

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: P397796

Luminaire Tested: **ARCH-S-PA1-40-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397796
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-PA1-40-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 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: 4583 lumens
Efficiency: N/A
Efficacy: 114.6 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

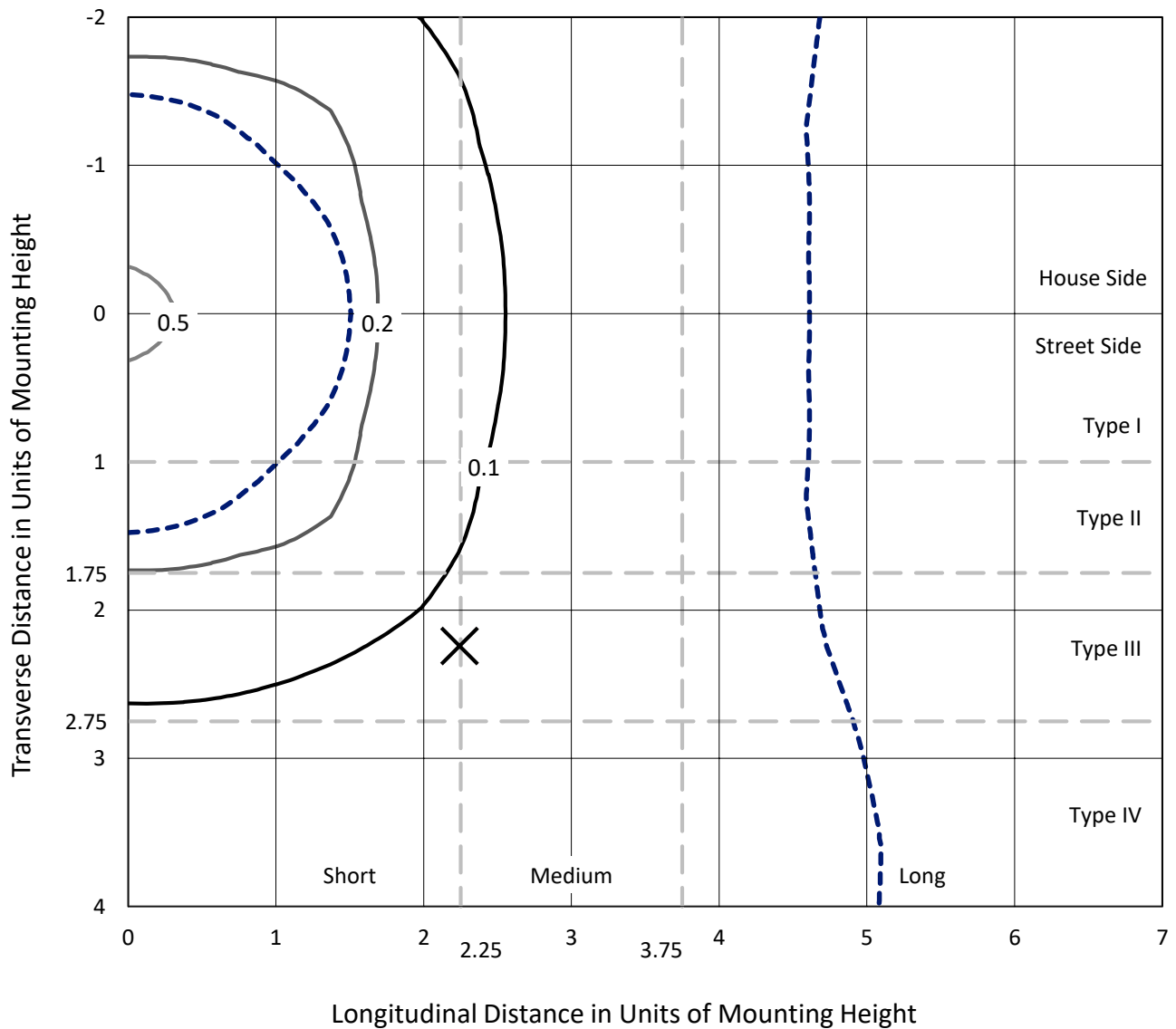


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

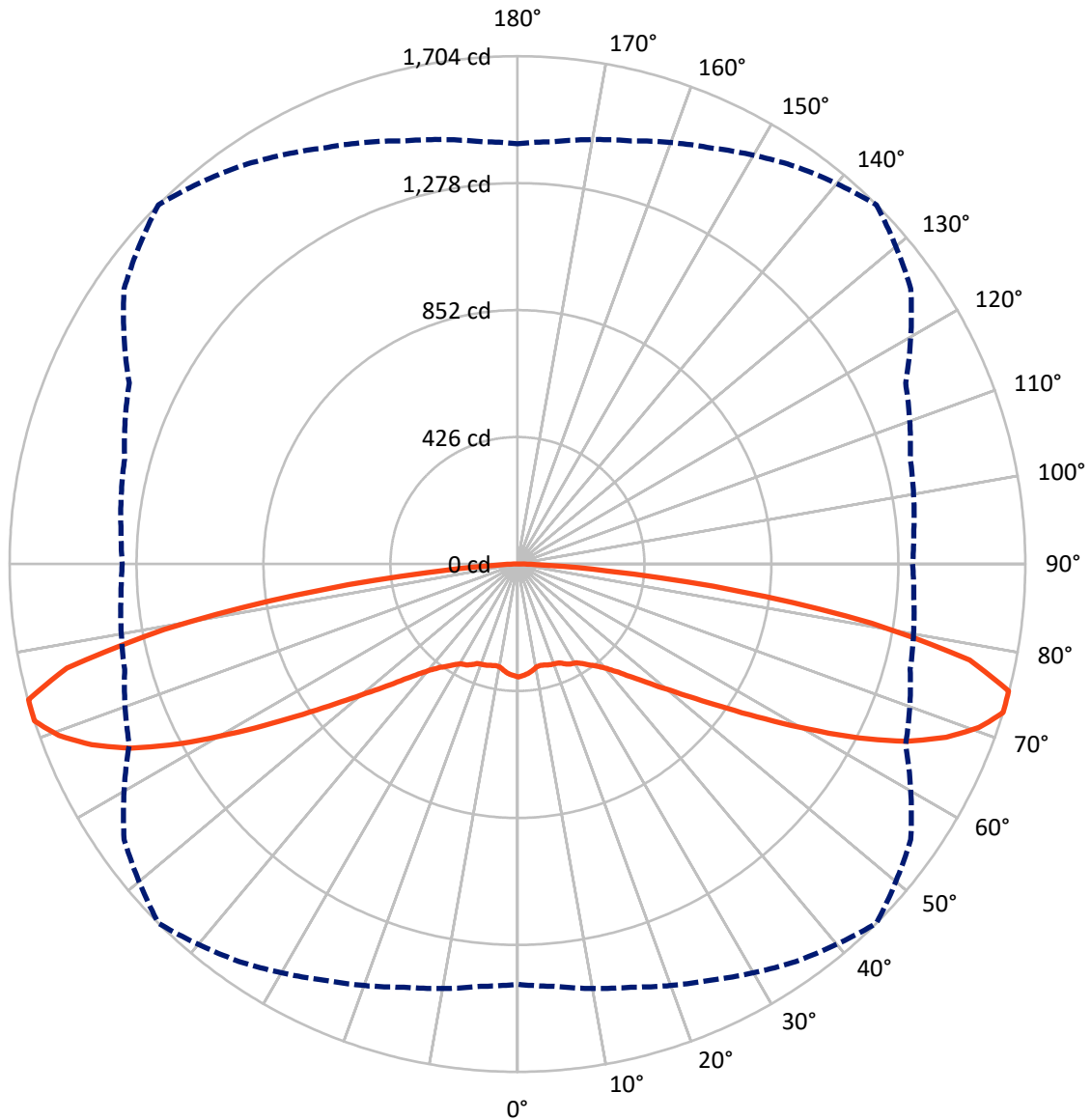


