

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: P399119

Luminaire Tested: **ARCH-L-PA3-100-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399119
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-PA3-100-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14425 lumens
Efficiency: N/A
Efficacy: 141.4 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

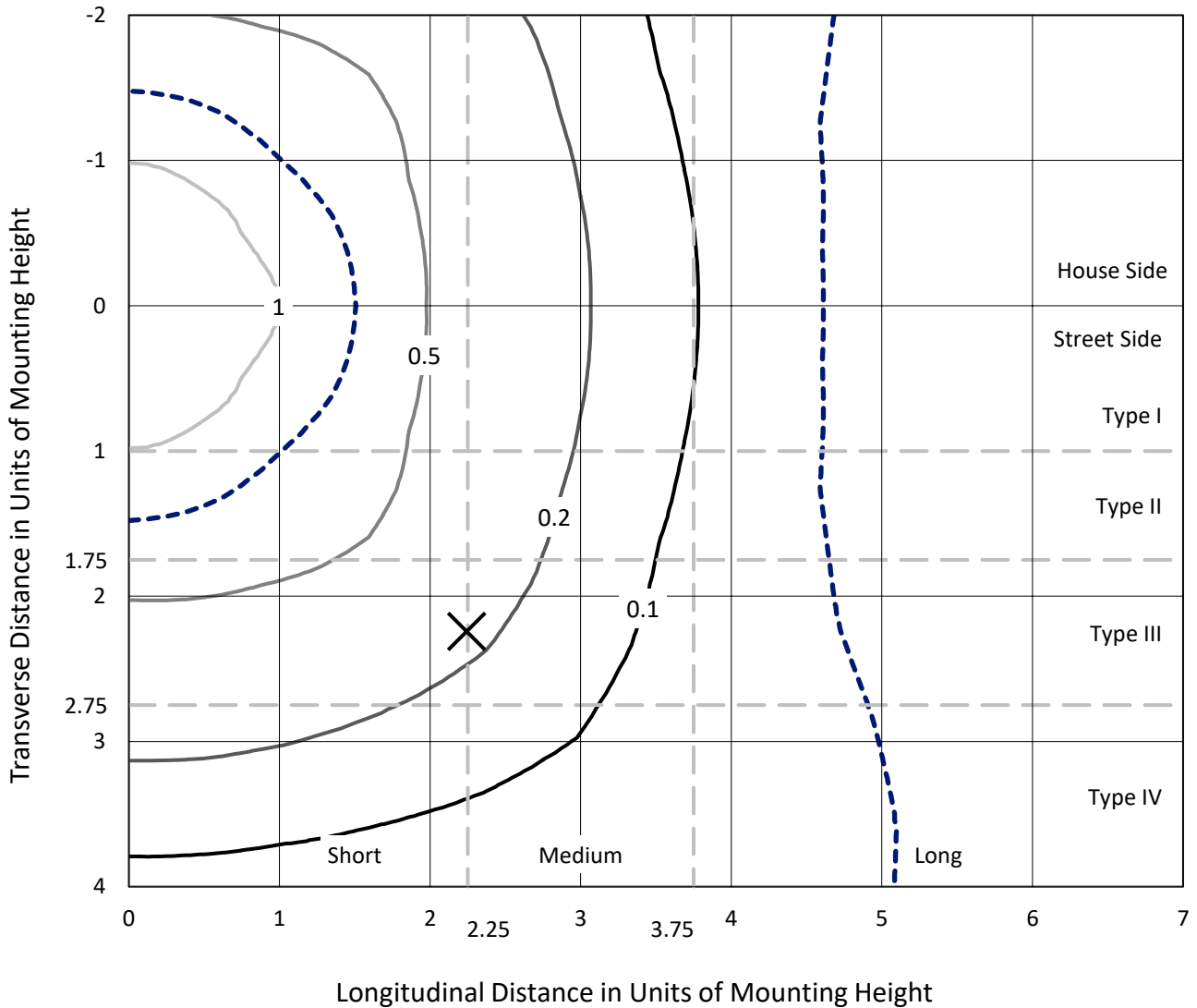
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

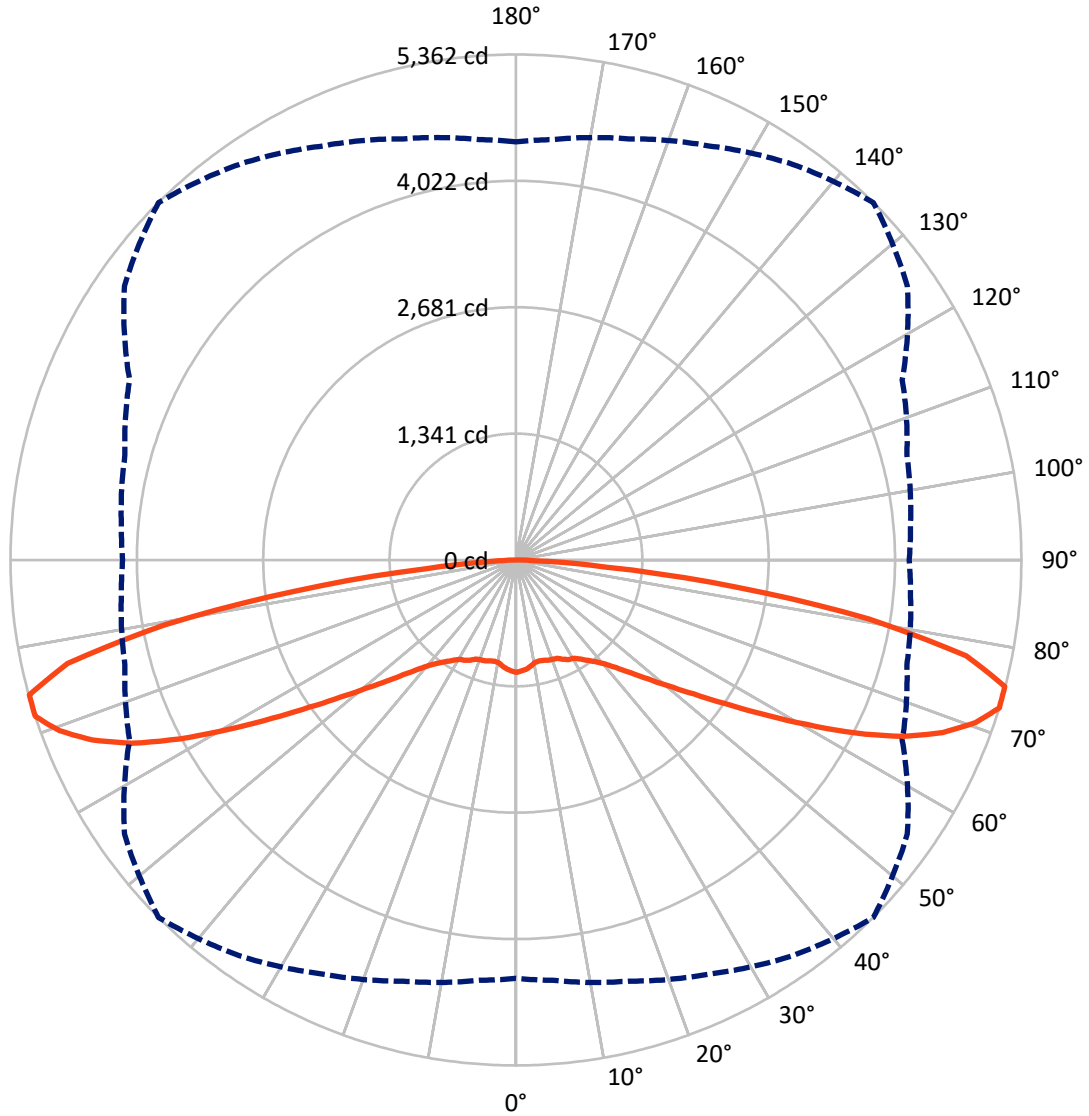
✕ Max cd
 - - - 1/2 Max cd



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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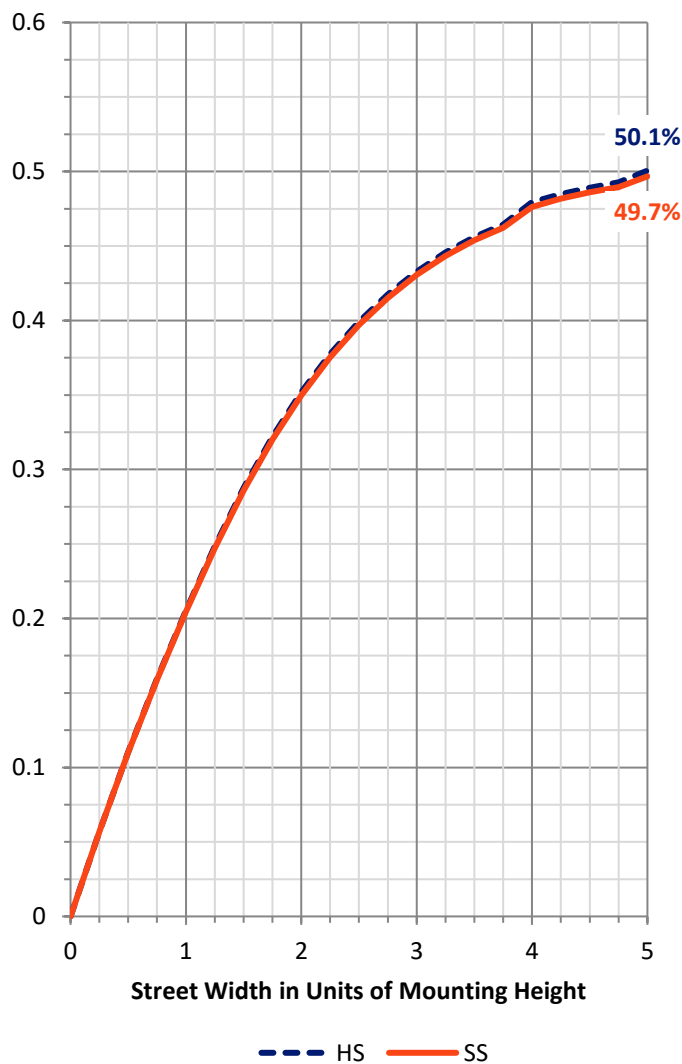
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7212.5	0.0	7212.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7212.5	0.0	7212.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14425.0	0.0	14425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	0.8
