

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: P400496

Luminaire Tested: **ARCH-L-PA3-90-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 14588 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

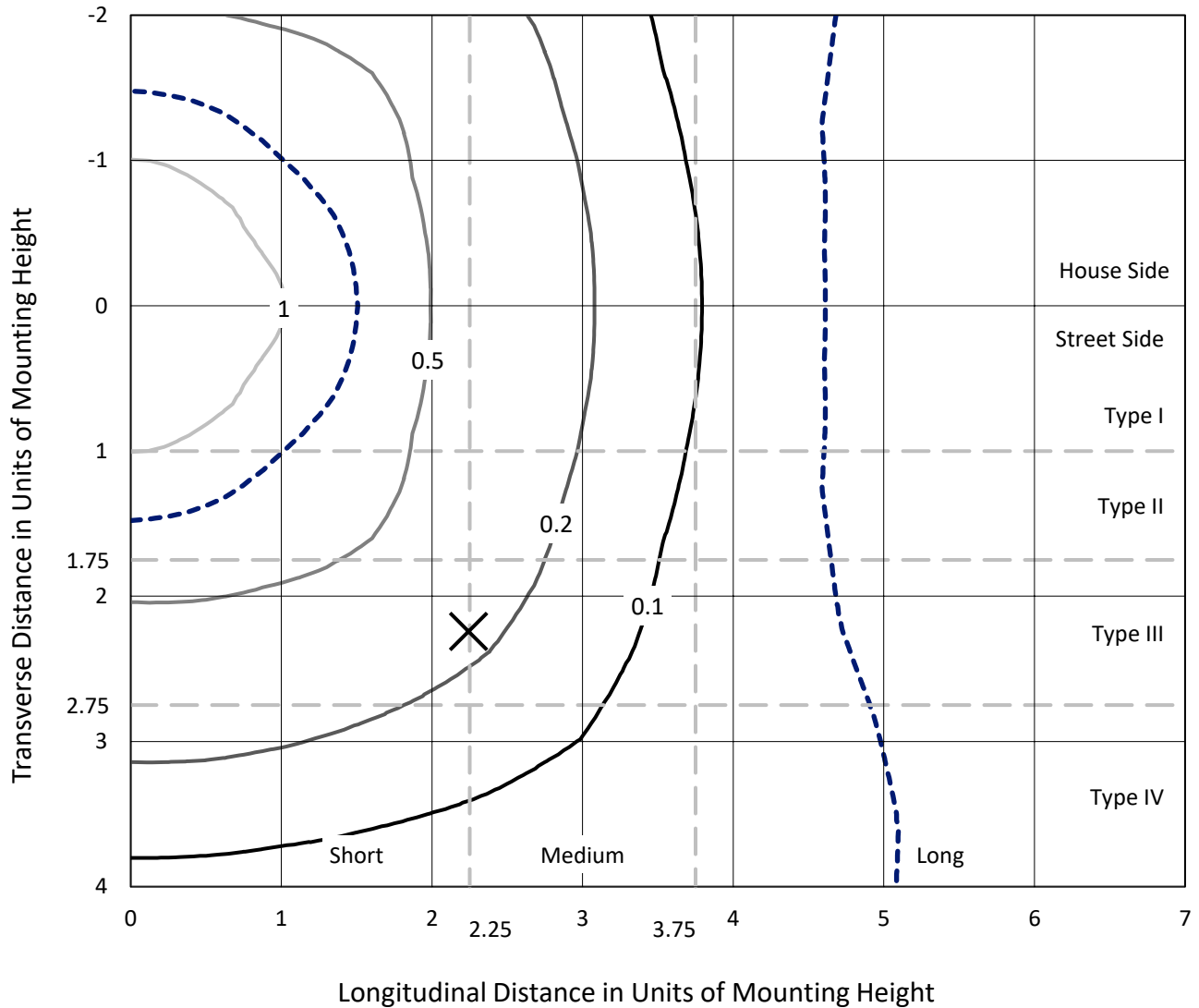
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

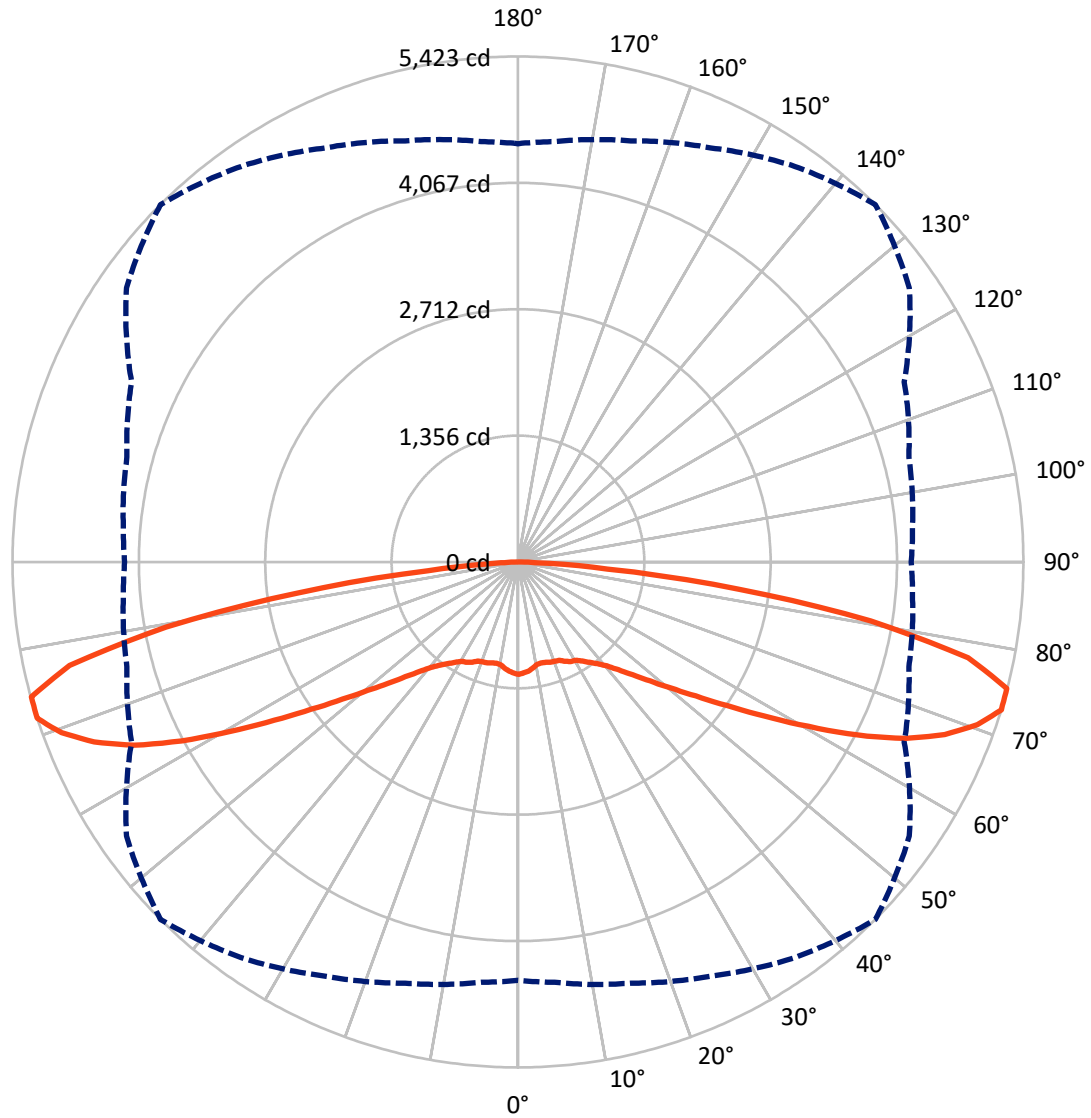
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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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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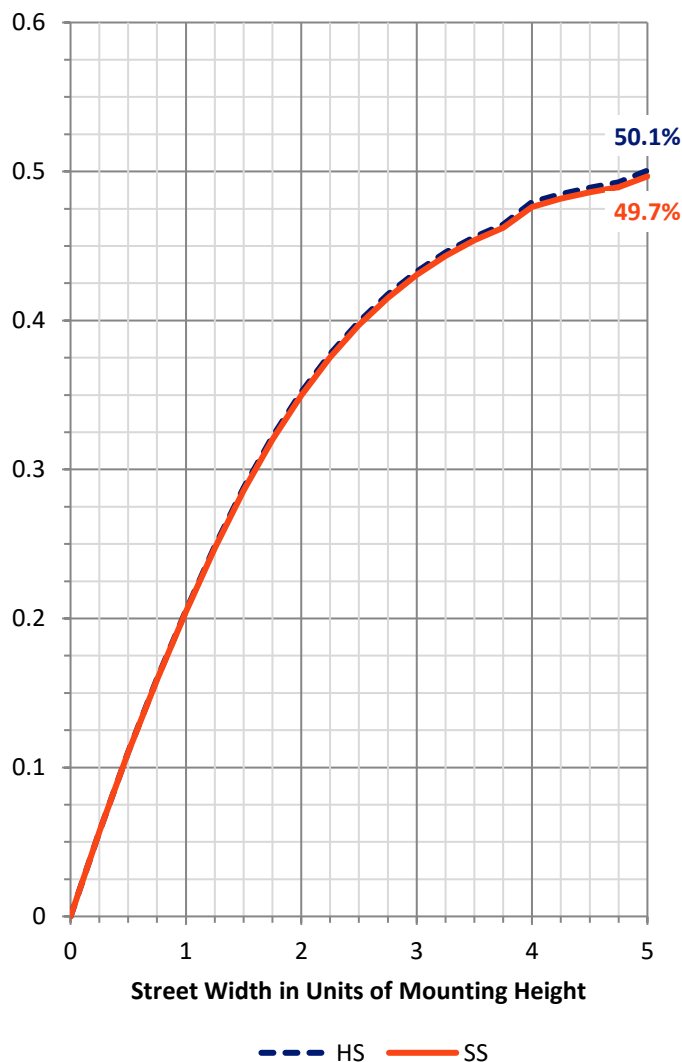
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7294.0	0.0	7294.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7294.0	0.0	7294.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14588.0	0.0	14588.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	0.8
10°-20°	321.3	2.2