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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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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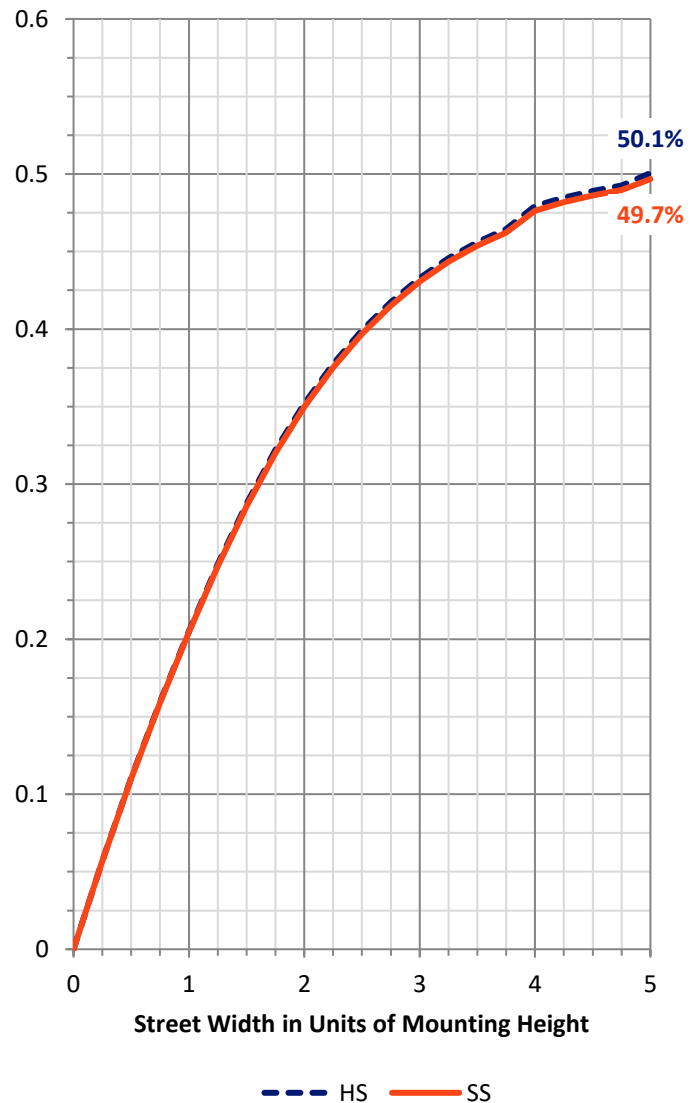
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2291.5	0.0	2291.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2291.5	0.0	2291.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4583.0	0.0	4583.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	0.8
10°-20°	100.9	2.2
20°-30°	171.5	3.7
30°-40°	261.6	5.7
40°-50°	430.8	9.4
50°-60°	752.3	16.4
60°-70°	1261.2	27.5
70°-80°	1349.7	29.5
80°-90°	220.1	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°	4583.0	100.0
0°-180°	4583.0	100.0



