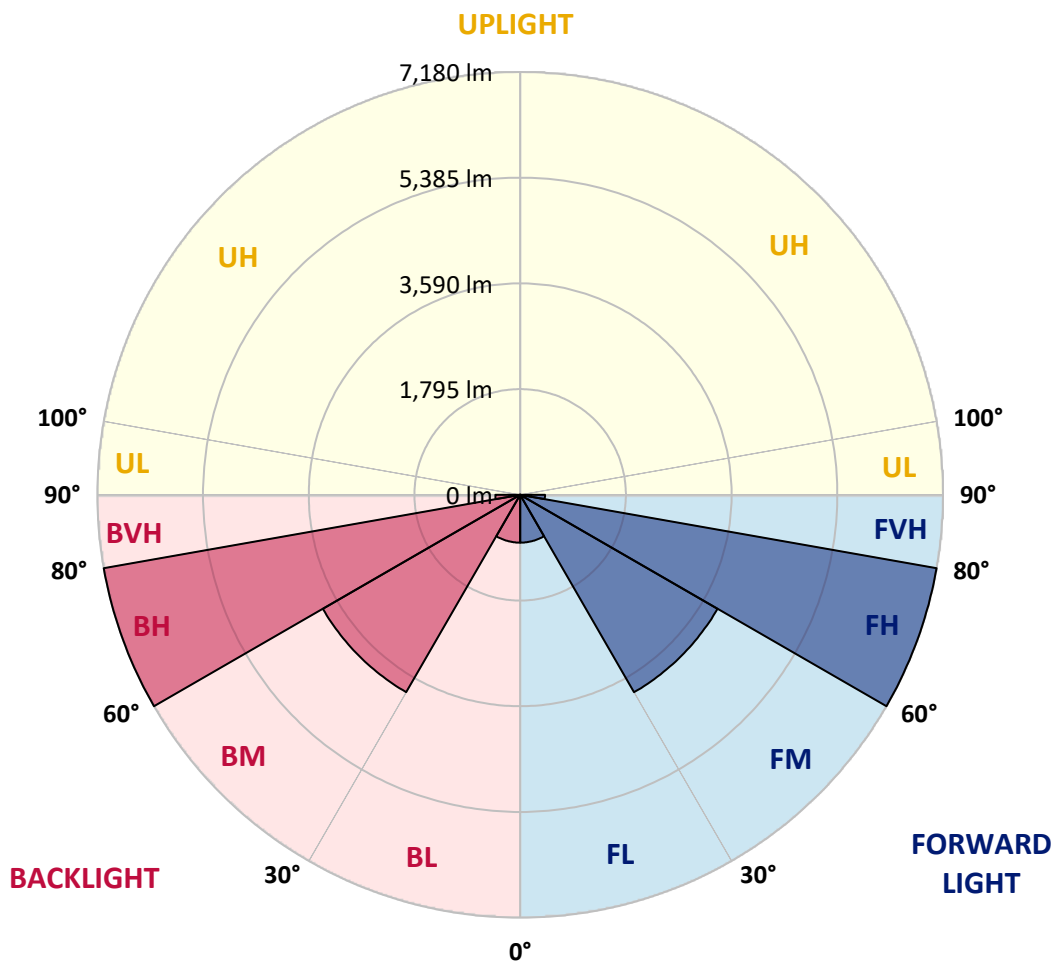
CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.7	3.3			
FM	(30°-60°)	3869.6	15.8			
FH	(60°-80°)	7179.7	29.2			G3/7500
FVH	(80°-90°)	421.6	1.7			G3/500
BL	(0°-30°)	811.7	3.3	B2/1000		
BM	(30°-60°)	3869.6	15.8	B3/5000		
BH	(60°-80°)	7179.7	29.2	B5		G3/7500
BVH	(80°-90°)	421.6	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





REPORT NUMBER: P236732

CATALOG NUMBER: ARCH-L-AF72-190-D-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2024.7	2024.7	2024.7	2024.7	2024.7	2024.7	2024.7	2024.7	2024.7	2024.7	2024.7
2.5°	2006.0	2010.7	2001.4	2001.4	2001.4	1996.7	2001.4	1996.7	2001.4	2006.0	2006.0
5°	1987.3	1987.3	1978.0	1978.0	1978.0	1973.3	1978.0	1978.0	1982.7	1987.3	1987.3
7.5°	1945.2	1945.2	1940.5	1935.9	1931.2	1931.2	1935.9	1935.9	1940.5	1945.2	1945.2
10°	1921.8	1917.2	1907.8	1893.8	1889.1	1884.5	1893.8	1903.2	1917.2	1931.2	1926.5
12.5°	1912.5	1907.8	1889.1	1875.1	1865.8	1870.5	1879.8	1889.1	1912.5	1926.5	1921.8
15°	1921.8	1912.5	1889.1	1865.8	1870.5	1879.8	1889.1	1889.1	1917.2	1931.2	1931.2
17.5°	1921.8	1917.2	1889.1	1870.5	1875.1	1889.1	1893.8	1889.1	1912.5	1935.9	1935.9
20°	1926.5	1926.5	1889.1	1875.1	1879.8	1893.8	1898.5	1893.8	1912.5	1940.5	1940.5
22.5°	1935.9	1931.2	1893.8	1884.5	1893.8	1903.2	1907.8	1903.2	1921.8	1945.2	1949.9
25°	1954.6	1945.2	1912.5	1907.8	1926.5	1940.5	1940.5	1931.2	1940.5	1964.0	1964.0
27.5°	1978.0	1973.3	1935.9	1935.9	1959.3	1987.3	1973.3	1954.6	1964.0	1987.3	1987.3
30°	2020.0	2015.4	1978.0	1978.0	2010.7	2043.4	2010.7	1987.3	2001.4	2024.7	2029.4
32.5°	2080.9	2080.9	2048.2	2038.7	2094.9	2108.9	2094.9	2048.2	2057.5	2090.2	2090.2
35°	2183.7	2174.4	2141.6	2136.9	2193.1	2188.4	2183.7	2141.6	2151.0	2188.4	2188.4
