

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: P265571

Luminaire Tested: **ARCH-L-AF72-90-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265571
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-AF72-90-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11712 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 93
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

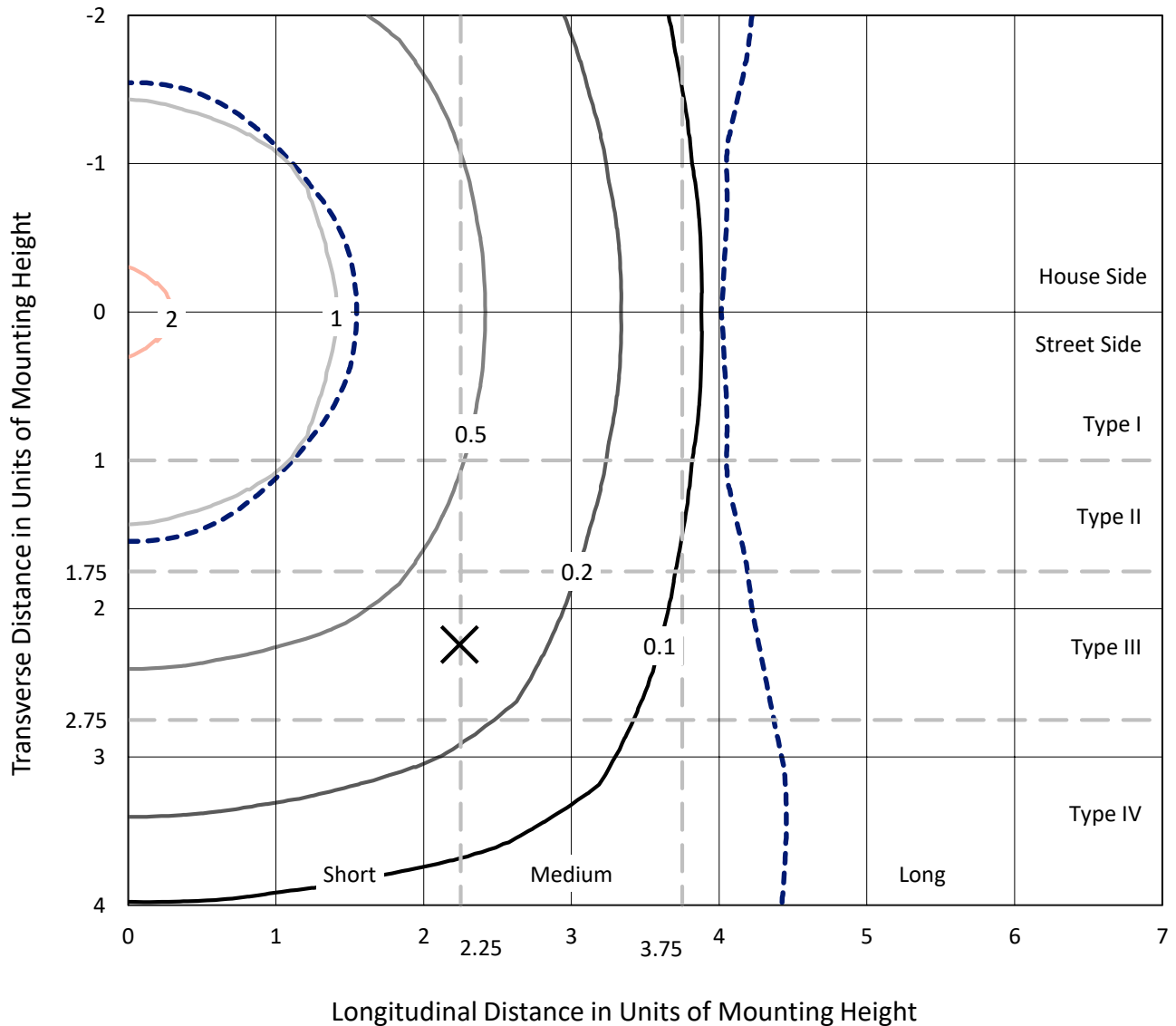


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Iso-Footcandle Lines of Horizontal Illumination

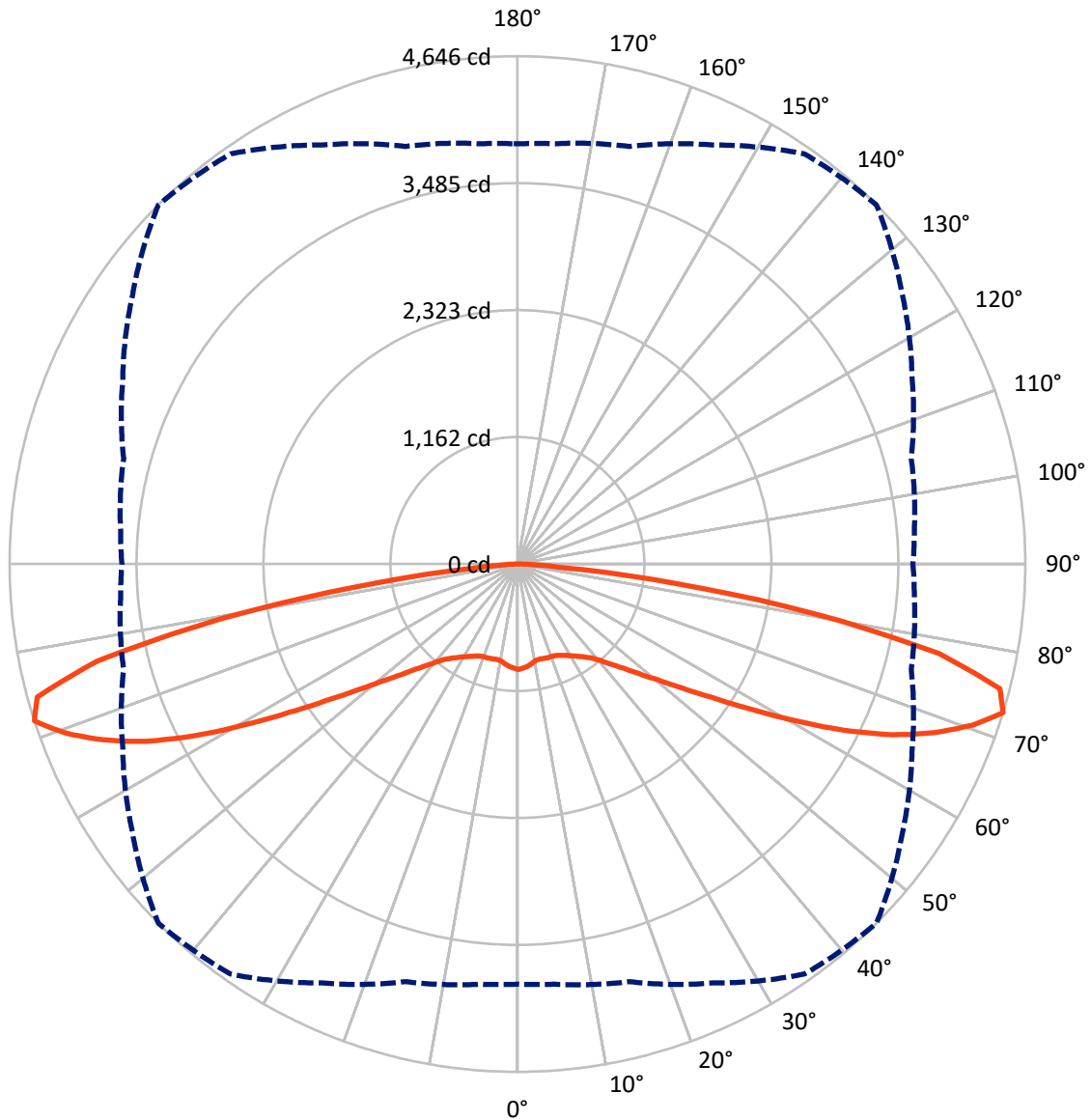
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 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	5856.0	0.0	5856.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5856.0	0.0	5856.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11712.0	0.0	11712.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	0.8
10°-20°	256.3	2.2
20°-30°	428.9	3.7
30°-40°	659.0	5.6
40°-50°	1091.1	9.3
50°-60°	1939.7	16.6
60°-70°	3393.5	29.0
70°-80°	3452.7	29.5
80°-90°	402.0	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°	11712.0	100.0
