

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: P236722

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236722
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
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 13790.4 lumens
Efficiency: N/A
Efficacy: 148.3 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 - G3

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

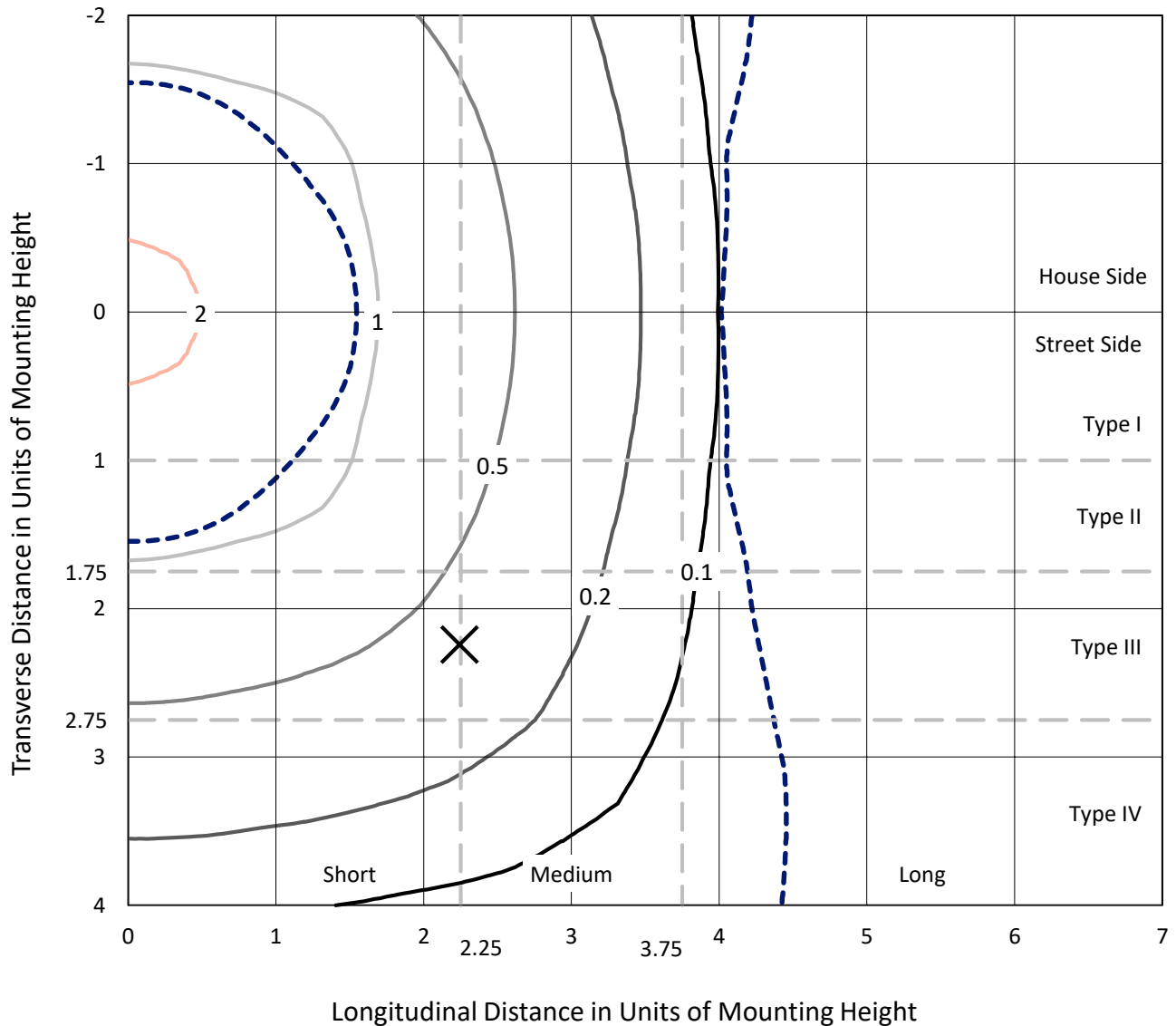


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

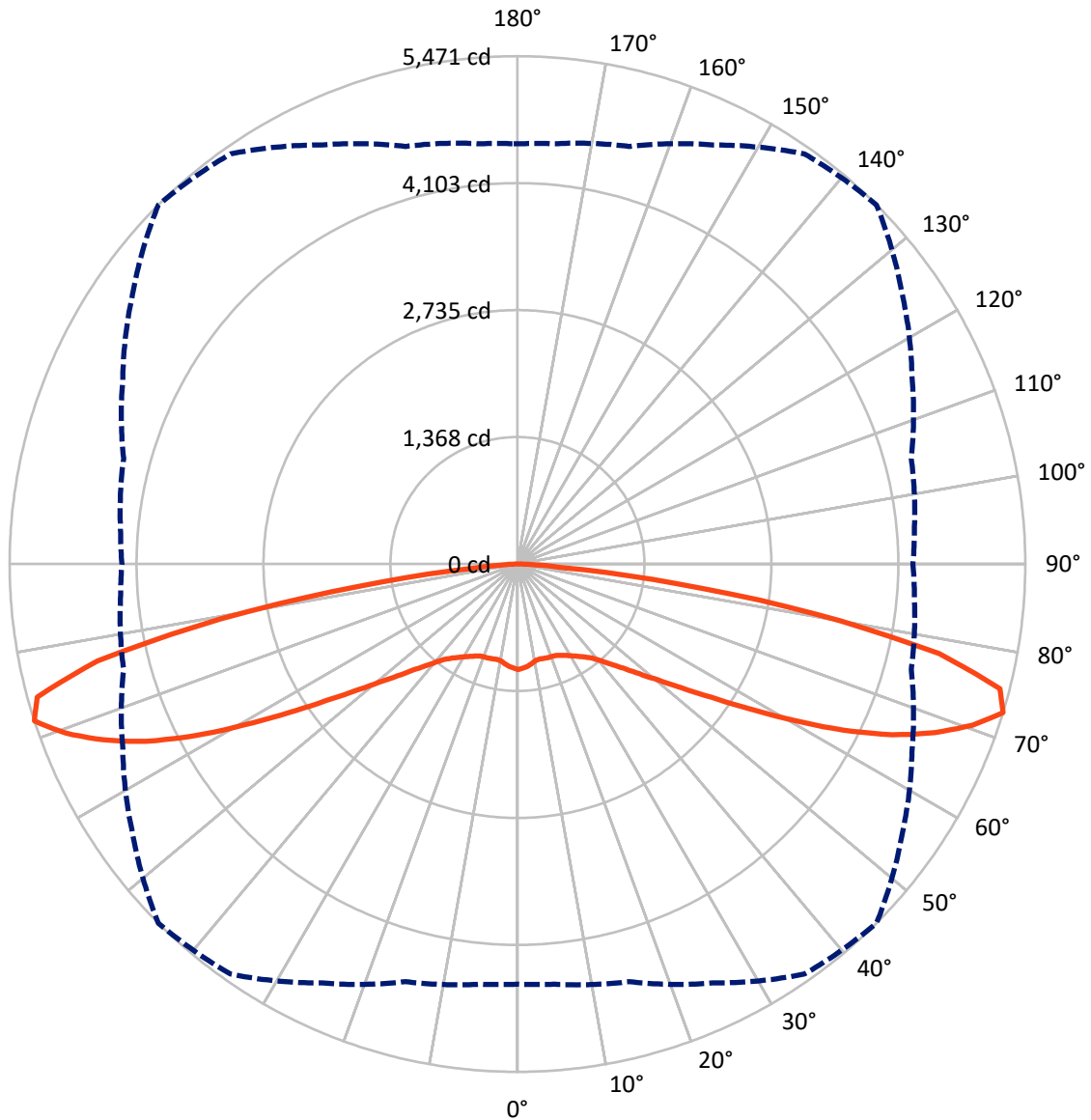


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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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	6895.2	0.0	6895.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6895.2	0.0	6895.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13790.4	0.0	13790.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	0.8
10°-20°	301.8	2.2
20°-30°	505.0	3.7
30°-40°	775.9	5.6
40°-50°	1284.7	9.3
50°-60°	2284.0	16.6
60°-70°	3995.8	29.0
70°-80°	4065.4	29.5
80°-90°	473.4	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°	13790.4	100.0
0°-180°	13790.4	100.0