10°-20°	317.7	2.2
20°-30°	539.9	3.7
30°-40°	823.4	5.7
40°-50°	1355.9	9.4
50°-60°	2367.8	16.4
60°-70°	3969.6	27.5
70°-80°	4248.3	29.5
80°-90°	692.9	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°	14425.0	100.0
0°-180°	14425.0	100.0

Coefficient of Utilization

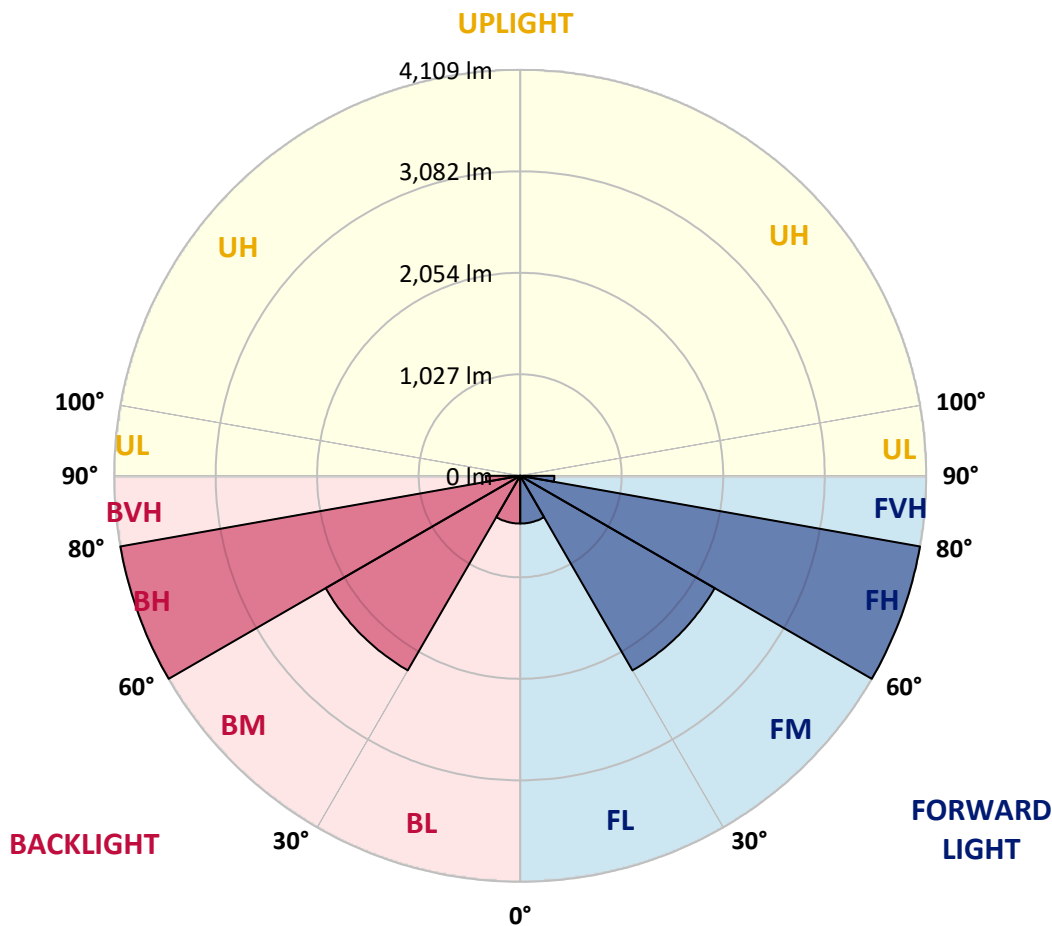


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.5	3.4			
FM (30°-60°)	2273.6	15.8			
FH (60°-80°)	4109.0	28.5			G2/5000
FVH (80°-90°)	346.4	2.4			G3/500
BL (0°-30°)	483.5	3.4	B1/500		
BM (30°-60°)	2273.6	15.8	B2/2500		
BH (60°-80°)	4109.0	28.5	B4/5000		G2/5000
BVH (80°-90°)	346.4	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°	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7
2.5°	1186.3	1186.3	1186.3	1184.5	1180.8	1178.9	1175.3	1177.1	1177.1	1177.1	1177.1
5°	1171.6	1171.6	1169.7	1167.9	1164.2	1162.4	1158.7	1162.4	1162.4	1162.4	1162.4