0°-180°	11712.0	100.0



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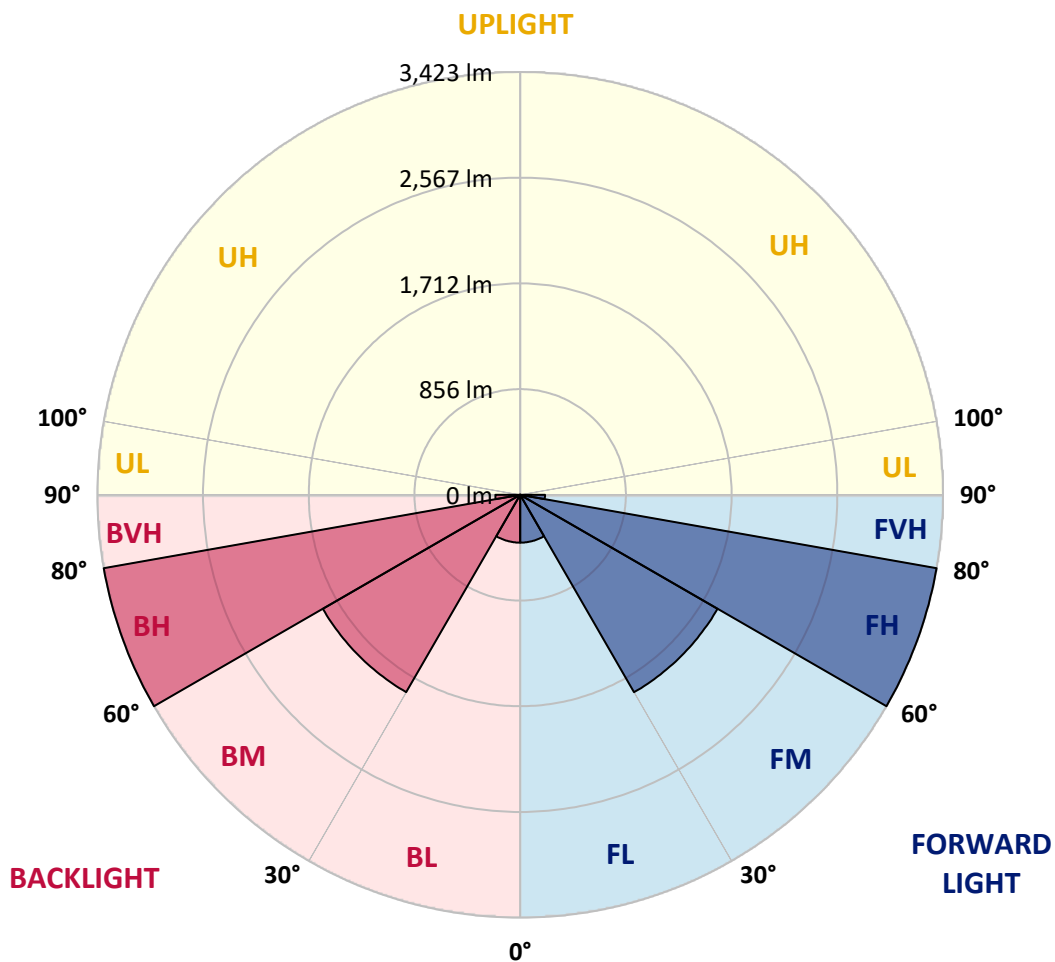
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.0	3.3			
FM	(30°-60°)	1844.9	15.8			
FH	(60°-80°)	3423.1	29.2			G2/5000
FVH	(80°-90°)	201.0	1.7			G2/225
BL	(0°-30°)	387.0	3.3	B1/500		
BM	(30°-60°)	1844.9	15.8	B2/2500		
BH	(60°-80°)	3423.1	29.2	B4/5000		G2/5000
BVH	(80°-90°)	201.0	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4
2.5°	956.4	958.6	954.2	954.2	954.2	951.9	954.2	951.9	954.2	956.4	956.4
5°	947.5	947.5	943.0	943.0	943.0	940.9	943.0	943.0	945.2	947.5	947.5
7.5°	927.4	927.4	925.3	923.0	920.8	920.8	923.0	923.0	925.3	927.4	927.4
10°	916.4	914.0	909.7	902.9	900.7	898.5	902.9	907.4	914.0	920.8	918.5
12.5°	911.8	909.7	900.7	894.1	889.5	891.7	896.1	900.7	911.8	918.5	916.4
15°	916.4	911.8	900.7	889.5	891.7	896.1	900.7	900.7	914.0	920.8	920.8
17.5°	916.4	914.0	900.7	891.7	894.1	900.7	902.9	900.7	911.8	923.0	923.0
20°	918.5	918.5	900.7	894.1	896.1	902.9	905.1	902.9	911.8	925.3	925.3
