

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: P397805

Luminaire Tested: **ARCH-S-PA1-40-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397805
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-S-PA1-40-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4954 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

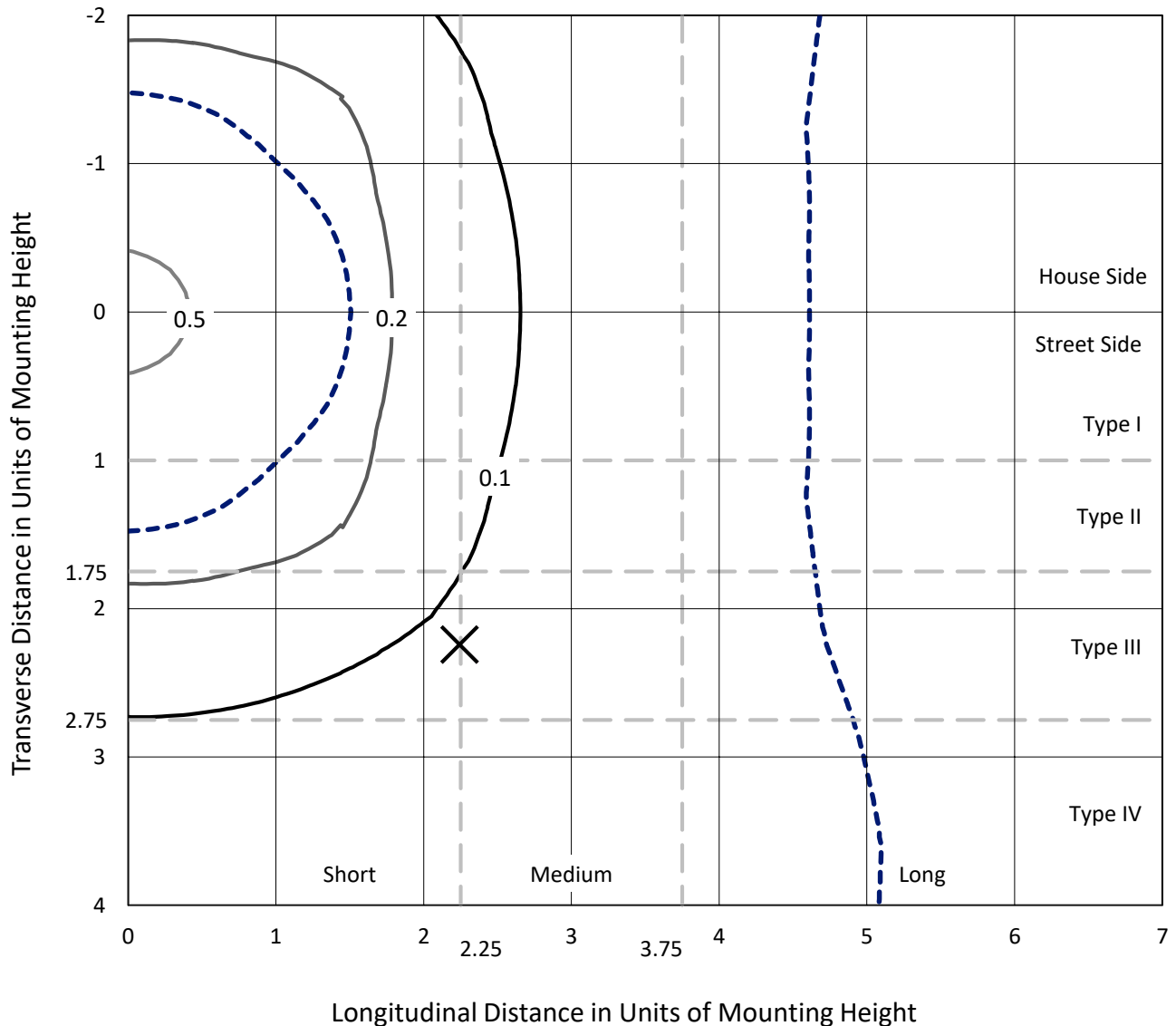
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

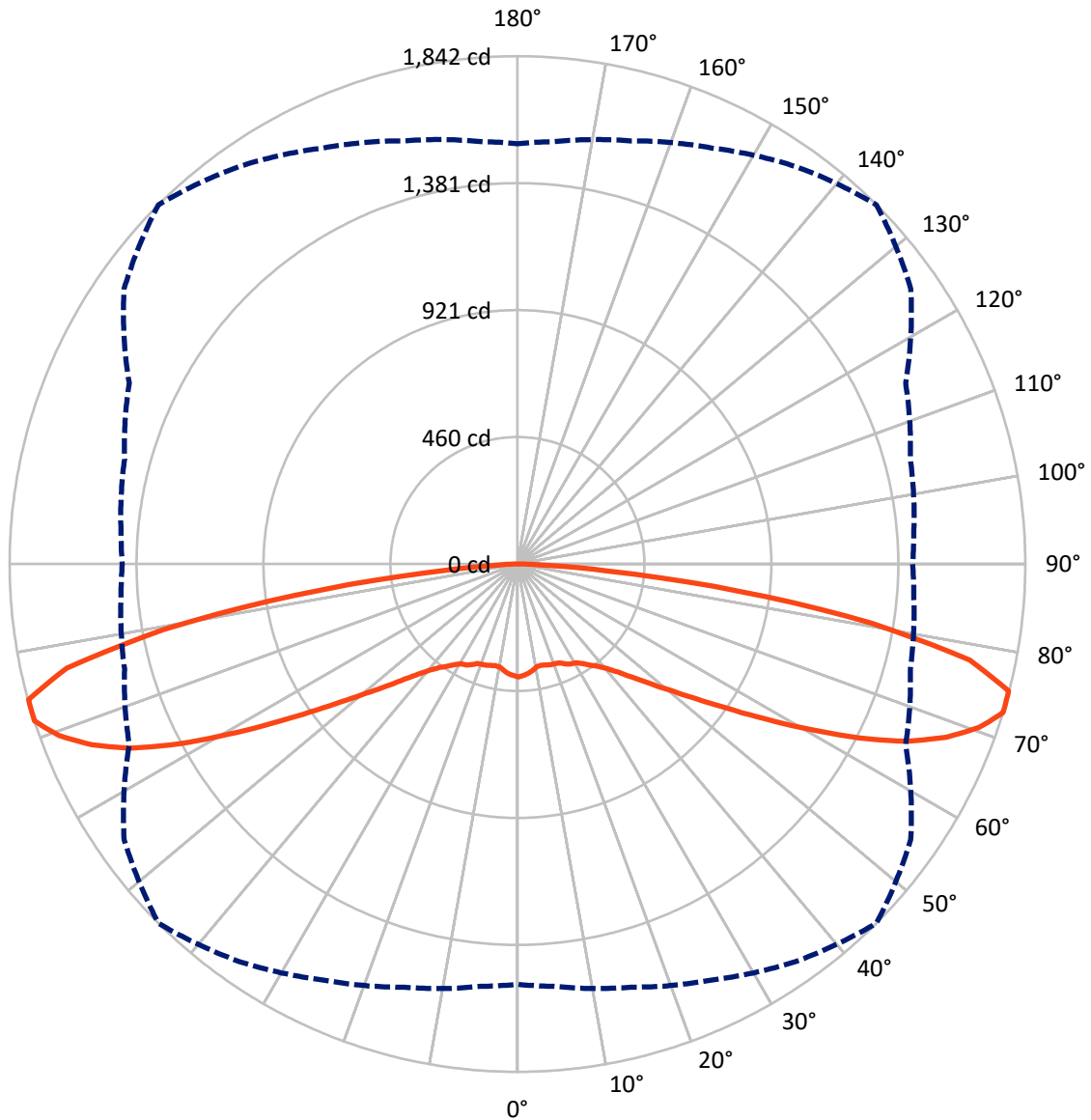
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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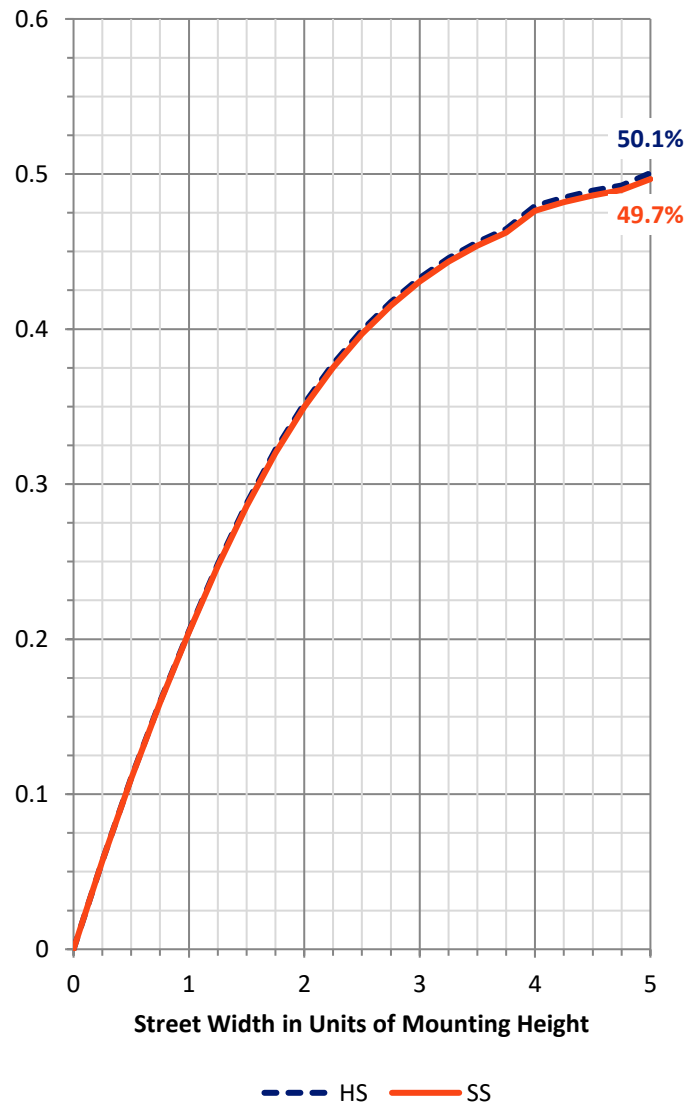
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2477.0	0.0	2477.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2477.0	0.0	2477.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4954.0	0.0	4954.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	0.8
10°-20°	109.1	2.2
20°-30°	185.4	3.7
30°-40°	282.8	5.7
40°-50°	465.7	9.4
50°-60°	813.2	16.4
60°-70°	1363.3	27.5
70°-80°	1459.0	29.5