7.5°	1143.9	1145.8	1145.8	1143.9	1138.4	1136.6	1131.1	1132.9	1132.9	1134.7	1132.9
10°	1129.2	1129.2	1127.4	1118.2	1108.9	1105.3	1103.4	1108.9	1114.5	1120.0	1120.0
12.5°	1129.2	1129.2	1125.5	1110.8	1097.9	1097.9	1097.9	1105.3	1116.3	1127.4	1129.2
15°	1134.7	1134.7	1127.4	1110.8	1103.4	1105.3	1105.3	1112.6	1125.5	1140.3	1142.1
17.5°	1138.4	1138.4	1129.2	1112.6	1112.6	1118.2	1114.5	1120.0	1132.9	1149.5	1151.3
20°	1143.9	1143.9	1131.1	1118.2	1118.2	1123.7	1123.7	1129.2	1140.3	1156.8	1158.7
22.5°	1155.0	1153.2	1140.3	1129.2	1129.2	1132.9	1136.6	1143.9	1153.2	1167.9	1171.6
25°	1167.9	1167.9	1156.8	1155.0	1158.7	1167.9	1166.1	1164.2	1167.9	1180.8	1186.3
27.5°	1175.3	1175.3	1167.9	1173.4	1188.2	1195.5	1186.3	1178.9	1178.9	1191.8	1193.7
30°	1199.2	1197.4	1190.0	1193.7	1206.6	1210.3	1204.7	1195.5	1201.1	1215.8	1217.6
32.5°	1239.7	1239.7	1228.7	1228.7	1237.9	1252.6	1234.2	1228.7	1236.1	1252.6	1254.5
