

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: P236735

Luminaire Tested: **ARCH-L-AF72-220-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236735
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-AF72-220-D-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

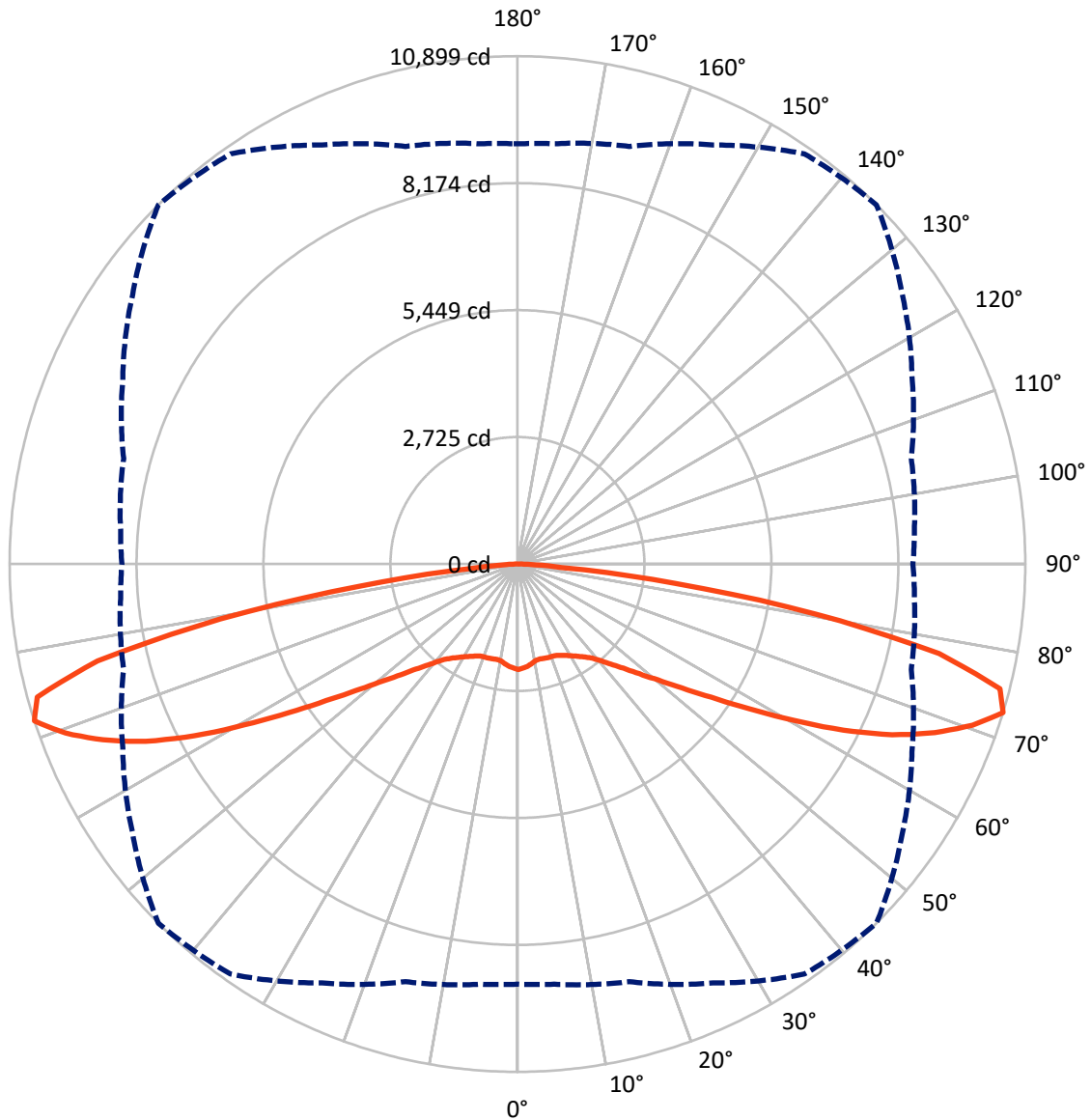
Lumens per Lamp: N/A
Luminaire Lumens: 27473.4 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 222
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: P236735
CATALOG NUMBER: ARCH-L-AF72-220-D-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P236735

CATALOG NUMBER: ARCH-L-AF72-220-D-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13736.7	0.0	13736.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13736.7	0.0	13736.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	27473.4	0.0	27473.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	0.8
10°-20°	601.2	2.2
20°-30°	1006.0	3.7
30°-40°	1545.8	5.6
40°-50°	2559.4	9.3
50°-60°	4550.1	16.6
60°-70°	7960.4	29.0
70°-80°	8099.1	29.5
80°-90°	943.1	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°	27473.4	100.0
0°-180°	27473.4	100.0



