

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: P572751

Luminaire Tested: **ARCH-S-PA2-110-740-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572751
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-PA2-110-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15514 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

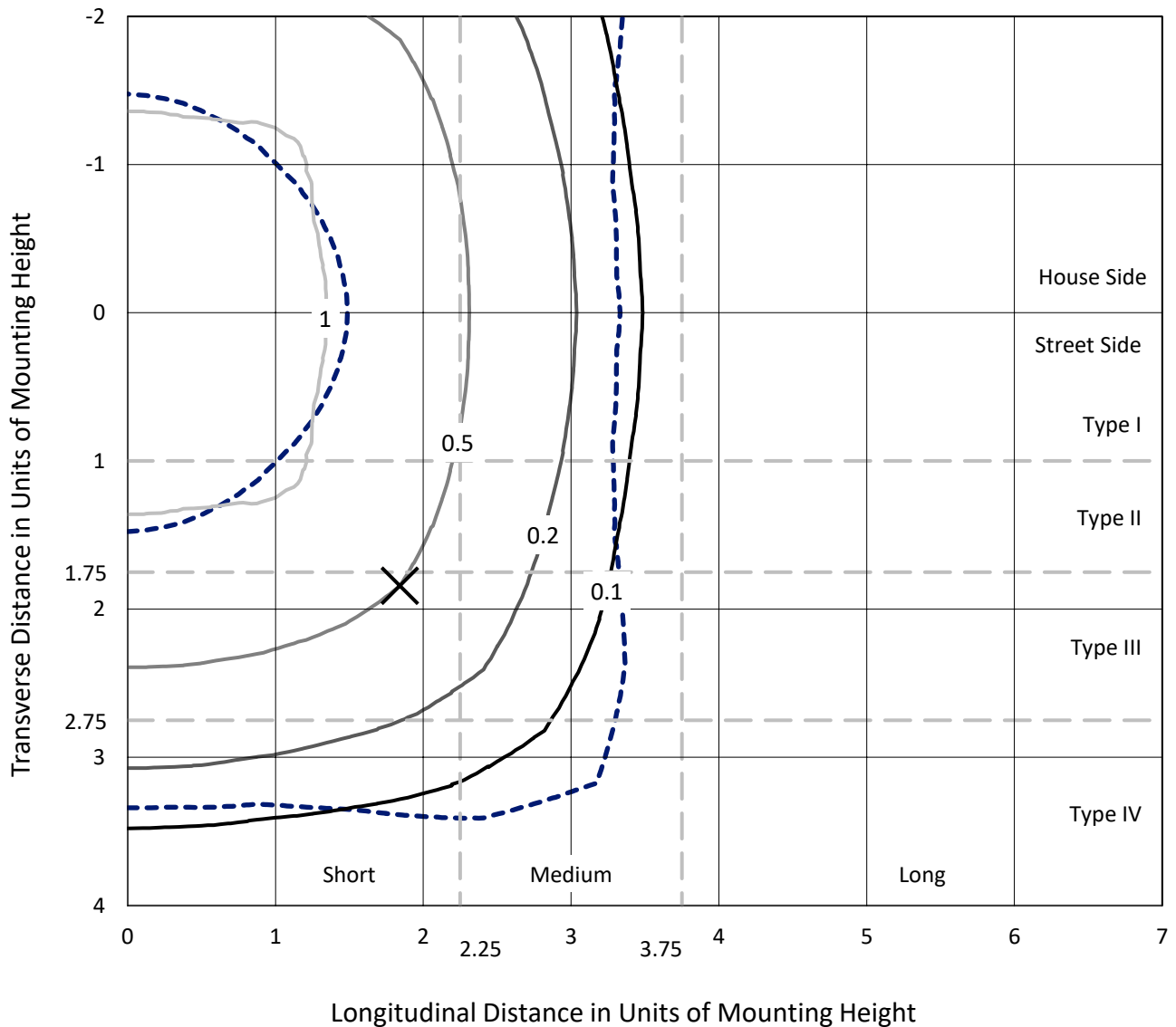
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

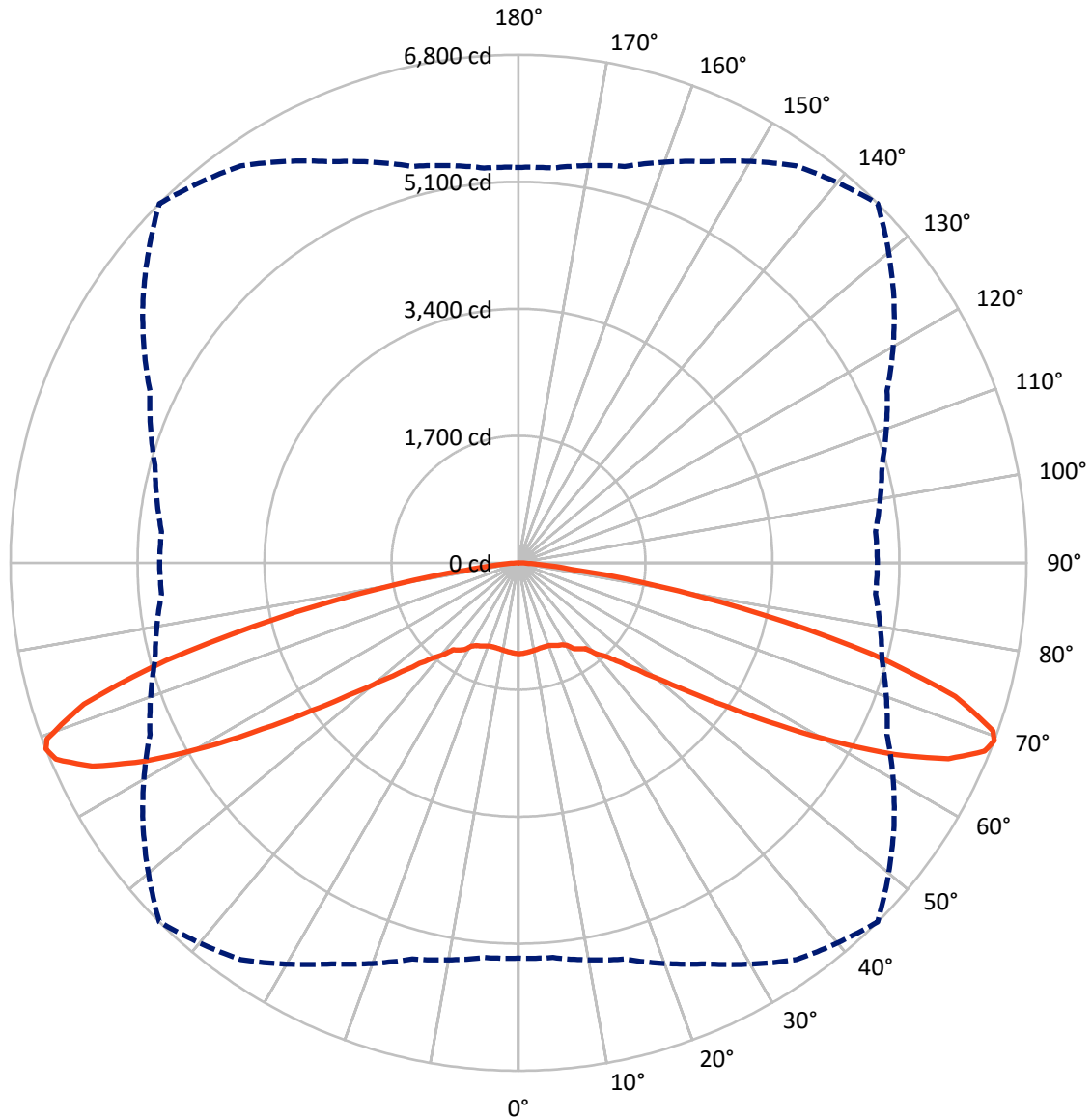
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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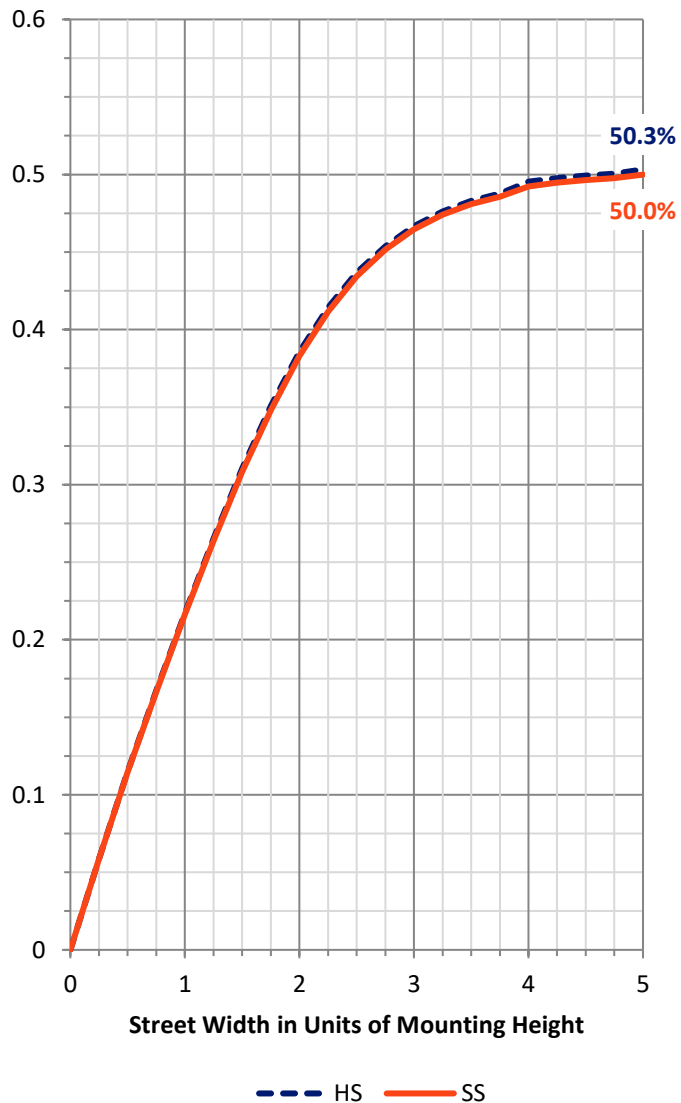
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7757.0	0.0	7757.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7757.0	0.0	7757.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15514.0	0.0	15514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	0.7
10°-20°	337.2	2.2
