

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: P573588

Luminaire Tested: **ARCH-S-PA2-90-827-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9737 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

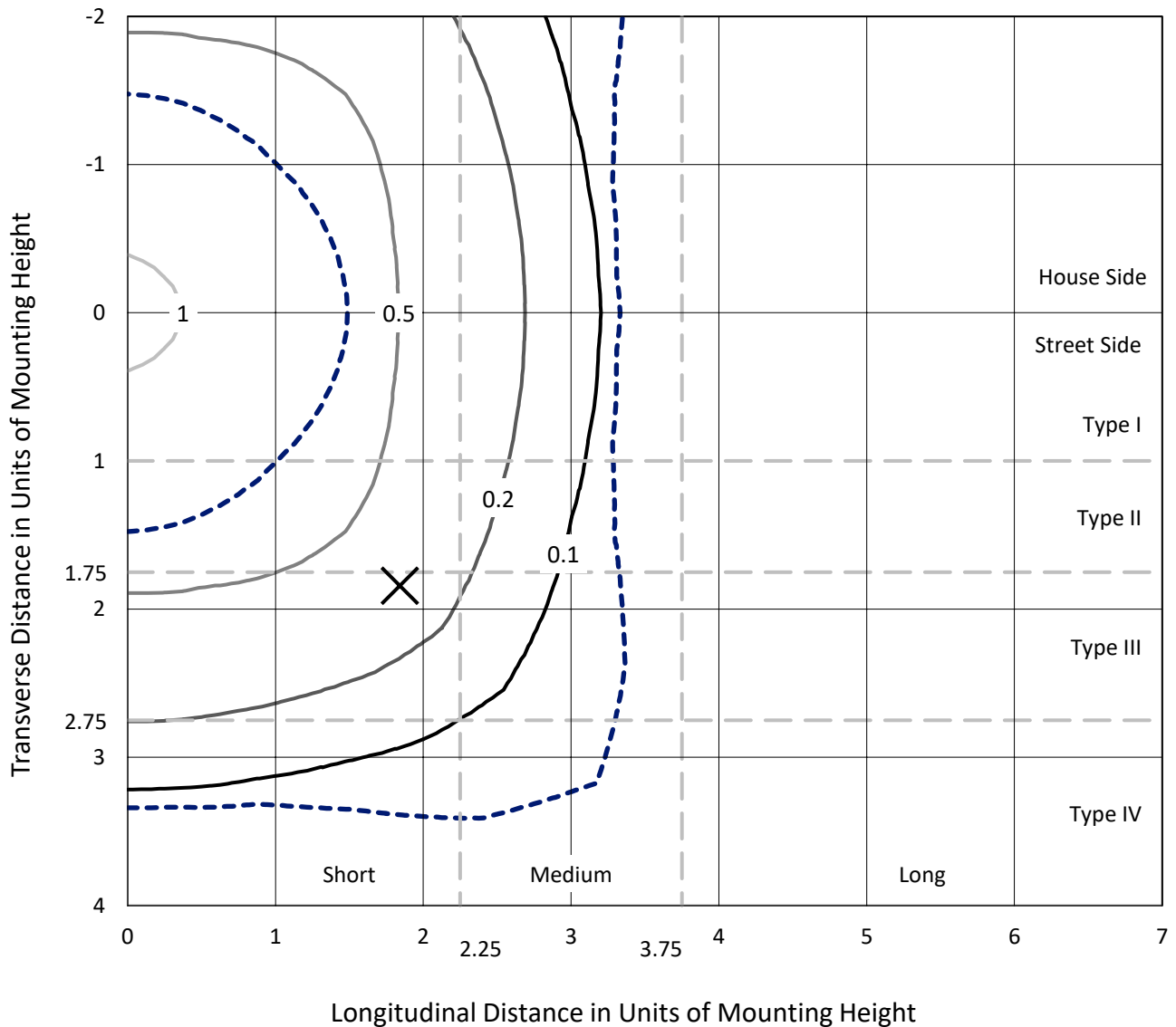
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

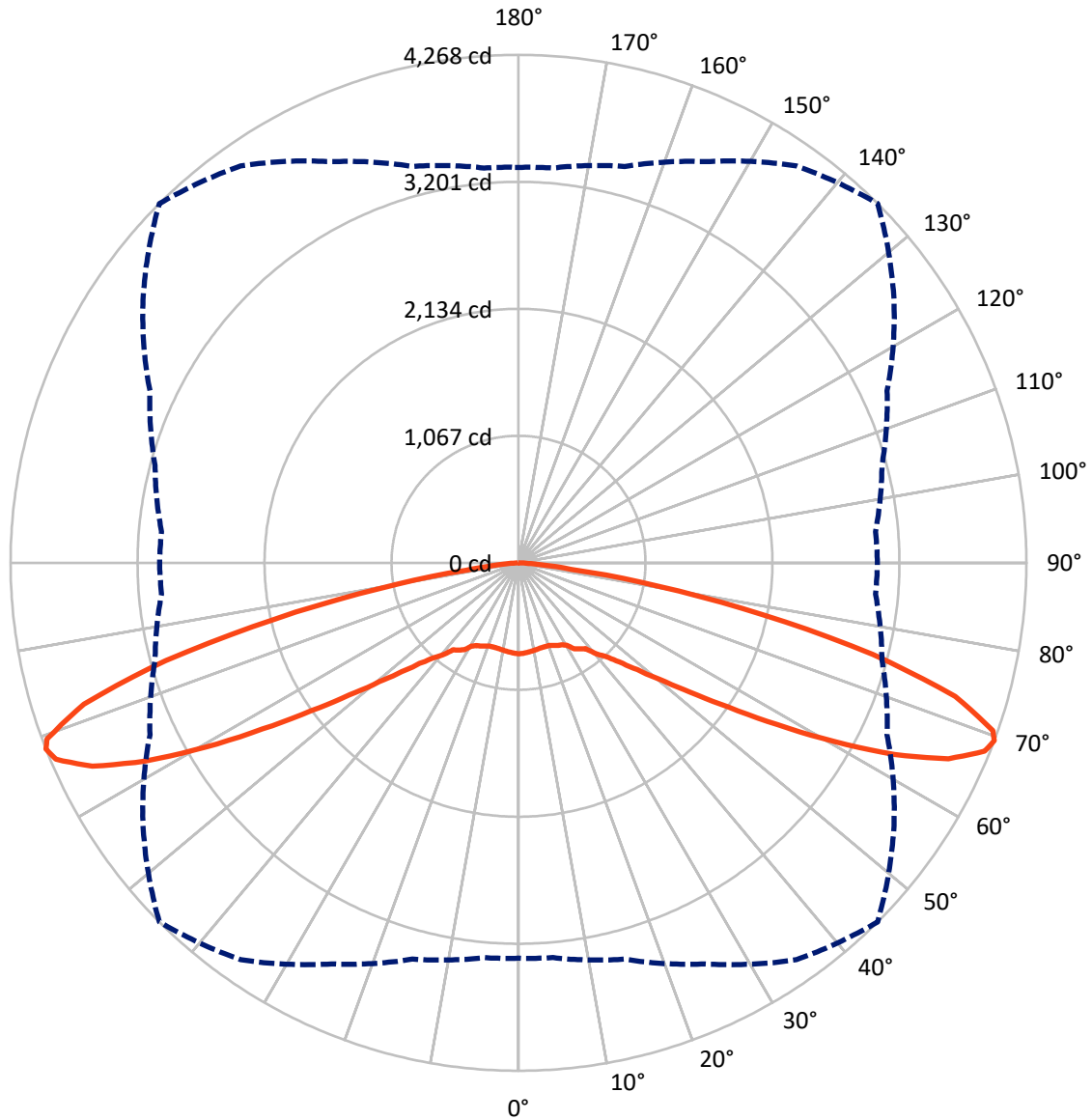
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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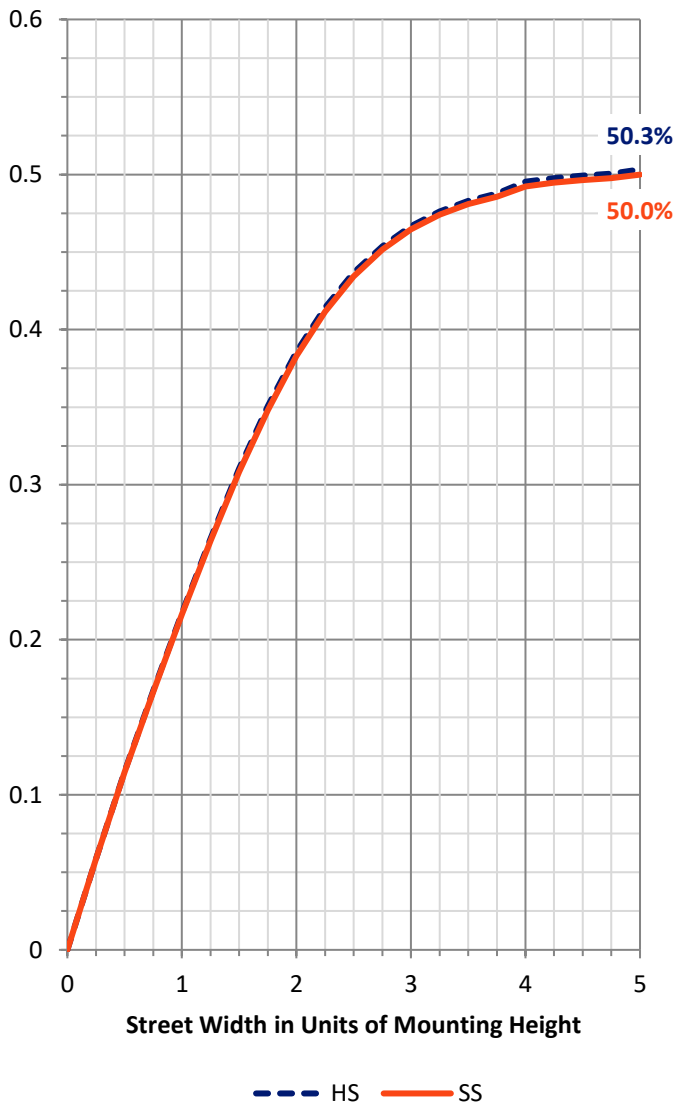
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4868.5	0.0	4868.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4868.5	0.0	4868.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9737.0	0.0	9737.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	0.7
10°-20°	211.6	2.2
20°-30°	358.9	3.7
30°-40°	558.0	5.7