35°	1302.4	1302.4	1287.6	1280.3	1287.6	1307.9	1280.3	1278.4	1291.3	1309.7	1311.6
37.5°	1381.6	1381.6	1372.4	1353.9	1355.8	1368.7	1344.7	1342.9	1366.8	1387.1	1387.1
40°	1481.1	1486.6	1477.4	1455.3	1447.9	1449.7	1431.3	1433.2	1460.8	1484.7	1484.7
42.5°	1604.5	1608.2	1593.4	1576.8	1567.6	1562.1	1543.7	1547.4	1580.5	1611.8	1611.8
45°	1753.7	1755.5	1740.8	1720.5	1709.5	1705.8	1687.4	1696.6	1733.4	1766.6	1764.7
47.5°	1921.3	1923.2	1908.4	1888.2	1880.8	1886.3	1867.9	1867.9	1901.1	1928.7	1925.0
50°	2111.1	2114.7	2098.2	2088.9	2083.4	2098.2	2076.1	2055.8	2077.9	2105.5	2101.8
52.5°	2321.1	2330.3	2319.2	2322.9	2343.2	2361.6	2324.7	2280.5	2291.6	2310.0	2304.5
55°	2575.3	2586.3	2590.0	2602.9	2656.3	2687.6	2626.8	2553.2	2547.6	2549.5	2540.3
57.5°	2860.8	2868.2	2892.1	2921.6	3032.1	3081.8	2986.1	2858.9	2818.4	2794.5	2788.9
60°	3148.2	3161.1	3220.0	3280.8	3450.3	3540.5	3393.2	3179.5	3092.9	3048.7	3039.5