22.5°	923.0	920.8	902.9	898.5	902.9	907.4	909.7	907.4	916.4	927.4	929.7
25°	931.9	927.4	911.8	909.7	918.5	925.3	925.3	920.8	925.3	936.4	936.4
27.5°	943.0	940.9	923.0	923.0	934.1	947.5	940.9	931.9	936.4	947.5	947.5
30°	963.2	960.8	943.0	943.0	958.6	974.2	958.6	947.5	954.2	965.4	967.6
32.5°	992.1	992.1	976.5	972.1	998.7	1005.5	998.7	976.5	980.9	996.6	996.6
35°	1041.1	1036.6	1021.1	1018.9	1045.5	1043.4	1041.1	1021.1	1025.5	1043.4	1043.4
37.5°	1105.9	1103.6	1090.3	1083.4	1096.9	1087.9	1092.3	1083.4	1094.7	1108.0	1110.2
40°	1188.3	1186.0	1175.0	1166.0	1170.4	1157.0	1161.5	1166.0	1177.0	1186.0	1188.3
42.5°	1290.9	1290.9	1279.6	1264.0	1257.4	1250.7	1250.7	1259.7	1270.8	1281.9	1281.9
45°	1418.0	1418.0	1404.5	1388.9	1368.8	1357.7	1362.2	1371.2	1384.5	1397.9	1402.3
47.5°	1567.4	1567.4	1549.4	1533.9	1513.7	1500.3	1500.3	1504.9	1525.0	1536.1	1542.7
50°	1734.4	1727.8	1710.0	1694.4	1683.2	1665.4	1667.7	1665.4	1683.2	1698.9	1703.2
52.5°	1908.4	1906.2	1888.3	1883.8	1890.6	1881.6	1881.6	1859.3	1866.0	1874.9	1872.7
55°	2124.6	2117.9	2102.4	2111.2	2138.1	2151.4	2146.9	2111.2	2091.3	2095.7	2093.4