20°-30°	571.8	3.7
30°-40°	889.1	5.7
40°-50°	1526.2	9.8
50°-60°	3036.6	19.6
60°-70°	5409.2	34.9
70°-80°	3406.7	22.0
80°-90°	222.5	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°	15514.0	100.0
0°-180°	15514.0	100.0

Coefficient of Utilization



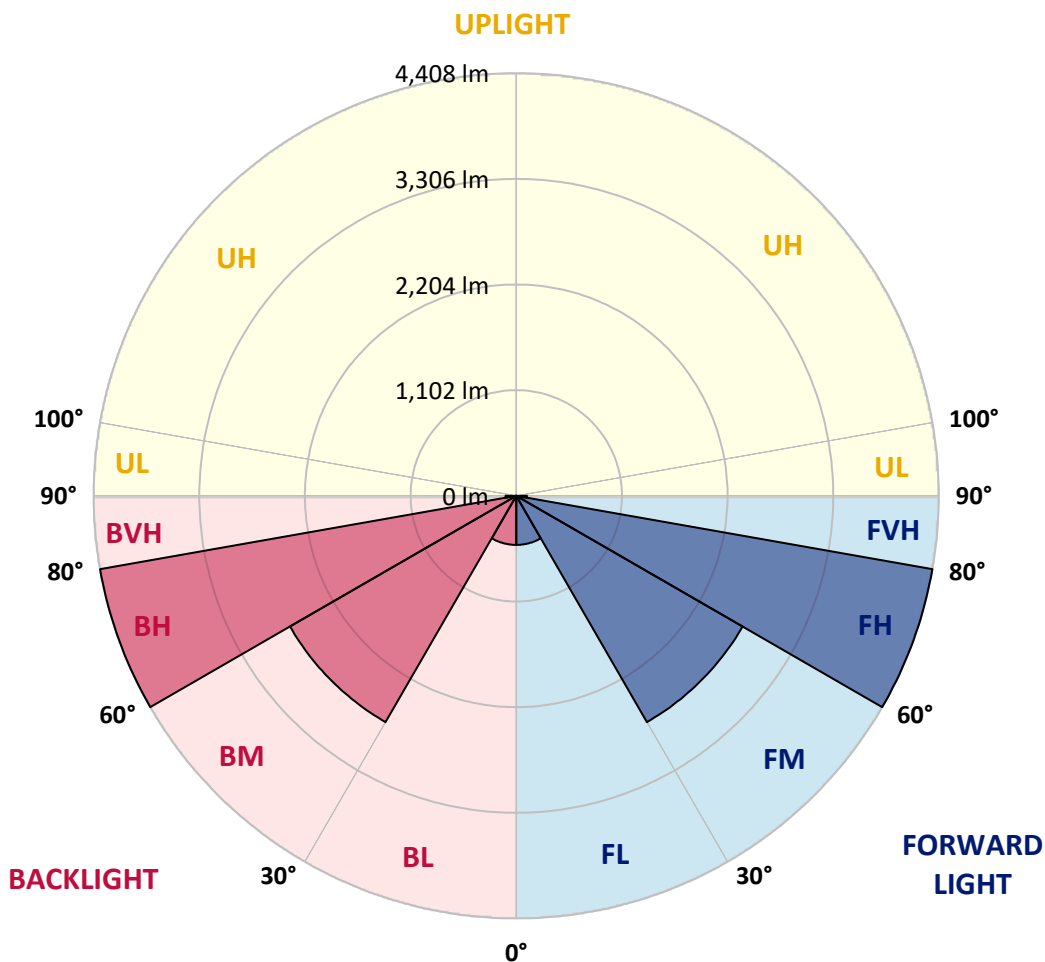
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.9	3.3			
FM (30°-60°)	2725.9	17.6			
FH (60°-80°)	4407.9	28.4			G2/5000
FVH (80°-90°)	111.2	0.7			G2/225
BL (0°-30°)	511.9	3.3	B2/1000		
BM (30°-60°)	2725.9	17.6	B3/5000		
BH (60°-80°)	4407.9	28.4	B4/5000		G2/5000
BVH (80°-90°)	111.2	0.7			G2/225
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°	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4	1217.4
2.5°	1225.6	1221.5	1221.5	1217.4	1213.3	1213.3	1213.3	1209.3	1213.3	1213.3	1213.3
5°	1221.5	1217.4	1213.3	1209.3	1209.3	1209.3	1209.3	1205.2	1205.2	1205.2	1205.2
7.5°	1209.3	1209.3	1201.1	1201.1	1197.0	1197.0	1193.0	1193.0	1193.0	1188.9	1188.9