20°-30°	546.0	3.7
30°-40°	832.7	5.7
40°-50°	1371.2	9.4
50°-60°	2394.5	16.4
60°-70°	4014.5	27.5
70°-80°	4296.3	29.5
80°-90°	700.7	4.8
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°	14588.0	100.0
0°-180°	14588.0	100.0



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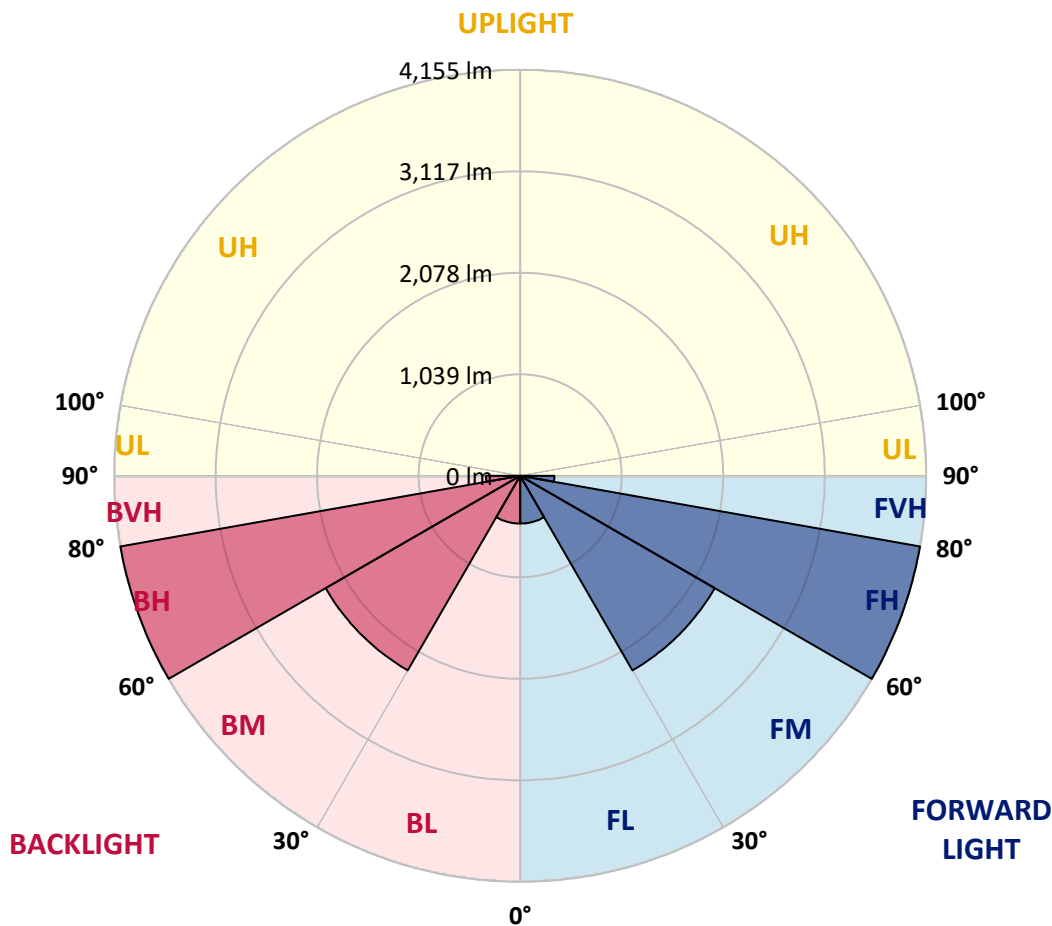
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.0	3.4			
FM (30°-60°)	2299.2	15.8			
FH (60°-80°)	4155.4	28.5			G2/5000
FVH (80°-90°)	350.4	2.4			G3/500
BL (0°-30°)	489.0	3.4	B1/500		
BM (30°-60°)	2299.2	15.8	B2/2500		
BH (60°-80°)	4155.4	28.5	B4/5000		G2/5000
BVH (80°-90°)	350.4	2.4			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°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1199.7	1199.7	1199.7	1197.9	1194.1	1192.3	1188.5	1190.4	1190.4	1190.4	1190.4
5°	1184.8	1184.8	1183.0	1181.1	1177.4	1175.5	1171.8	1175.5	1175.5	1175.5	1175.5