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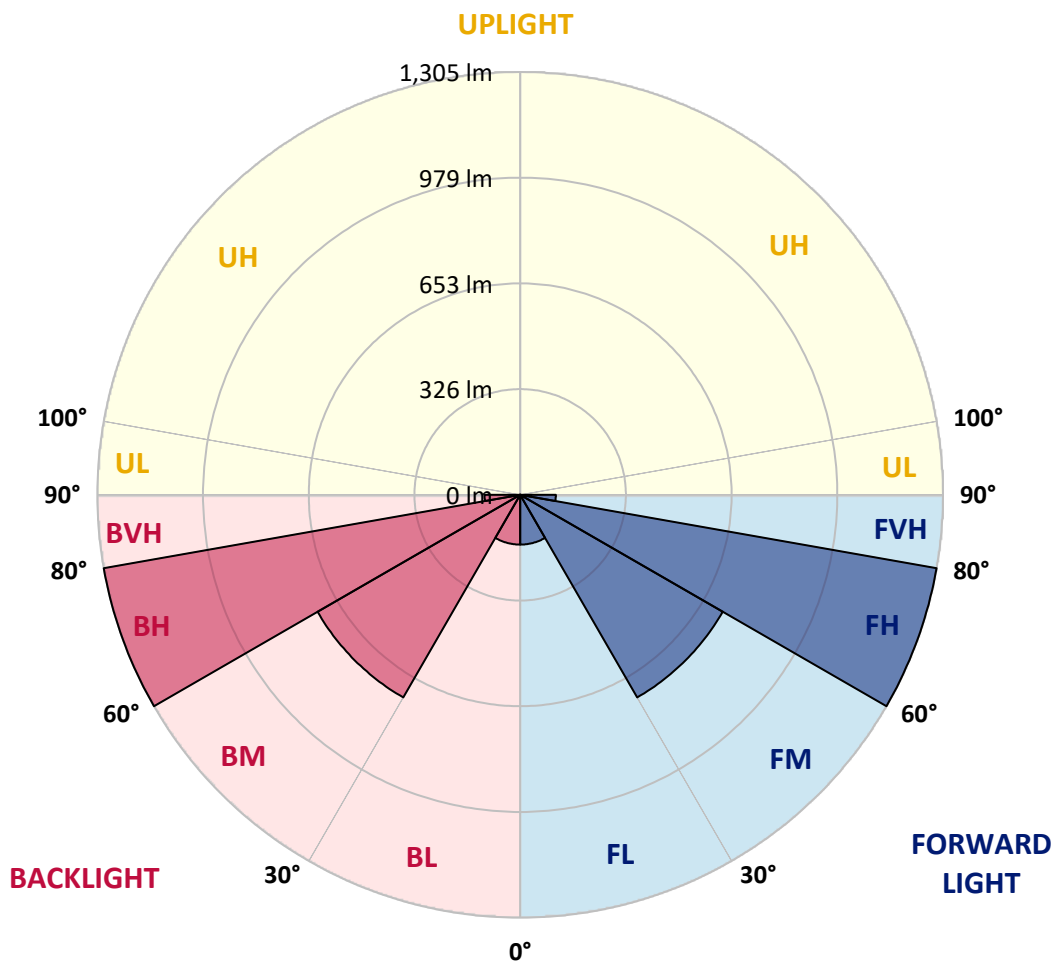
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.6	3.4			
FM (30°-60°)	722.3	15.8			
FH (60°-80°)	1305.5	28.5			G1/1800
FVH (80°-90°)	110.1	2.4			G2/225
BL (0°-30°)	153.6	3.4	B1/500		
BM (30°-60°)	722.3	15.8	B1/1000		
BH (60°-80°)	1305.5	28.5	B3/2500		G1/1800
BVH (80°-90°)	110.1	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°	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2	379.2
2.5°	376.9	376.9	376.9	376.3	375.2	374.6	373.4	374.0	374.0	374.0	374.0
5°	372.2	372.2	371.6	371.1	369.9	369.3	368.1	369.3	369.3	369.3	369.3
7.5°	363.4	364.0	364.0	363.4	361.7	361.1	359.3	359.9	359.9	360.5	359.9
10°	358.8	358.8	358.2	355.3	352.3	351.2	350.6	352.3	354.1	355.8	355.8
12.5°	358.8	358.8	357.6	352.9	348.8	348.8	348.8	351.2	354.7	358.2	358.8
15°	360.5	360.5	358.2	352.9	350.6	351.2	351.2	353.5	357.6	362.3	362.9
17.5°	361.7	361.7	358.8	353.5	353.5	355.3	354.1	355.8	359.9	365.2	365.8
20°	363.4	363.4	359.3	355.3	355.3	357.0	357.0	358.8	362.3	367.5	368.1
22.5°	367.0	366.4	362.3	358.8	358.8	359.9	361.1	363.4	366.4	371.1	372.2
25°	371.1	371.1	367.5	367.0	368.1	371.1	370.5	369.9	371.1	375.2	376.9
27.5°	373.4	373.4	371.1	372.8	377.5	379.8	376.9	374.6	374.6	378.7	379.2
30°	381.0	380.4	378.1	379.2	383.3	384.5	382.8	379.8	381.6	386.3	386.9
32.5°	393.9	393.9	390.4	390.4	393.3	398.0	392.1	390.4	392.7	398.0	398.6
35°	413.8	413.8	409.1	406.8	409.1	415.5	406.8	406.2	410.3	416.1	416.7
37.5°	438.9	438.9	436.0	430.2	430.8	434.8	427.2	426.7	434.3	440.7	440.7