40°-50°	957.9	9.8
50°-60°	1905.8	19.6
60°-70°	3395.0	34.9
70°-80°	2138.1	22.0
80°-90°	139.6	1.4
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°	9737.0	100.0
0°-180°	9737.0	100.0

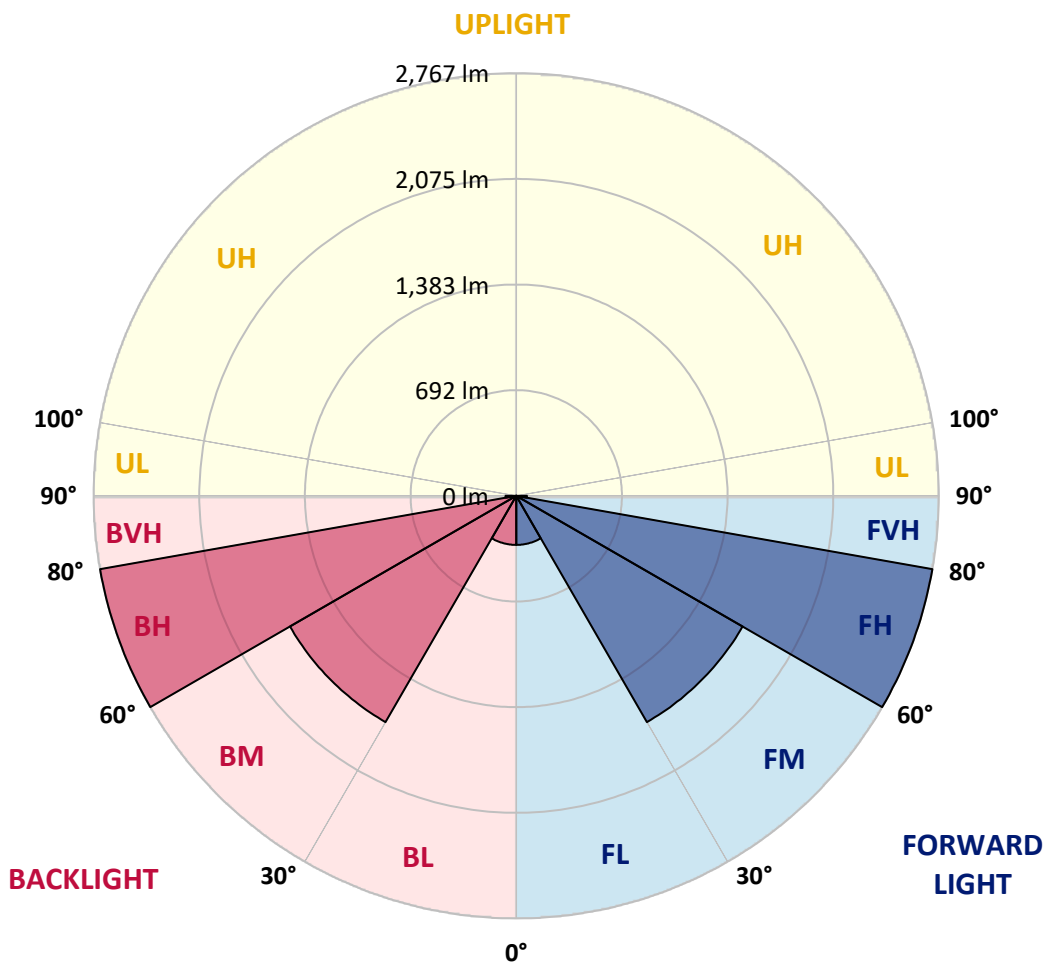


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.3	3.3			
FM	(30°-60°)	1710.9	17.6			
FH	(60°-80°)	2766.5	28.4			G2/5000
FVH	(80°-90°)	69.8	0.7			G1/100
BL	(0°-30°)	321.3	3.3	B1/500		
BM	(30°-60°)	1710.9	17.6	B2/2500		
BH	(60°-80°)	2766.5	28.4	B4/5000		G2/5000
BVH	(80°-90°)	69.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1
2.5°	769.2	766.6	766.6	764.1	761.5	761.5	761.5	759.0	761.5	761.5	761.5
5°	766.6	764.1	761.5	759.0	759.0	756.4	759.0	756.4	756.4	756.4	756.4
7.5°	759.0	759.0	753.9	753.9	751.3	748.7	748.7	748.7	746.2	746.2	746.2
10°	759.0	756.4	753.9	748.7	746.2	746.2	746.2	743.6	746.2	746.2	746.2
