

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: P799599

Luminaire Tested: **ARCH2-40-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5647 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

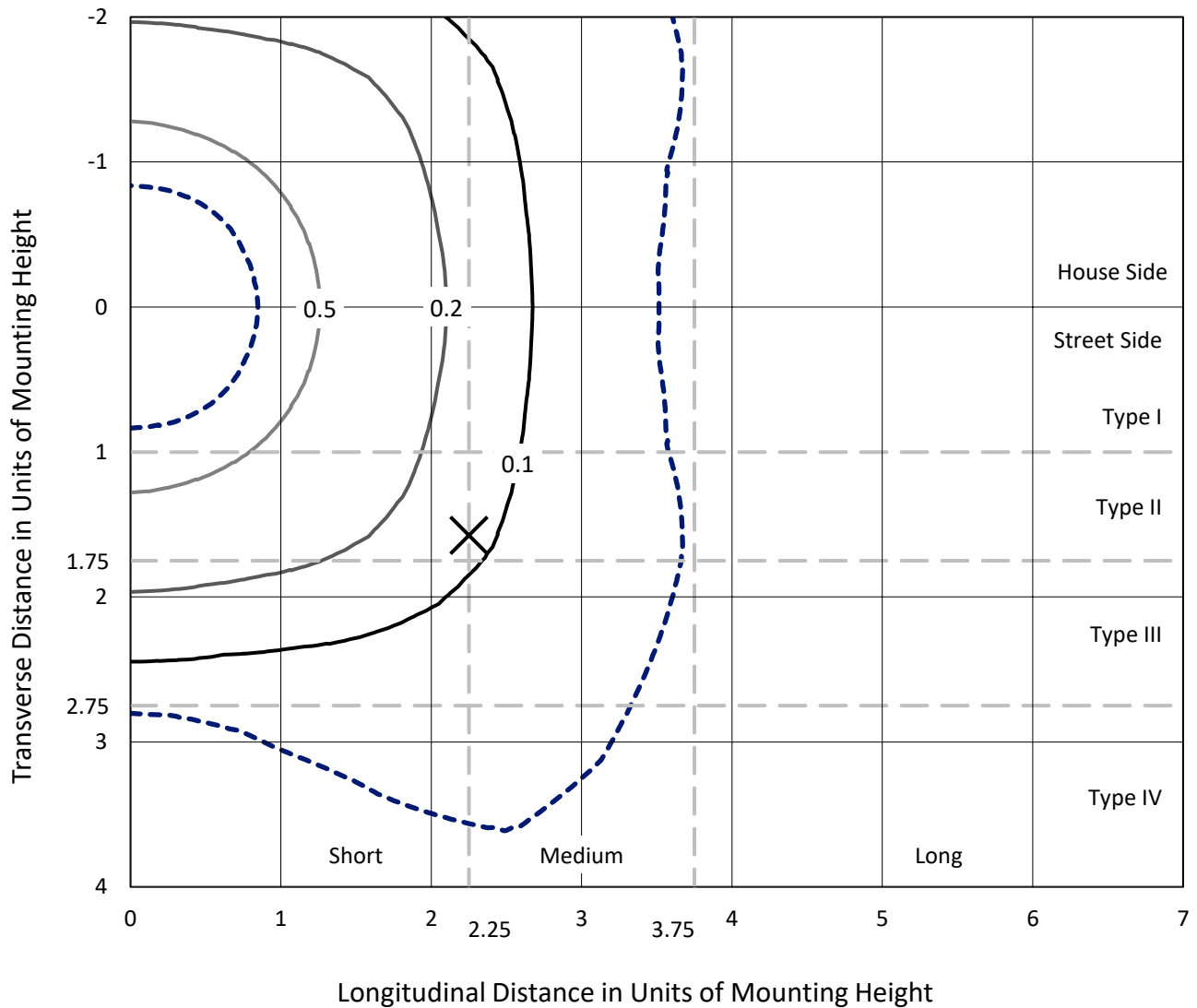
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

