

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: P400487

Luminaire Tested: **ARCH-L-PA3-90-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400487
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-PA3-90-727-U-5WQ
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: 13396 lumens
Efficiency: N/A
Efficacy: 144.0 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

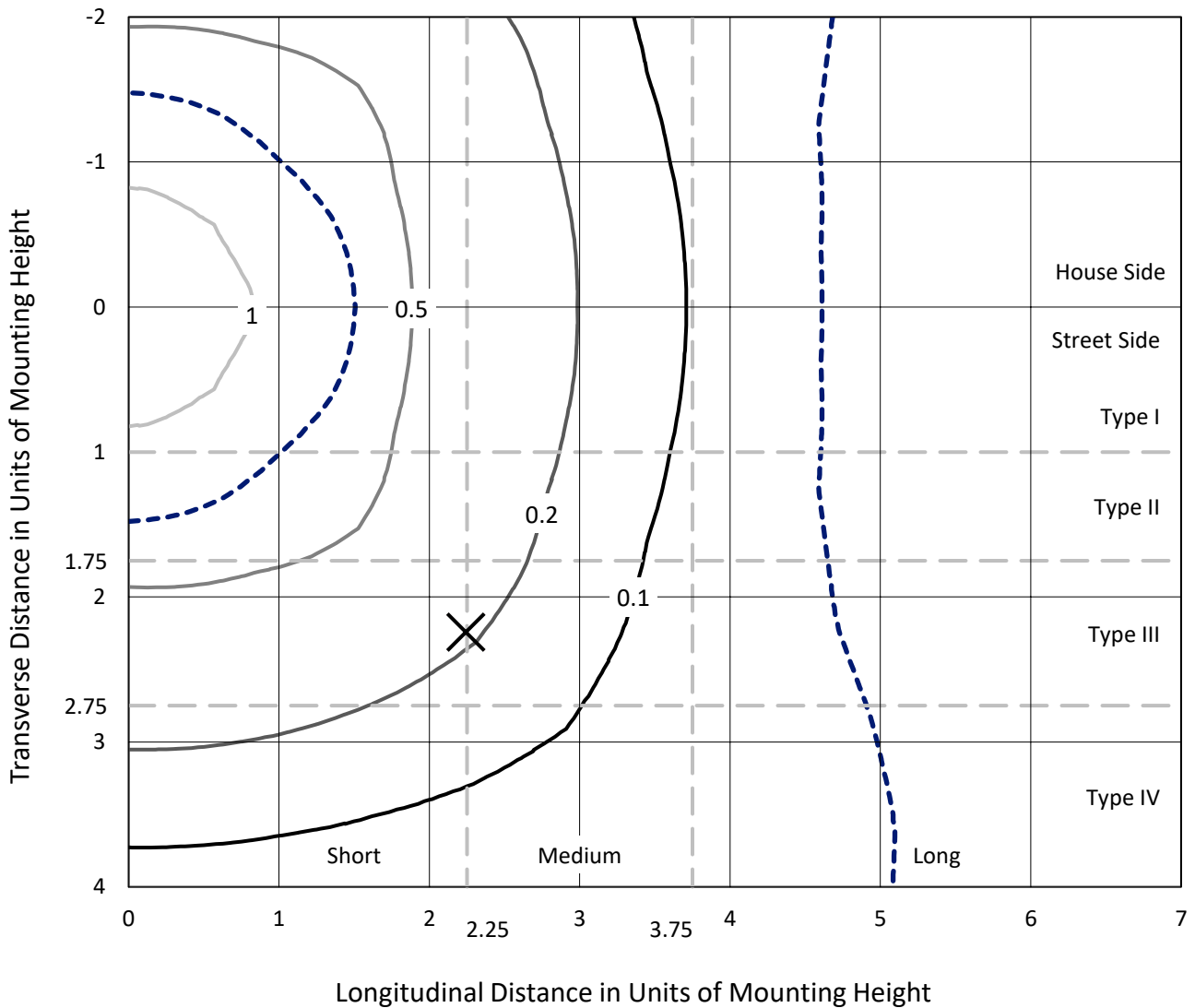
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

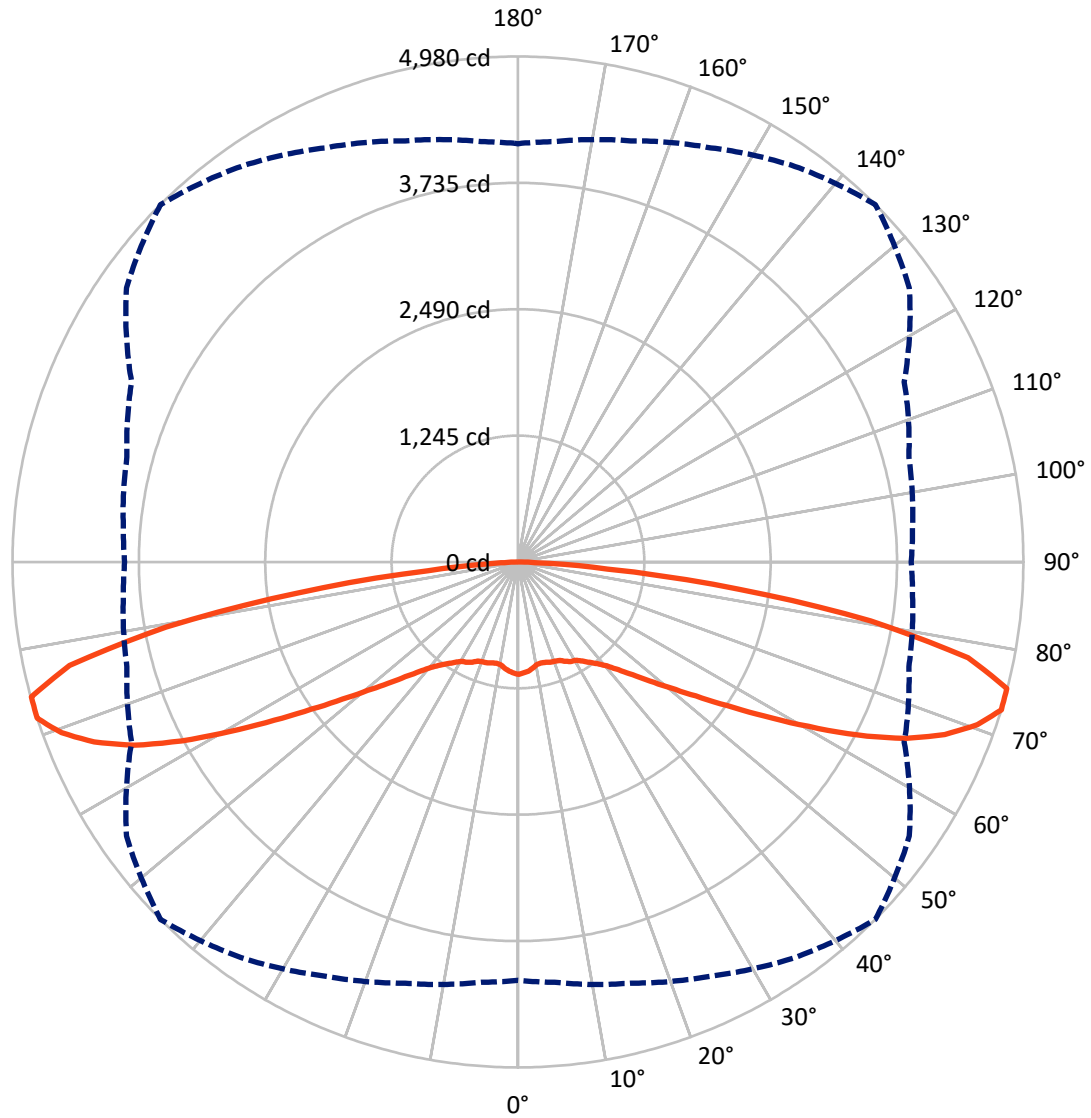
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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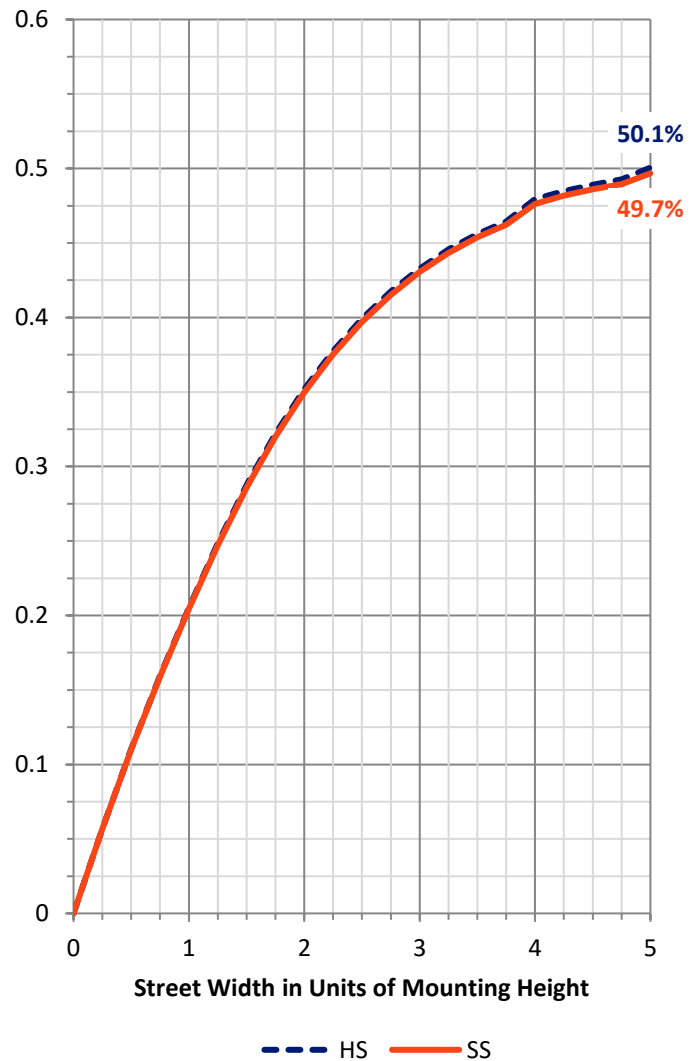
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6698.0	0.0	6698.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6698.0	0.0	6698.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13396.0	0.0	13396.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	0.8