7.5°	1156.9	1158.7	1158.7	1156.9	1151.3	1149.4	1143.8	1145.7	1145.7	1147.6	1145.7
10°	1142.0	1142.0	1140.1	1130.8	1121.5	1117.8	1115.9	1121.5	1127.1	1132.7	1132.7
12.5°	1142.0	1142.0	1138.2	1123.3	1110.3	1110.3	1110.3	1117.8	1128.9	1140.1	1142.0
15°	1147.6	1147.6	1140.1	1123.3	1115.9	1117.8	1117.8	1125.2	1138.2	1153.1	1155.0
17.5°	1151.3	1151.3	1142.0	1125.2	1125.2	1130.8	1127.1	1132.7	1145.7	1162.5	1164.3
20°	1156.9	1156.9	1143.8	1130.8	1130.8	1136.4	1136.4	1142.0	1153.1	1169.9	1171.8
22.5°	1168.1	1166.2	1153.1	1142.0	1142.0	1145.7	1149.4	1156.9	1166.2	1181.1	1184.8
25°	1181.1	1181.1	1169.9	1168.1	1171.8	1181.1	1179.2	1177.4	1181.1	1194.1	1199.7
27.5°	1188.5	1188.5	1181.1	1186.7	1201.6	1209.0	1199.7	1192.3	1192.3	1205.3	1207.2
30°	1212.8	1210.9	1203.4	1207.2	1220.2	1223.9	1218.4	1209.0	1214.6	1229.5	1231.4
32.5°	1253.7	1253.7	1242.6	1242.6	1251.9	1266.8	1248.2	1242.6	1250.0	1266.8	1268.6