37.5°	2319.3	2314.6	2286.6	2272.6	2300.6	2281.9	2291.3	2272.6	2295.9	2324.0	2328.6
40°	2492.3	2487.7	2464.3	2445.6	2455.0	2426.8	2436.3	2445.6	2469.0	2487.7	2492.3
42.5°	2707.4	2707.4	2684.0	2651.3	2637.3	2623.3	2623.3	2642.0	2665.4	2688.7	2688.7
45°	2974.0	2974.0	2945.9	2913.2	2871.1	2847.7	2857.1	2875.8	2903.9	2931.9	2941.3
47.5°	3287.3	3287.3	3249.9	3217.2	3175.0	3147.0	3147.0	3156.3	3198.5	3221.8	3235.8
50°	3638.0	3623.9	3586.6	3553.8	3530.4	3493.1	3497.7	3493.1	3530.4	3563.1	3572.6
52.5°	4002.7	3998.0	3960.7	3951.2	3965.3	3946.6	3946.6	3899.8	3913.9	3932.5	3927.9
55°	4456.3	4442.3	4409.5	4428.3	4484.3	4512.4	4503.0	4428.3	4386.1	4395.5	4390.8
57.5°	4952.0	4937.9	4928.6	4984.7	5111.0	5227.9	5204.5	5031.5	4952.0	4956.6	4961.3
60°	5456.9	5456.9	5485.1	5625.3	5896.5	6088.2	6018.1	5728.2	5587.9	5559.8	5550.5
62.5°	5976.0	5990.1	6050.9	6284.6	6700.8	7018.8	6841.1	6429.6	6219.1	6163.1	6144.4
65°	6579.2	6593.2	6682.1	6972.0	7523.8	7902.6	7598.6	7210.5	6915.9	6799.0	6780.3
67.5°	7453.6	7463.0	7533.1	7813.7	8332.8	8636.7	8323.4	7977.4	7659.4	7523.8	7514.5
70°	8239.3	8248.6	8309.3	8678.8	9155.7	9263.3	8917.3	8477.7	8145.8	8038.1	8019.4
72.5°	8061.6	8094.3	8295.3	8870.5	9604.7	9744.9	9015.5	8356.2	7823.0	7645.3	7589.3
75°	6761.6	6813.1	7131.0	7996.1	9165.1	9562.5	8435.7	7224.5	6429.6	6088.2	5999.4
77.5°	3946.6	4138.3	4685.4	5793.7	7463.0	8272.0	6948.6	5288.7	3951.2	3390.2	3203.1
80°	1080.1	1183.0	1580.6	2665.4	4680.7	5793.7	4433.0	2426.8	1309.3	981.9	911.9
82.5°	341.4	453.6	575.2	766.9	1837.7	3053.5	1645.9	715.5	561.1	462.9	411.5
85°	182.4	196.4	322.6	374.1	551.8	855.7	509.7	374.1	336.7	247.9	233.8
87.5°	93.5	98.2	182.4	182.4	243.2	201.1	219.7	201.1	191.7	121.6	107.5
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)