80°-90°	238.0	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°	4954.0	100.0
0°-180°	4954.0	100.0



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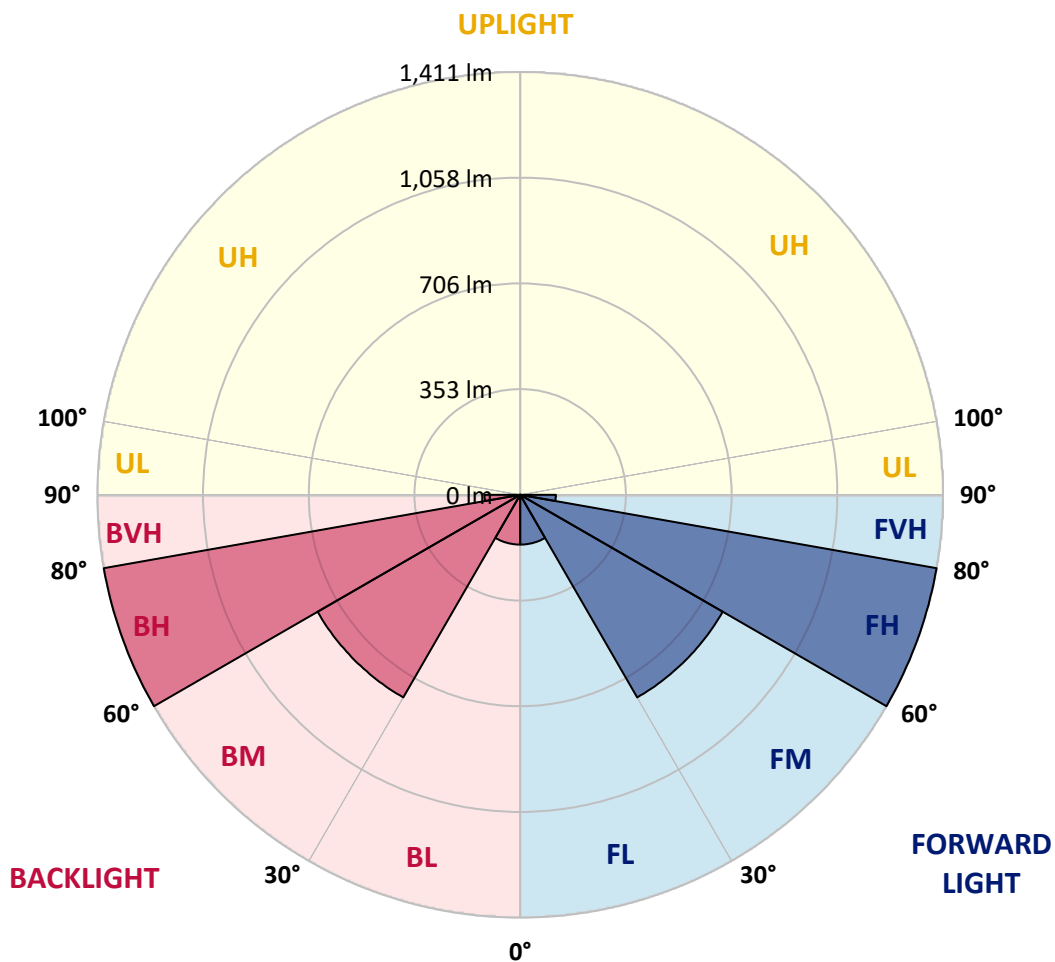
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.1	3.4			
FM (30°-60°)	780.8	15.8			
FH (60°-80°)	1411.2	28.5			G1/1800
FVH (80°-90°)	119.0	2.4			G2/225
BL (0°-30°)	166.1	3.4	B1/500		
BM (30°-60°)	780.8	15.8	B1/1000		
BH (60°-80°)	1411.2	28.5	B3/2500		G1/1800
BVH (80°-90°)	119.0	2.4			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°	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9
2.5°	407.4	407.4	407.4	406.8	405.5	404.9	403.6	404.3	404.3	404.3	404.3
5°	402.4	402.4	401.7	401.1	399.8	399.2	397.9	399.2	399.2	399.2	399.2
7.5°	392.9	393.5	393.5	392.9	391.0	390.3	388.4	389.1	389.1	389.7	389.1
10°	387.8	387.8	387.2	384.0	380.8	379.6	378.9	380.8	382.7	384.6	384.6
12.5°	387.8	387.8	386.5	381.5	377.1	377.1	377.1	379.6	383.4	387.2	387.8
15°	389.7	389.7	387.2	381.5	378.9	379.6	379.6	382.1	386.5	391.6	392.2
17.5°	391.0	391.0	387.8	382.1	382.1	384.0	382.7	384.6	389.1	394.8	395.4