35°	1317.1	1317.1	1302.2	1294.7	1302.2	1322.7	1294.7	1292.9	1305.9	1324.5	1326.4
37.5°	1397.2	1397.2	1387.9	1369.2	1371.1	1384.2	1359.9	1358.1	1382.3	1402.8	1402.8
40°	1497.8	1503.4	1494.1	1471.7	1464.3	1466.1	1447.5	1449.4	1477.3	1501.5	1501.5
42.5°	1622.6	1626.3	1611.4	1594.7	1585.3	1579.8	1561.1	1564.9	1598.4	1630.1	1630.1
45°	1773.5	1775.4	1760.5	1740.0	1728.8	1725.1	1706.4	1715.8	1753.0	1786.5	1784.7
47.5°	1943.0	1944.9	1930.0	1909.5	1902.0	1907.6	1889.0	1889.0	1922.5	1950.5	1946.8
50°	2134.9	2138.6	2121.9	2112.6	2107.0	2121.9	2099.5	2079.0	2101.4	2129.3	2125.6
52.5°	2347.3	2356.6	2345.4	2349.1	2369.6	2388.3	2351.0	2306.3	2317.5	2336.1	2330.5
55°	2604.4	2615.5	2619.3	2632.3	2686.3	2718.0	2656.5	2582.0	2576.4	2578.3	2569.0
57.5°	2893.1	2900.6	2924.8	2954.6	3066.4	3116.7	3019.8	2891.3	2850.3	2826.1	2820.5
60°	3183.7	3196.8	3256.4	3317.9	3489.3	3580.5	3431.5	3215.4	3127.8	3083.1	3073.8