57.5°	2360.9	2354.3	2349.8	2376.6	2436.7	2492.4	2481.4	2398.8	2360.9	2363.3	2365.4
60°	2601.8	2601.8	2615.1	2682.0	2811.3	2902.8	2869.2	2731.0	2664.2	2650.8	2646.3
62.5°	2849.2	2855.9	2884.8	2996.3	3194.7	3346.4	3261.7	3065.5	2965.1	2938.4	2929.5
65°	3136.8	3143.4	3185.8	3324.1	3587.1	3767.8	3622.9	3437.8	3297.3	3241.7	3232.7
67.5°	3553.8	3558.1	3591.7	3725.5	3972.8	4117.7	3968.4	3803.5	3651.8	3587.1	3582.7
70°	3928.3	3932.7	3961.6	4137.9	4365.3	4416.4	4251.5	4042.0	3883.6	3832.3	3823.5
72.5°	3843.6	3859.2	3955.0	4229.2	4579.2	4646.2	4298.3	3984.1	3729.9	3645.1	3618.4
75°	3223.7	3248.4	3399.8	3812.3	4369.6	4559.2	4021.9	3444.6	3065.5	2902.8	2860.4
77.5°	1881.6	1973.0	2233.8	2762.3	3558.1	3943.9	3312.9	2521.5	1883.8	1616.3	1527.2
80°	515.0	564.0	753.6	1270.8	2231.7	2762.3	2113.5	1157.0	624.2	468.1	434.7
82.5°	162.8	216.2	274.3	365.6	876.1	1455.9	784.8	341.0	267.5	220.8	196.2
85°	87.0	93.7	153.8	178.4	263.1	408.0	243.0	178.4	160.4	118.1	111.5
87.5°	44.6	46.8	87.0	87.0	115.9	95.8	104.8	95.8	91.4	58.0	51.3
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)