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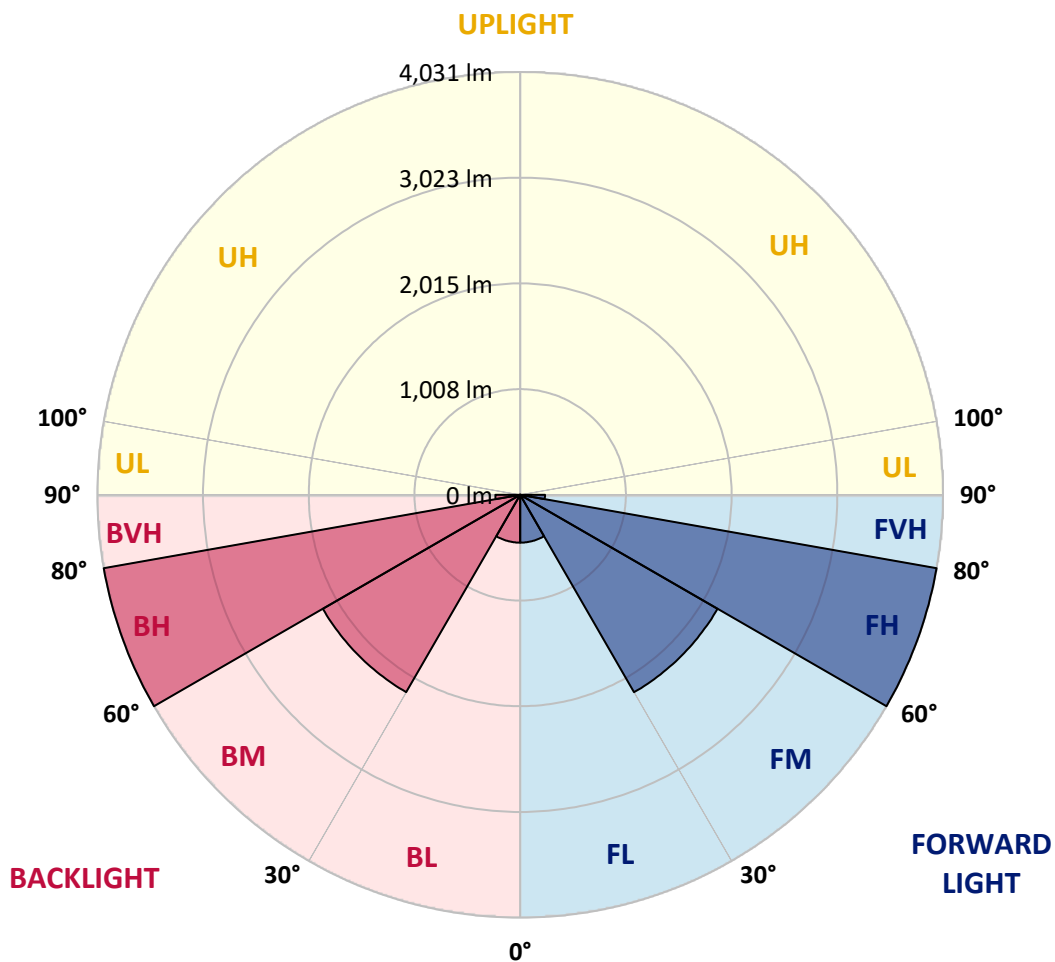
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.7	3.3			
FM	(30°-60°)	2172.3	15.8			
FH	(60°-80°)	4030.6	29.2			G2/5000
FVH	(80°-90°)	236.7	1.7			G3/500
BL	(0°-30°)	455.7	3.3	B1/500		
BM	(30°-60°)	2172.3	15.8	B2/2500		
BH	(60°-80°)	4030.6	29.2	B4/5000		G2/5000
BVH	(80°-90°)	236.7	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1126.2	1128.7	1123.5	1123.5	1123.5	1120.9	1123.5	1120.9	1123.5	1126.2	1126.2
5°	1115.6	1115.6	1110.4	1110.4	1110.4	1107.8	1110.4	1110.4	1113.1	1115.6	1115.6
7.5°	1092.0	1092.0	1089.4	1086.8	1084.1	1084.1	1086.8	1086.8	1089.4	1092.0	1092.0
10°	1078.9	1076.2	1071.0	1063.2	1060.5	1057.9	1063.2	1068.4	1076.2	1084.1	1081.6
12.5°	1073.7	1071.0	1060.5	1052.6	1047.4	1050.1	1055.3	1060.5	1073.7	1081.6	1078.9
15°	1078.9	1073.7	1060.5	1047.4	1050.1	1055.3	1060.5	1060.5	1076.2	1084.1	1084.1
17.5°	1078.9	1076.2	1060.5	1050.1	1052.6	1060.5	1063.2	1060.5	1073.7	1086.8	1086.8
20°	1081.6	1081.6	1060.5	1052.6	1055.3	1063.2	1065.8	1063.2	1073.7	1089.4	1089.4
22.5°	1086.8	1084.1	1063.2	1057.9	1063.2	1068.4	1071.0	1068.4	1078.9	1092.0	1094.7
25°	1097.3	1092.0	1073.7	1071.0	1081.6	1089.4	1089.4	1084.1	1089.4	1102.5	1102.5
27.5°	1110.4	1107.8	1086.8	1086.8	1099.9	1115.6	1107.8	1097.3	1102.5	1115.6	1115.6
30°	1134.0	1131.4	1110.4	1110.4	1128.7	1147.1	1128.7	1115.6	1123.5	1136.6	1139.3
32.5°	1168.1	1168.1	1149.8	1144.5	1176.0	1183.9	1176.0	1149.8	1155.0	1173.4	1173.4
35°	1225.9	1220.7	1202.3	1199.6	1231.1	1228.6	1225.9	1202.3	1207.5	1228.6	1228.6
37.5°	1302.0	1299.4	1283.7	1275.8	1291.6	1281.0	1286.3	1275.8	1288.9	1304.7	1307.2
