

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: P459557

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-AMB-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3977 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

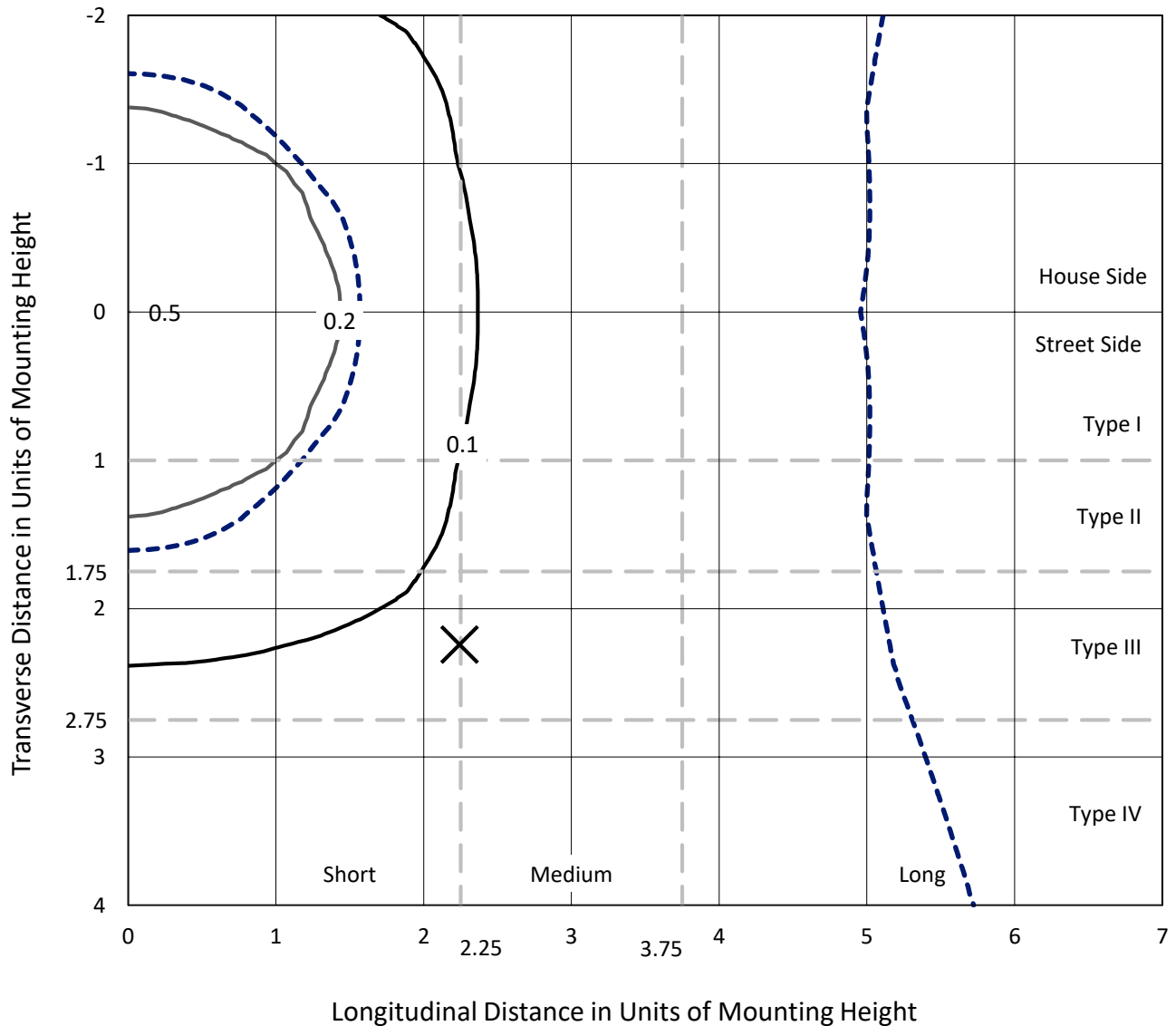
Input Watts (W): 89.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

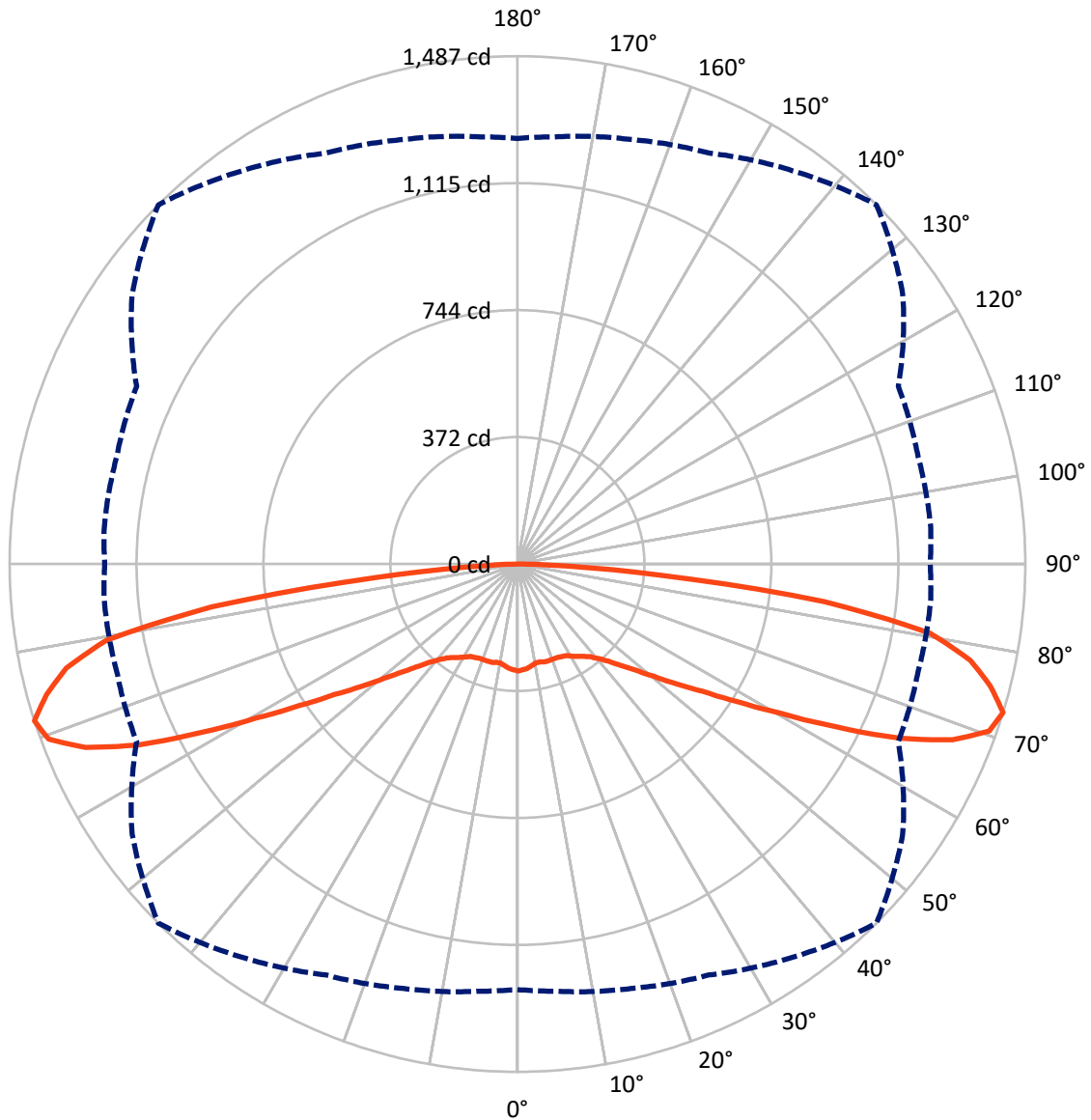
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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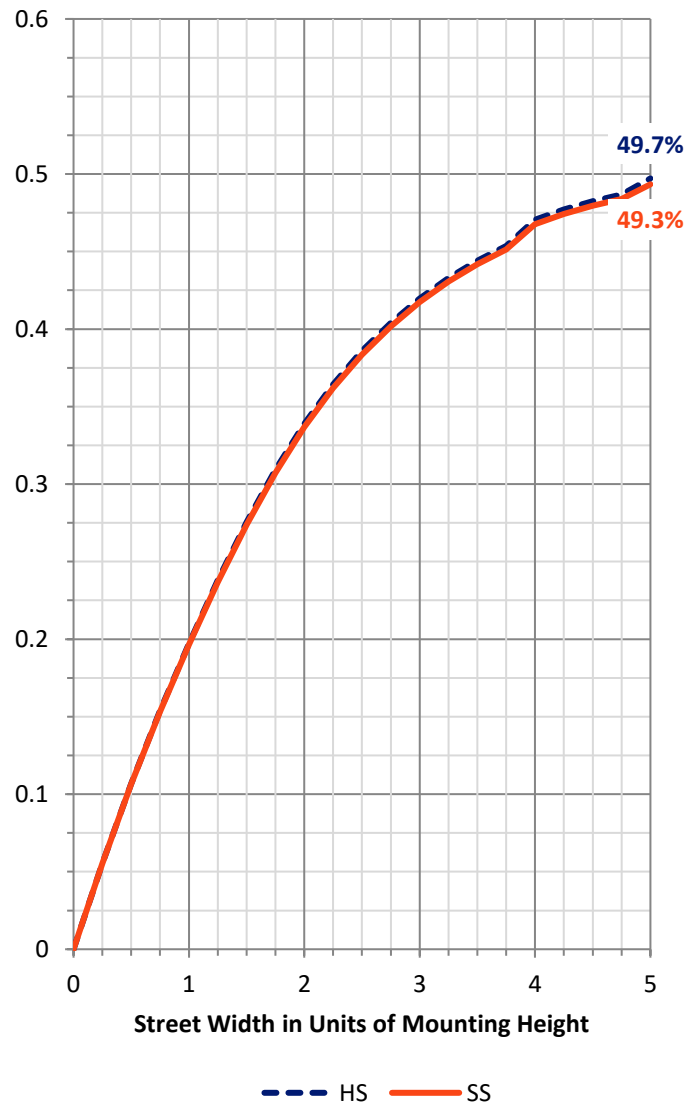
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1988.5	0.0	1988.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1988.5	0.0	1988.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3977.0	0.0	3977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.7
10°-20°	84.5	2.1
20°-30°	140.1	3.5
30°-40°	209.6	5.3
40°-50°	337.3	8.5
50°-60°	596.1	15.0
60°-70°	1063.3	26.7
70°-80°	1254.3	31.5
80°-90°	262.8	6.6
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°	3977.0	100.0