10°-20°	295.1	2.2
20°-30°	501.4	3.7
30°-40°	764.7	5.7
40°-50°	1259.2	9.4
50°-60°	2198.9	16.4
60°-70°	3686.5	27.5
70°-80°	3945.3	29.5
80°-90°	643.5	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°	13396.0	100.0
0°-180°	13396.0	100.0



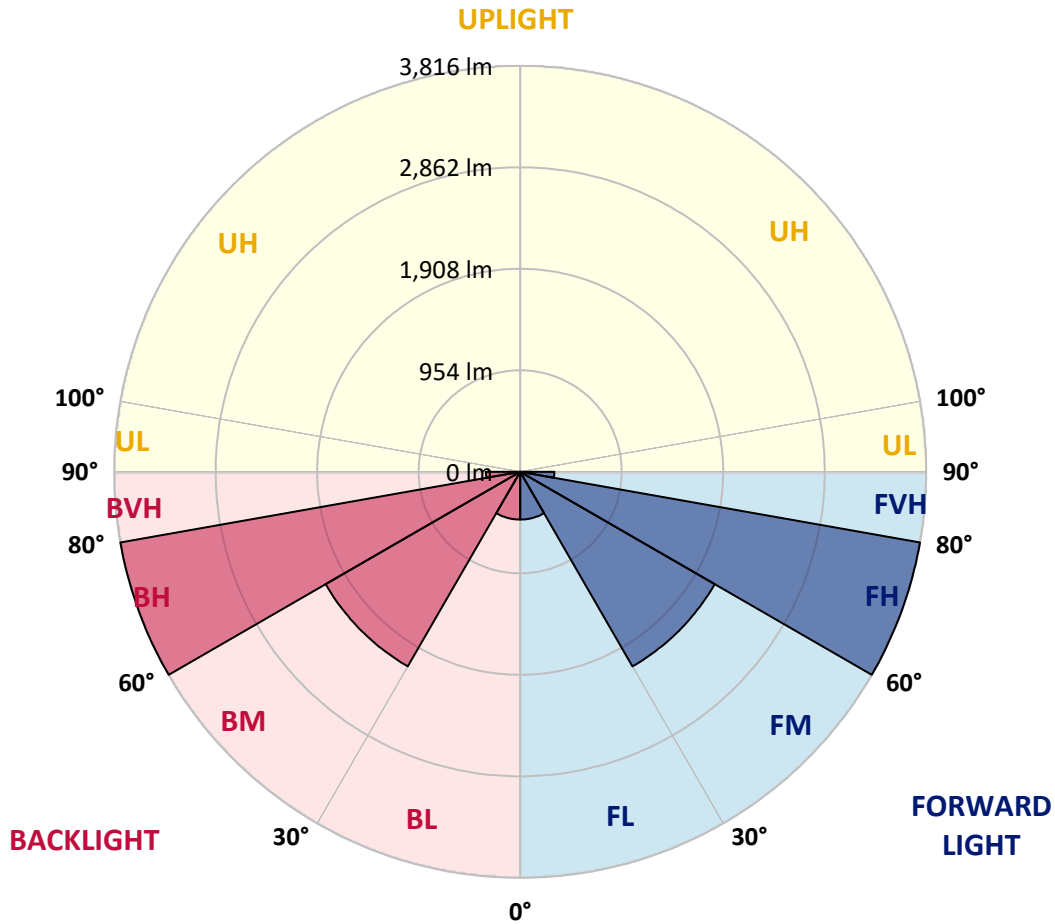
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.0	3.4			
FM (30°-60°)	2111.4	15.8			
FH (60°-80°)	3815.9	28.5			G2/5000
FVH (80°-90°)	321.7	2.4			G3/500
BL (0°-30°)	449.0	3.4	B1/500		
BM (30°-60°)	2111.4	15.8	B2/2500		
BH (60°-80°)	3815.9	28.5	B4/5000		G2/5000
BVH (80°-90°)	321.7	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°	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5
2.5°	1101.7	1101.7	1101.7	1100.0	1096.6	1094.8	1091.4	1093.1	1093.1	1093.1	1093.1
5°	1088.0	1088.0	1086.3	1084.6	1081.2	1079.5	1076.0	1079.5	1079.5	1079.5	1079.5