12.5°	759.0	759.0	751.3	746.2	741.1	741.1	741.1	741.1	746.2	748.7	748.7
15°	764.1	761.5	753.9	743.6	738.5	738.5	738.5	741.1	746.2	751.3	751.3
17.5°	766.6	761.5	751.3	741.1	738.5	738.5	738.5	741.1	748.7	753.9	756.4
20°	769.2	766.6	753.9	743.6	741.1	741.1	741.1	741.1	748.7	756.4	759.0
22.5°	776.9	774.3	761.5	753.9	751.3	751.3	751.3	751.3	759.0	769.2	769.2
25°	787.1	782.0	769.2	764.1	764.1	769.2	769.2	764.1	771.7	779.4	782.0
27.5°	805.0	799.9	787.1	782.0	779.4	779.4	779.4	779.4	784.5	797.3	797.3
30°	820.3	817.7	812.6	812.6	810.1	805.0	805.0	810.1	812.6	817.7	820.3
32.5°	840.7	835.6	830.5	830.5	845.9	861.2	848.4	828.0	825.4	828.0	830.5
35°	884.2	879.1	866.3	858.6	874.0	889.3	868.9	856.1	863.7	871.4	871.4
37.5°	945.5	943.0	932.7	917.4	912.3	914.8	907.2	917.4	937.8	953.2	955.7