10°	1209.3	1205.2	1201.1	1193.0	1188.9	1188.9	1188.9	1184.8	1188.9	1188.9	1188.9
12.5°	1209.3	1209.3	1197.0	1188.9	1180.8	1180.8	1180.8	1180.8	1188.9	1193.0	1193.0
15°	1217.4	1213.3	1201.1	1184.8	1176.7	1176.7	1176.7	1180.8	1188.9	1197.0	1197.0
17.5°	1221.5	1213.3	1197.0	1180.8	1176.7	1176.7	1176.7	1180.8	1193.0	1201.1	1205.2
20°	1225.6	1221.5	1201.1	1184.8	1180.8	1180.8	1180.8	1180.8	1193.0	1205.2	1209.3
22.5°	1237.8	1233.7	1213.3	1201.1	1197.0	1201.1	1197.0	1197.0	1209.3	1225.6	1225.6
25°	1254.1	1245.9	1225.6	1217.4	1217.4	1225.6	1225.6	1217.4	1229.6	1241.8	1245.9
27.5°	1282.6	1274.4	1254.1	1245.9	1241.8	1241.8	1241.8	1241.8	1250.0	1270.3	1270.3
30°	1307.0	1302.9	1294.8	1294.8	1290.7	1282.6	1282.6	1290.7	1294.8	1302.9	1307.0
32.5°	1339.6	1331.4	1323.3	1323.3	1347.7	1372.1	1351.8	1319.2	1315.1	1319.2	1323.3
35°	1408.8	1400.6	1380.3	1368.1	1392.5	1416.9	1384.3	1364.0	1376.2	1388.4	1388.4