7.5°	1062.3	1064.1	1064.1	1062.3	1057.2	1055.5	1050.4	1052.1	1052.1	1053.8	1052.1
10°	1048.7	1048.7	1046.9	1038.4	1029.8	1026.4	1024.7	1029.8	1035.0	1040.1	1040.1
12.5°	1048.7	1048.7	1045.2	1031.6	1019.6	1019.6	1019.6	1026.4	1036.7	1046.9	1048.7
15°	1053.8	1053.8	1046.9	1031.6	1024.7	1026.4	1026.4	1033.3	1045.2	1058.9	1060.6
17.5°	1057.2	1057.2	1048.7	1033.3	1033.3	1038.4	1035.0	1040.1	1052.1	1067.5	1069.2
20°	1062.3	1062.3	1050.4	1038.4	1038.4	1043.5	1043.5	1048.7	1058.9	1074.3	1076.0
22.5°	1072.6	1070.9	1058.9	1048.7	1048.7	1052.1	1055.5	1062.3	1070.9	1084.6	1088.0
25°	1084.6	1084.6	1074.3	1072.6	1076.0	1084.6	1082.9	1081.2	1084.6	1096.6	1101.7
27.5°	1091.4	1091.4	1084.6	1089.7	1103.4	1110.2	1101.7	1094.8	1094.8	1106.8	1108.5
30°	1113.7	1112.0	1105.1	1108.5	1120.5	1123.9	1118.8	1110.2	1115.4	1129.1	1130.8
32.5°	1151.3	1151.3	1141.0	1141.0	1149.6	1163.3	1146.2	1141.0	1147.9	1163.3	1165.0