0°-180°	3977.0	100.0



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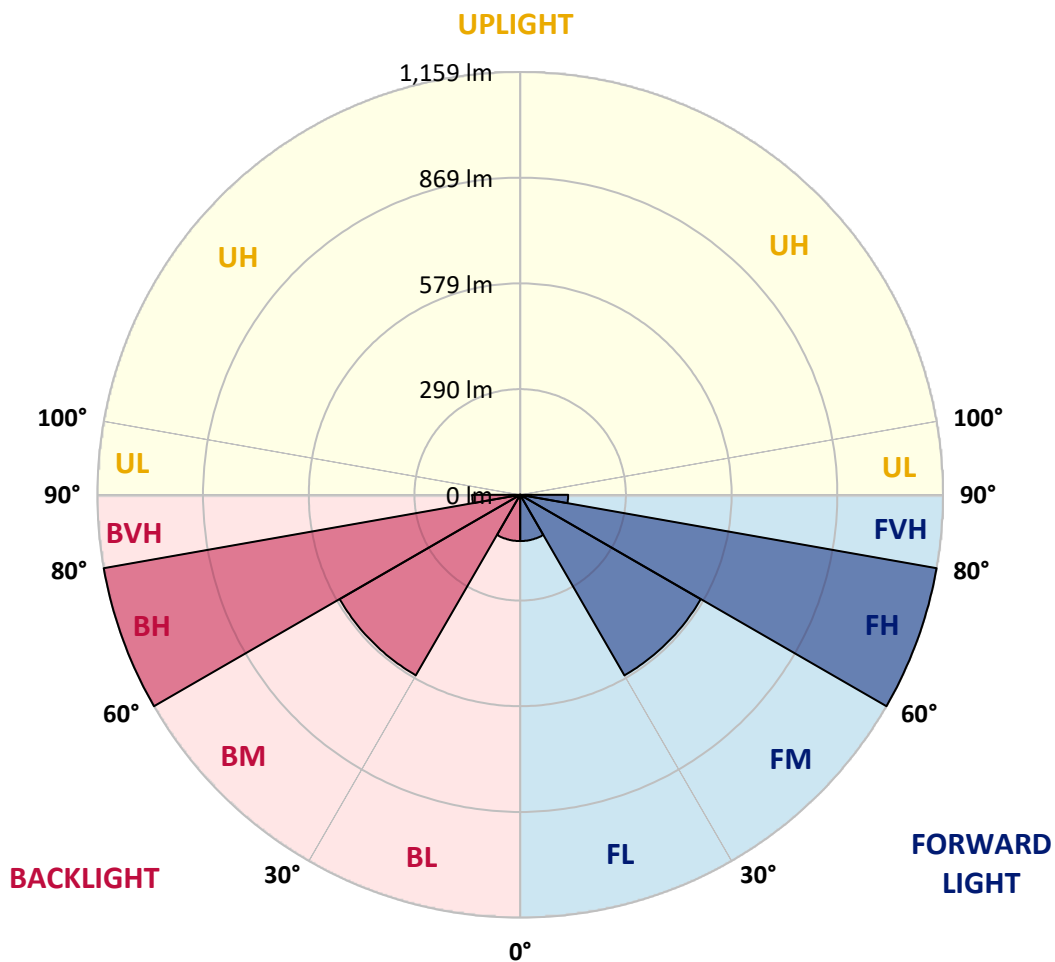
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.8	3.2			
FM (30°-60°)	571.5	14.4			
FH (60°-80°)	1158.8	29.1			G1/1800
FVH (80°-90°)	131.4	3.3			G2/225
BL (0°-30°)	126.8	3.2	B1/500		
BM (30°-60°)	571.5	14.4	B1/1000		
BH (60°-80°)	1158.8	29.1	B3/2500		G1/1800
BVH (80°-90°)	131.4	3.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1
2.5°	313.1	313.1	313.1	313.1	309.9	309.9	309.9	309.9	309.9	309.9	309.9
5°	313.1	313.1	313.1	309.9	309.9	306.8	306.8	306.8	306.8	306.8	306.8
7.5°	306.8	306.8	303.7	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6
10°	303.7	303.7	300.6	297.4	294.3	294.3	294.3	297.4	297.4	300.6	300.6
12.5°	303.7	303.7	297.4	294.3	294.3	294.3	294.3	294.3	297.4	303.7	303.7
15°	303.7	303.7	297.4	294.3	294.3	294.3	294.3	294.3	297.4	303.7	303.7
17.5°	303.7	303.7	297.4	294.3	297.4	297.4	297.4	297.4	300.6	306.8	306.8
20°	303.7	303.7	297.4	294.3	297.4	297.4	297.4	297.4	300.6	306.8	306.8