62.5°	3476.2	3502.3	3599.2	3703.5	3953.1	4089.1	3860.0	3547.0	3420.3	3364.4	3349.5
65°	3815.3	3846.9	3964.3	4096.6	4374.1	4566.0	4288.4	3889.8	3753.8	3679.3	3660.6
67.5°	4212.1	4245.6	4340.6	4487.8	4750.5	4938.6	4692.7	4240.0	4063.0	3968.0	3953.1
70°	4538.1	4567.9	4670.3	4819.4	5015.0	5229.2	4994.5	4519.4	4359.2	4292.2	4282.9
72.5°	4487.8	4526.9	4677.8	4901.3	5180.8	5423.0	5126.8	4573.5	4342.5	4249.3	4219.5
75°	3919.6	3962.4	4141.3	4545.5	5056.0	5417.4	4934.9	4213.9	3941.9	3863.7	3848.8
77.5°	2595.0	2636.0	2937.8	3574.9	4415.1	4936.7	4355.5	3530.2	3092.4	2904.3	2893.1
80°	1048.8	1101.0	1389.7	2066.0	3129.7	3837.6	3230.3	2259.7	1523.9	1229.5	1169.9
82.5°	244.0	290.6	422.9	761.9	1602.1	2390.1	1741.8	843.9	489.9	348.4	313.0
85°	102.5	104.3	180.7	247.8	501.1	965.0	570.1	307.4	249.6	182.6	178.8
87.5°	39.1	41.0	87.6	104.3	160.2	182.6	193.7	158.3	147.2	91.3	87.6
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)