REPORT NUMBER: P236735

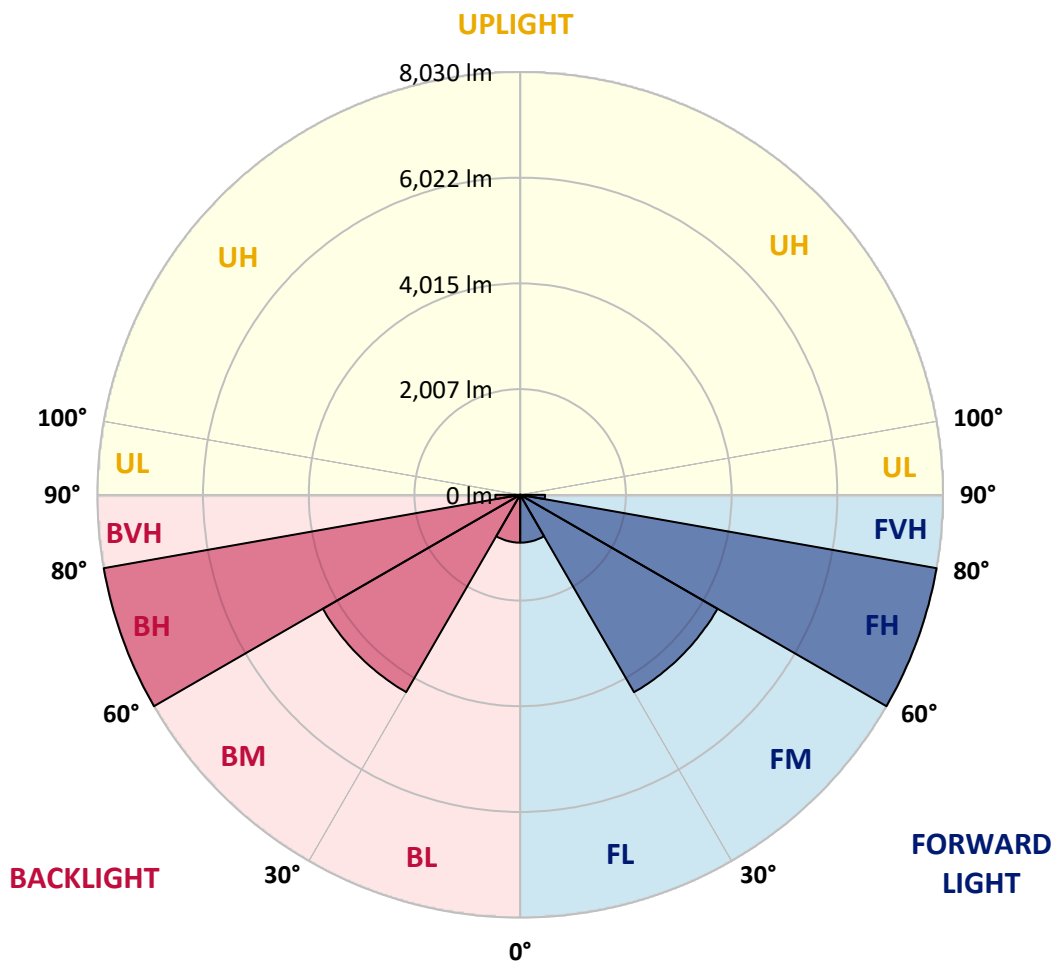
CATALOG NUMBER: ARCH-L-AF72-220-D-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	907.8	3.3			
FM	(30°-60°)	4327.7	15.8			
FH	(60°-80°)	8029.7	29.2			G4/12000
FVH	(80°-90°)	471.5	1.7			G3/500
BL	(0°-30°)	907.8	3.3	B2/1000		
BM	(30°-60°)	4327.7	15.8	B3/5000		
BH	(60°-80°)	8029.7	29.2	B5		G4/12000
BVH	(80°-90°)	471.5	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-G4