40°	470.5	472.3	469.4	462.4	460.0	460.6	454.7	455.3	464.1	471.7	471.7
42.5°	509.8	510.9	506.2	501.0	498.1	496.3	490.4	491.6	502.2	512.1	512.1
45°	557.2	557.8	553.1	546.6	543.1	542.0	536.1	539.0	550.7	561.3	560.7
47.5°	610.4	611.0	606.3	599.9	597.6	599.3	593.5	593.5	604.0	612.8	611.6
50°	670.7	671.9	666.6	663.7	661.9	666.6	659.6	653.1	660.2	669.0	667.8
52.5°	737.4	740.4	736.8	738.0	744.5	750.3	738.6	724.6	728.1	733.9	732.2
55°	818.2	821.7	822.9	827.0	843.9	853.9	834.6	811.2	809.4	810.0	807.1
57.5°	908.9	911.2	918.9	928.2	963.3	979.1	948.7	908.3	895.4	887.8	886.1
60°	1000.2	1004.3	1023.0	1042.3	1096.2	1124.9	1078.0	1010.2	982.7	968.6	965.7
62.5°	1092.1	1100.3	1130.7	1163.5	1241.9	1284.6	1212.7	1114.3	1074.5	1057.0	1052.3
65°	1198.6	1208.6	1245.4	1287.0	1374.2	1434.5	1347.3	1222.0	1179.3	1155.9	1150.0
67.5°	1323.3	1333.8	1363.7	1409.9	1492.4	1551.5	1474.3	1332.1	1276.5	1246.6	1241.9
70°	1425.7	1435.1	1467.2	1514.1	1575.5	1642.8	1569.1	1419.8	1369.5	1348.4	1345.5
72.5°	1409.9	1422.2	1469.6	1539.8	1627.6	1703.7	1610.6	1436.8	1364.2	1335.0	1325.6
75°	1231.4	1244.8	1301.0	1428.0	1588.4	1701.9	1550.4	1323.9	1238.4	1213.8	1209.1
77.5°	815.3	828.1	923.0	1123.1	1387.1	1550.9	1368.3	1109.1	971.5	912.4	908.9
80°	329.5	345.9	436.6	649.1	983.2	1205.6	1014.8	709.9	478.7	386.3	367.5
82.5°	76.7	91.3	132.9	239.4	503.3	750.9	547.2	265.1	153.9	109.4	98.3
85°	32.2	32.8	56.8	77.8	157.4	303.2	179.1	96.6	78.4	57.4	56.2
87.5°	12.3	12.9	27.5	32.8	50.3	57.4	60.9	49.7	46.2	28.7	27.5
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)