20°	392.9	392.9	388.4	384.0	384.0	385.9	385.9	387.8	391.6	397.3	397.9
22.5°	396.7	396.0	391.6	387.8	387.8	389.1	390.3	392.9	396.0	401.1	402.4
25°	401.1	401.1	397.3	396.7	397.9	401.1	400.5	399.8	401.1	405.5	407.4
27.5°	403.6	403.6	401.1	403.0	408.1	410.6	407.4	404.9	404.9	409.3	409.9
30°	411.8	411.2	408.7	409.9	414.4	415.6	413.7	410.6	412.5	417.5	418.2
32.5°	425.8	425.8	422.0	422.0	425.1	430.2	423.9	422.0	424.5	430.2	430.8
35°	447.3	447.3	442.2	439.7	442.2	449.2	439.7	439.1	443.5	449.8	450.4
37.5°	474.5	474.5	471.3	465.0	465.6	470.0	461.8	461.2	469.4	476.4	476.4
40°	508.6	510.5	507.4	499.8	497.3	497.9	491.6	492.2	501.7	509.9	509.9
42.5°	551.0	552.3	547.2	541.5	538.4	536.5	530.2	531.4	542.8	553.6	553.6
45°	602.3	602.9	597.8	590.9	587.1	585.8	579.5	582.7	595.3	606.7	606.1
47.5°	659.8	660.5	655.4	648.5	645.9	647.8	641.5	641.5	652.9	662.4	661.1
50°	725.0	726.3	720.6	717.4	715.5	720.6	713.0	706.0	713.6	723.1	721.8
52.5°	797.1	800.3	796.5	797.8	804.7	811.0	798.4	783.2	787.0	793.3	791.4
55°	884.4	888.2	889.5	893.9	912.3	923.0	902.1	876.8	874.9	875.6	872.4