35°	1209.5	1209.5	1195.8	1188.9	1195.8	1214.6	1188.9	1187.2	1199.2	1216.3	1218.0
37.5°	1283.0	1283.0	1274.5	1257.4	1259.1	1271.1	1248.8	1247.1	1269.3	1288.2	1288.2
40°	1375.4	1380.5	1372.0	1351.5	1344.6	1346.3	1329.2	1330.9	1356.6	1378.8	1378.8
42.5°	1490.0	1493.4	1479.8	1464.4	1455.8	1450.7	1433.6	1437.0	1467.8	1496.9	1496.9
45°	1628.6	1630.3	1616.6	1597.8	1587.5	1584.1	1567.0	1575.6	1609.8	1640.6	1638.9
47.5°	1784.3	1786.0	1772.3	1753.5	1746.6	1751.8	1734.7	1734.7	1765.4	1791.1	1787.7
50°	1960.5	1963.9	1948.5	1939.9	1934.8	1948.5	1928.0	1909.1	1929.7	1955.3	1951.9
52.5°	2155.5	2164.0	2153.8	2157.2	2176.0	2193.1	2158.9	2117.8	2128.1	2145.2	2140.1
55°	2391.6	2401.8	2405.2	2417.2	2466.8	2495.9	2439.5	2371.0	2365.9	2367.6	2359.1
57.5°	2656.7	2663.6	2685.8	2713.2	2815.8	2862.0	2773.0	2655.0	2617.4	2595.1	2590.0
60°	2923.6	2935.6	2990.3	3046.8	3204.1	3288.0	3151.1	2952.7	2872.3	2831.2	2822.7