40°	1399.2	1396.5	1383.4	1372.9	1378.1	1362.4	1367.7	1372.9	1386.0	1396.5	1399.2
42.5°	1519.9	1519.9	1506.8	1488.4	1480.5	1472.6	1472.6	1483.2	1496.3	1509.4	1509.4
45°	1669.6	1669.6	1653.8	1635.4	1611.8	1598.7	1603.9	1614.4	1630.2	1645.9	1651.1
47.5°	1845.4	1845.4	1824.4	1806.0	1782.4	1766.6	1766.6	1772.0	1795.6	1808.7	1816.6
50°	2042.3	2034.4	2013.4	1995.1	1982.0	1960.9	1963.6	1960.9	1982.0	2000.3	2005.5
52.5°	2247.0	2244.5	2223.4	2218.2	2226.0	2215.5	2215.5	2189.3	2197.2	2207.6	2205.1
55°	2501.7	2493.9	2475.4	2486.0	2517.4	2533.1	2527.9	2486.0	2462.3	2467.6	2464.9
57.5°	2780.0	2772.1	2766.8	2798.3	2869.2	2934.8	2921.6	2824.6	2780.0	2782.5	2785.2
60°	3063.4	3063.4	3079.2	3158.0	3310.2	3417.8	3378.4	3215.6	3137.0	3121.2	3115.9
62.5°	3354.9	3362.7	3396.8	3528.1	3761.7	3940.2	3840.5	3609.5	3491.3	3459.8	3449.3
65°	3693.5	3701.3	3751.2	3913.9	4223.8	4436.3	4265.7	4047.8	3882.5	3816.8	3806.3
67.5°	4184.4	4189.6	4229.0	4386.5	4677.9	4848.5	4672.6	4478.4	4299.9	4223.8	4218.4
70°	4625.4	4630.6	4664.8	4872.1	5139.8	5200.3	5006.0	4759.2	4572.9	4512.4	4502.0
72.5°	4525.6	4543.9	4656.9	4979.7	5391.9	5470.6	5061.2	4690.9	4391.7	4292.0	4260.5
75°	3795.9	3824.7	4003.2	4488.8	5145.1	5368.2	4735.6	4055.7	3609.5	3417.8	3368.0
77.5°	2215.5	2323.2	2630.3	3252.5	4189.6	4643.7	3900.8	2968.9	2218.2	1903.2	1798.1
80°	606.4	664.1	887.3	1496.3	2627.7	3252.5	2488.5	1362.4	735.0	551.3	511.9
82.5°	191.6	254.6	322.8	430.6	1031.6	1714.2	924.0	401.6	315.0	259.8	231.0
85°	102.4	110.3	181.2	210.0	309.7	480.4	286.1	210.0	189.0	139.1	131.2
87.5°	52.5	55.1	102.4	102.4	136.5	112.8	123.4	112.8	107.6	68.2	60.4
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)