37.5°	1506.5	1502.4	1486.1	1461.7	1453.6	1457.6	1445.4	1461.7	1494.3	1518.7	1522.8
40°	1608.3	1604.2	1587.9	1575.7	1579.8	1600.1	1592.0	1575.7	1596.1	1612.4	1612.4
42.5°	1767.1	1750.8	1726.4	1693.8	1697.9	1714.1	1693.8	1710.1	1738.6	1767.1	1771.1
45°	1978.8	1962.5	1929.9	1901.4	1881.1	1889.2	1889.2	1917.7	1950.3	1982.9	1995.1
47.5°	2206.8	2202.7	2170.2	2145.7	2125.4	2137.6	2137.6	2137.6	2190.5	2223.1	2223.1
50°	2487.7	2475.5	2475.5	2455.2	2447.0	2451.1	2434.8	2451.1	2475.5	2483.7	2471.5
52.5°	2821.6	2809.4	2817.5	2825.7	2846.0	2874.5	2833.8	2829.8	2817.5	2805.3	2801.3
55°	3220.6	3232.8	3265.4	3318.4	3350.9	3407.9	3346.9	3273.6	3241.0	3208.4	3184.0
57.5°	3697.0	3717.4	3766.2	3892.4	4030.9	4083.8	3978.0	3843.6	3729.6	3635.9	3656.3
60°	4320.0	4307.8	4389.2	4560.2	4755.6	4861.5	4694.6	4474.7	4291.5	4246.7	4258.9
62.5°	4983.6	5008.1	5065.1	5293.1	5537.4	5651.4	5447.8	5122.1	4885.9	4763.8	4763.8