22.5°	303.7	303.7	297.4	294.3	297.4	297.4	297.4	297.4	300.6	306.8	309.9
25°	303.7	303.7	297.4	297.4	297.4	300.6	300.6	300.6	303.7	309.9	309.9
27.5°	306.8	303.7	300.6	300.6	303.7	303.7	303.7	303.7	303.7	313.1	313.1
30°	313.1	309.9	306.8	306.8	306.8	313.1	306.8	306.8	309.9	319.3	322.5
32.5°	319.3	316.2	313.1	313.1	316.2	322.5	313.1	313.1	319.3	328.7	331.9
35°	331.9	328.7	325.6	322.5	328.7	331.9	325.6	325.6	331.9	341.3	344.4
37.5°	350.6	347.5	344.4	338.1	344.4	344.4	344.4	341.3	347.5	356.9	360.0
40°	375.7	372.6	366.3	360.0	363.2	363.2	360.0	360.0	369.4	375.7	378.8
42.5°	400.7	400.7	391.3	391.3	388.2	388.2	385.1	385.1	394.5	407.0	407.0
45°	438.3	435.2	425.8	422.7	419.5	422.7	422.7	419.5	435.2	447.7	450.8
47.5°	479.0	472.8	466.5	460.2	460.2	463.4	463.4	466.5	479.0	494.7	497.8
50°	526.0	522.8	513.5	510.3	510.3	516.6	519.7	516.6	529.1	544.8	547.9
52.5°	579.2	576.1	569.8	566.7	569.8	582.3	582.3	576.1	585.5	598.0	598.0
55°	641.8	641.8	635.6	635.6	648.1	657.5	660.6	644.9	654.3	663.7	663.7