62.5°	3437.4	3463.2	3558.9	3662.1	3908.9	4043.4	3816.8	3507.4	3382.1	3326.8	3312.1
65°	3772.6	3803.9	3920.0	4050.8	4325.3	4515.0	4240.5	3846.3	3711.8	3638.2	3619.7
67.5°	4165.0	4198.2	4292.1	4437.6	4697.4	4883.4	4640.3	4192.6	4017.6	3923.7	3908.9
70°	4487.4	4516.8	4618.2	4765.5	4958.9	5170.8	4938.7	4468.9	4310.5	4244.2	4235.0
72.5°	4437.6	4476.3	4625.5	4846.6	5122.9	5362.4	5069.5	4522.4	4293.9	4201.8	4172.4
75°	3875.8	3918.2	4095.0	4494.7	4999.5	5356.8	4879.7	4166.8	3897.9	3820.5	3805.8
77.5°	2566.1	2606.6	2905.0	3535.0	4365.8	4881.6	4306.8	3490.8	3057.9	2871.8	2860.8
80°	1037.1	1088.7	1374.2	2042.9	3094.7	3794.7	3194.2	2234.5	1506.8	1215.8	1156.8
82.5°	241.3	287.4	418.2	753.4	1584.2	2363.4	1722.4	834.5	484.5	344.5	309.5
85°	101.3	103.2	178.7	245.0	495.5	954.2	563.7	303.9	246.8	180.5	176.8
87.5°	38.7	40.5	86.6	103.2	158.4	180.5	191.6	156.6	145.5	90.3	86.6
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)