40°	1009.4	1006.8	996.6	989.0	991.5	1004.3	999.2	989.0	1001.7	1012.0	1012.0
42.5°	1109.1	1098.8	1083.5	1063.1	1065.6	1075.8	1063.1	1073.3	1091.2	1109.1	1111.6
45°	1241.9	1231.7	1211.3	1193.4	1180.6	1185.7	1185.7	1203.6	1224.1	1244.5	1252.2
47.5°	1385.1	1382.5	1362.1	1346.7	1333.9	1341.6	1341.6	1341.6	1374.8	1395.3	1395.3
50°	1561.4	1553.7	1553.7	1540.9	1535.8	1538.4	1528.2	1538.4	1553.7	1558.8	1551.2
52.5°	1770.9	1763.3	1768.4	1773.5	1786.3	1804.1	1778.6	1776.0	1768.4	1760.7	1758.1
55°	2021.4	2029.0	2049.5	2082.7	2103.1	2138.9	2100.6	2054.6	2034.1	2013.7	1998.4
57.5°	2320.3	2333.1	2363.8	2443.0	2529.9	2563.1	2496.7	2412.3	2340.8	2282.0	2294.8
60°	2711.3	2703.7	2754.8	2862.1	2984.8	3051.2	2946.4	2808.4	2693.4	2665.3	2673.0
62.5°	3127.9	3143.2	3179.0	3322.1	3475.4	3547.0	3419.2	3214.7	3066.5	2989.9	2989.9
65°	3388.5	3398.7	3498.4	3700.3	3871.5	3968.6	3787.2	3490.7	3278.6	3150.9	3143.2