62.5°	3192.2	3216.1	3305.1	3400.9	3630.1	3755.0	3544.6	3257.2	3140.8	3089.5	3075.8
65°	3503.5	3532.6	3640.4	3761.8	4016.7	4192.9	3938.0	3571.9	3447.1	3378.6	3361.5
67.5°	3867.9	3898.7	3985.9	4121.1	4362.3	4535.1	4309.3	3893.6	3731.0	3643.8	3630.1
70°	4167.3	4194.6	4288.7	4425.6	4605.2	4801.9	4586.4	4150.2	4003.0	3941.5	3932.9
72.5°	4121.1	4157.0	4295.6	4500.9	4757.5	4979.8	4707.8	4199.8	3987.6	3902.1	3874.7
75°	3599.3	3638.7	3802.9	4174.1	4642.8	4974.7	4531.6	3869.6	3619.8	3548.0	3534.3
77.5°	2383.0	2420.6	2697.8	3282.8	4054.4	4533.4	3999.6	3241.8	2839.8	2667.0	2656.7
80°	963.1	1011.0	1276.2	1897.2	2874.0	3524.0	2966.4	2075.1	1399.4	1129.1	1074.3
82.5°	224.1	266.9	388.3	699.7	1471.2	2194.8	1599.5	774.9	449.9	319.9	287.4
85°	94.1	95.8	165.9	227.5	460.2	886.1	523.5	282.3	229.2	167.6	164.2
87.5°	35.9	37.6	80.4	95.8	147.1	167.6	177.9	145.4	135.1	83.8	80.4
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)