65°	5398.9	5415.2	5574.0	5895.7	6168.5	6323.2	6034.1	5561.8	5223.9	5020.3	5008.1
67.5°	5460.0	5476.3	5655.4	6066.7	6514.6	6730.4	6229.5	5614.7	5219.8	4971.4	4963.3
69°	5293.1	5305.3	5492.6	5924.2	6486.1	6799.6	6135.9	5443.7	5036.6	4796.3	4804.5
70°	5052.9	5101.7	5244.2	5683.9	6335.4	6738.5	5964.9	5252.4	4828.9	4637.5	4605.0
72.5°	3961.7	3994.2	4230.4	4776.0	5655.4	6115.5	5240.1	4446.2	4014.6	3815.1	3863.9
75°	2243.5	2235.3	2536.6	3318.4	4360.7	4898.1	4124.5	3200.3	2573.2	2333.0	2365.6
77.5°	855.0	891.7	1095.3	1701.9	2740.2	3346.9	2736.1	1710.1	1197.0	932.4	887.6
80°	276.9	293.2	386.8	618.9	1168.5	1889.2	1278.5	659.6	415.3	313.5	293.2
82.5°	109.9	122.1	146.6	207.7	394.9	712.5	431.6	240.2	179.2	146.6	134.4
85°	61.1	57.0	77.4	93.6	134.4	203.6	146.6	114.0	97.7	69.2	65.1
87.5°	20.4	20.4	32.6	32.6	36.6	32.6	36.6	40.7	40.7	24.4	20.4
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)