67.5°	3426.8	3437.1	3549.5	3807.6	4088.7	4224.1	3909.8	3524.0	3276.1	3120.2	3115.1
69°	3322.1	3329.7	3447.3	3718.2	4070.8	4267.6	3851.1	3416.6	3161.1	3010.3	3015.4
70°	3171.3	3202.0	3291.4	3567.4	3976.3	4229.3	3743.7	3296.5	3030.8	2910.6	2890.2
72.5°	2486.4	2506.9	2655.1	2997.5	3549.5	3838.3	3288.9	2790.5	2519.7	2394.5	2425.1
75°	1408.0	1402.9	1592.0	2082.7	2736.9	3074.2	2588.7	2008.6	1615.0	1464.3	1484.7
77.5°	536.6	559.6	687.4	1068.2	1719.8	2100.6	1717.3	1073.3	751.3	585.2	557.1
80°	173.8	184.0	242.8	388.4	733.4	1185.7	802.4	414.0	260.7	196.8	184.0
82.5°	69.0	76.7	92.0	130.3	247.9	447.2	270.9	150.8	112.4	92.0	84.3
85°	38.3	35.8	48.6	58.8	84.3	127.8	92.0	71.6	61.3	43.4	40.9
87.5°	12.8	12.8	20.4	20.4	23.0	20.4	23.0	25.6	25.6	15.3	12.8
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)