57.5°	720.1	720.1	717.0	720.1	745.1	760.8	757.7	732.6	738.9	742.0	745.1
60°	810.9	810.9	814.0	826.5	864.1	889.1	876.6	835.9	826.5	823.4	823.4
62.5°	907.9	907.9	917.3	948.6	1001.9	1051.9	1017.5	948.6	920.5	907.9	907.9
65°	998.7	995.6	1020.6	1064.5	1149.0	1230.4	1170.9	1061.3	1017.5	1001.9	1001.9
67.5°	1089.5	1086.4	1120.8	1177.2	1274.2	1374.4	1302.4	1152.1	1095.8	1077.0	1070.7
70°	1180.3	1180.3	1211.6	1268.0	1365.0	1465.2	1380.7	1205.4	1155.3	1139.6	1136.5
72.5°	1246.1	1255.5	1286.8	1327.5	1405.7	1487.1	1377.6	1230.4	1214.7	1214.7	1208.5
75°	1205.4	1221.0	1252.3	1318.1	1386.9	1430.8	1346.2	1233.5	1224.1	1242.9	1242.9
77.5°	929.8	951.8	1011.2	1142.7	1289.9	1355.6	1277.4	1124.0	1020.6	998.7	954.9
80°	441.4	472.8	557.3	738.9	1055.1	1224.1	1045.7	757.7	572.9	491.5	469.6
82.5°	122.1	147.1	206.6	331.9	613.6	904.8	638.7	341.3	206.6	156.5	137.8
85°	34.4	34.4	65.7	109.6	212.9	416.4	250.5	119.0	81.4	56.4	56.4
87.5°	15.7	15.7	28.2	31.3	50.1	81.4	59.5	40.7	40.7	25.0	25.0
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)