Type V Short





REPORT NUMBER: P236735

CATALOG NUMBER: ARCH-L-AF72-220-D-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4	2264.4
2.5°	2243.5	2248.8	2238.3	2238.3	2238.3	2233.1	2238.3	2233.1	2238.3	2243.5	2243.5
5°	2222.6	2222.6	2212.1	2212.1	2212.1	2206.9	2212.1	2212.1	2217.3	2222.6	2222.6
7.5°	2175.5	2175.5	2170.3	2165.1	2159.9	2159.9	2165.1	2165.1	2170.3	2175.5	2175.5
10°	2149.4	2144.2	2133.7	2118.0	2112.8	2107.6	2118.0	2128.5	2144.2	2159.9	2154.6
12.5°	2138.9	2133.7	2112.8	2097.0	2086.6	2091.8	2102.4	2112.8	2138.9	2154.6	2149.4
15°	2149.4	2138.9	2112.8	2086.6	2091.8	2102.4	2112.8	2112.8	2144.2	2159.9	2159.9
17.5°	2149.4	2144.2	2112.8	2091.8	2097.0	2112.8	2118.0	2112.8	2138.9	2165.1	2165.1
20°	2154.6	2154.6	2112.8	2097.0	2102.4	2118.0	2123.2	2118.0	2138.9	2170.3	2170.3
22.5°	2165.1	2159.9	2118.0	2107.6	2118.0	2128.5	2133.7	2128.5	2149.4	2175.5	2180.7
25°	2186.0	2175.5	2138.9	2133.7	2154.6	2170.3	2170.3	2159.9	2170.3	2196.5	2196.5
27.5°	2212.1	2206.9	2165.1	2165.1	2191.3	2222.6	2206.9	2186.0	2196.5	2222.6	2222.6
30°	2259.2	2254.0	2212.1	2212.1	2248.8	2285.4	2248.8	2222.6	2238.3	2264.4	2269.7
32.5°	2327.2	2327.2	2290.6	2280.2	2342.9	2358.6	2342.9	2290.6	2301.0	2337.6	2337.6
35°	2442.3	2431.8	2395.1	2389.9	2452.7	2447.5	2442.3	2395.1	2405.7	2447.5	2447.5
37.5°	2593.9	2588.7	2557.3	2541.6	2573.0	2552.1	2562.5	2541.6	2567.8	2599.1	2604.3
40°	2787.4	2782.2	2756.0	2735.2	2745.6	2714.2	2724.6	2735.2	2761.3	2782.2	2787.4
42.5°	3027.9	3027.9	3001.8	2965.2	2949.6	2933.8	2933.8	2954.8	2980.9	3007.1	3007.1
45°	3326.0	3326.0	3294.7	3258.1	3211.0	3184.9	3195.3	3216.3	3247.7	3279.0	3289.5
47.5°	3676.5	3676.5	3634.6	3598.0	3551.0	3519.6	3519.6	3530.0	3577.1	3603.2	3618.9
50°	4068.7	4053.0	4011.2	3974.6	3948.4	3906.5	3911.8	3906.5	3948.4	3985.0	3995.4
52.5°	4476.6	4471.3	4429.5	4419.0	4434.8	4413.8	4413.8	4361.6	4377.2	4398.2	4393.0
55°	4983.9	4968.2	4931.5	4952.5	5015.2	5046.6	5036.2	4952.5	4905.5	4915.9	4910.7
57.5°	5538.3	5522.5	5512.1	5574.8	5716.0	5846.8	5820.6	5627.2	5538.3	5543.5	5548.7
60°	6103.0	6103.0	6134.4	6291.2	6594.7	6809.1	6730.6	6406.3	6249.4	6218.1	6207.6
62.5°	6683.6	6699.2	6767.2	7028.7	7494.1	7849.7	7651.0	7190.8	6955.5	6892.7	6871.8
65°	7358.2	7373.8	7473.2	7797.4	8414.5	8838.1	8498.2	8064.1	7734.6	7603.9	7583.0
67.5°	8336.1	8346.6	8425.0	8738.8	9319.3	9659.2	9308.9	8921.8	8566.2	8414.5	8404.1
70°	9214.6	9225.2	9293.1	9706.3	10239.7	10359.9	9973.0	9481.4	9110.1	8989.8	8968.9
72.5°	9016.0	9052.6	9277.4	9920.7	10741.7	10898.6	10082.8	9345.4	8749.2	8550.5	8487.7
75°	7562.1	7619.7	7975.2	8942.7	10250.2	10694.6	9434.4	8079.9	7190.8	6809.1	6709.6
77.5°	4413.8	4628.2	5240.2	6479.6	8346.6	9251.3	7771.3	5914.8	4419.0	3791.5	3582.3
80°	1208.0	1323.1	1767.7	2980.9	5234.8	6479.6	4957.7	2714.2	1464.4	1098.2	1019.8
82.5°	381.8	507.3	643.2	857.6	2055.2	3415.0	1840.8	800.2	627.6	517.7	460.2
85°	204.0	219.6	360.9	418.4	617.1	957.1	570.0	418.4	376.5	277.2	261.5
87.5°	104.5	109.9	204.0	204.0	271.9	224.8	245.8	224.8	214.4	136.0	120.3
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)