57.5°	982.5	985.0	993.2	1003.4	1041.3	1058.4	1025.5	981.9	967.9	959.7	957.8
60°	1081.2	1085.6	1105.9	1126.7	1184.9	1215.9	1165.3	1091.9	1062.2	1047.0	1043.9
62.5°	1180.5	1189.4	1222.3	1257.7	1342.5	1388.6	1310.8	1204.5	1161.5	1142.5	1137.5
65°	1295.6	1306.4	1346.3	1391.2	1485.4	1550.6	1456.3	1320.9	1274.8	1249.5	1243.1
67.5°	1430.4	1441.8	1474.0	1524.0	1613.2	1677.1	1593.6	1439.9	1379.8	1347.5	1342.5
70°	1541.1	1551.2	1586.0	1636.6	1703.1	1775.8	1696.1	1534.8	1480.4	1457.6	1454.4
72.5°	1524.0	1537.3	1588.6	1664.5	1759.4	1841.6	1741.0	1553.1	1474.7	1443.0	1432.9
75°	1331.1	1345.6	1406.4	1543.6	1717.0	1839.7	1675.9	1431.0	1338.7	1312.1	1307.0
77.5°	881.3	895.2	997.7	1214.0	1499.4	1676.5	1479.1	1198.8	1050.2	986.3	982.5
80°	356.2	373.9	471.9	701.6	1062.8	1303.2	1097.0	767.4	517.5	417.5	397.3
82.5°	82.9	98.7	143.6	258.7	544.1	811.7	591.5	286.6	166.4	118.3	106.3
85°	34.8	35.4	61.4	84.1	170.2	327.7	193.6	104.4	84.8	62.0	60.7
87.5°	13.3	13.9	29.7	35.4	54.4	62.0	65.8	53.8	50.0	31.0	29.7
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)