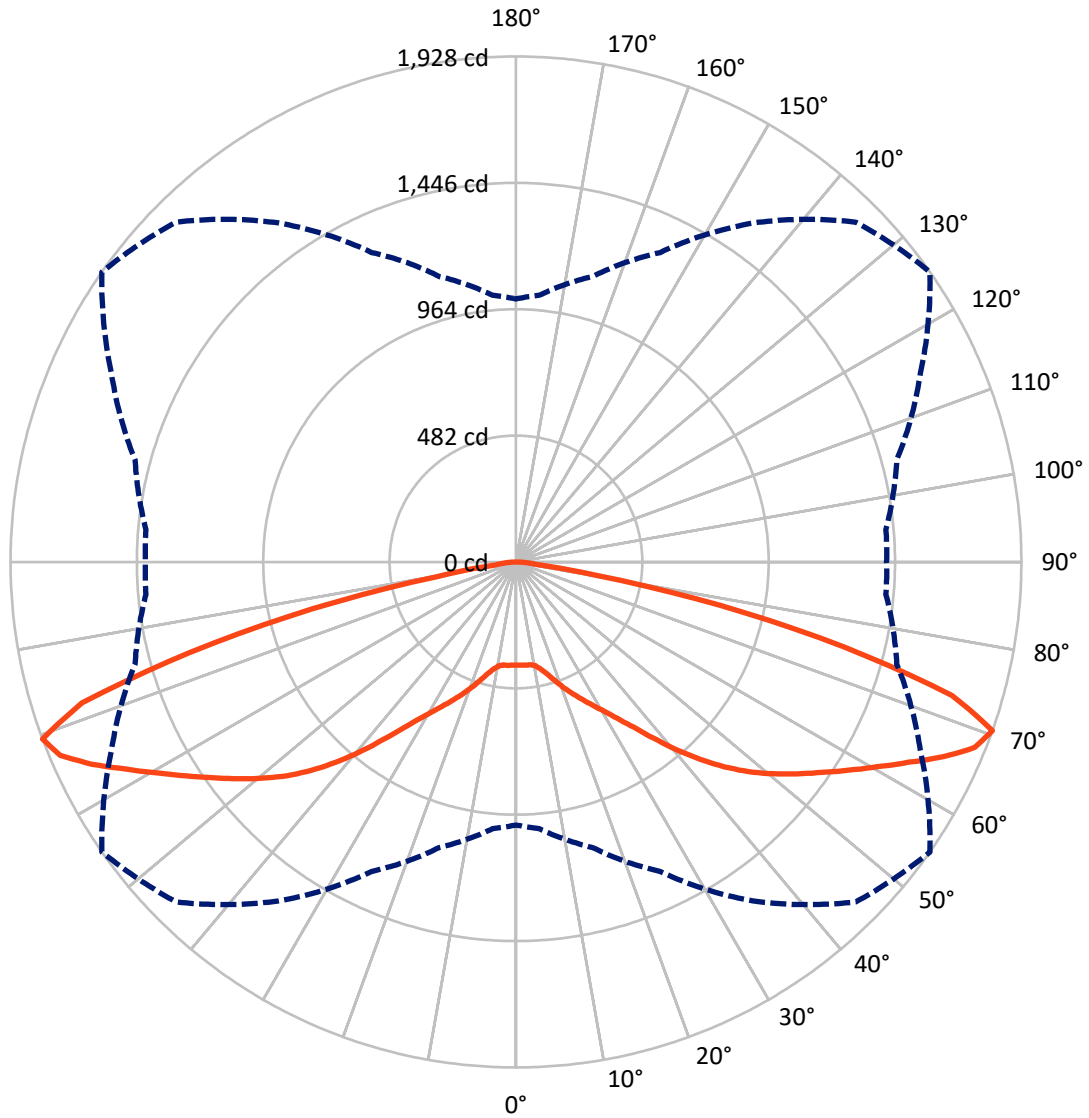
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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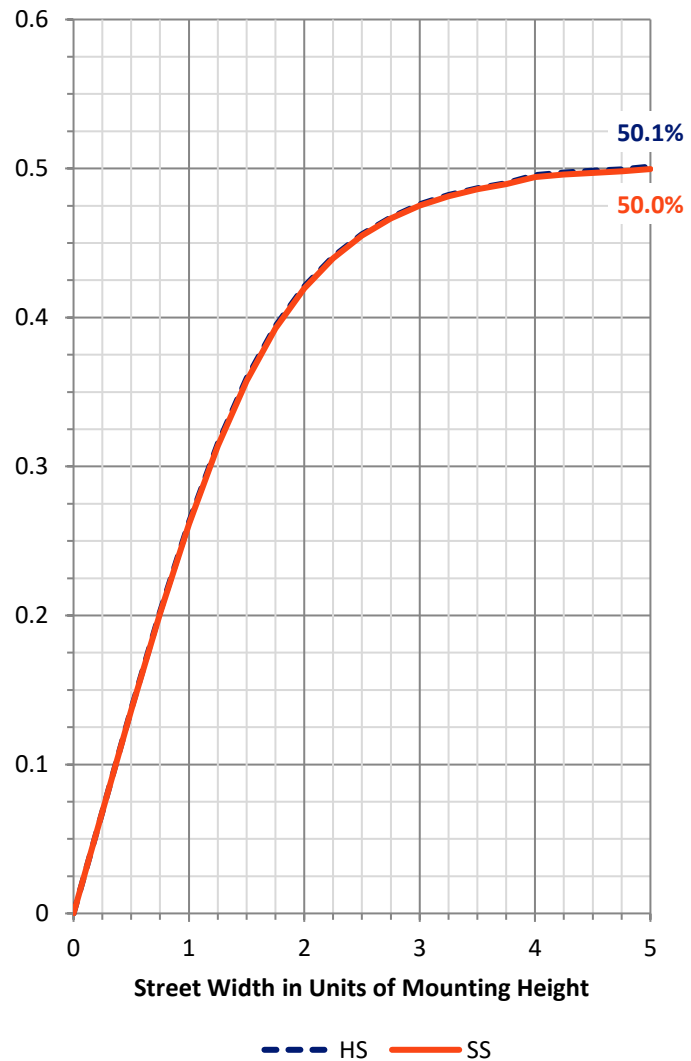
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2823.5	0.0	2823.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2823.5	0.0	2823.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5647.0	0.0	5647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.7
10°-20°	129.3	2.3
20°-30°	268.7	4.8
30°-40°	496.4	8.8
40°-50°	872.0	15.4
50°-60°	1257.6	22.3
60°-70°	1539.2	27.3
70°-80°	979.4	17.3
80°-90°	66.3	1.2
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°	5647.0	100.0
0°-180°	5647.0	100.0

Coefficient of Utilization



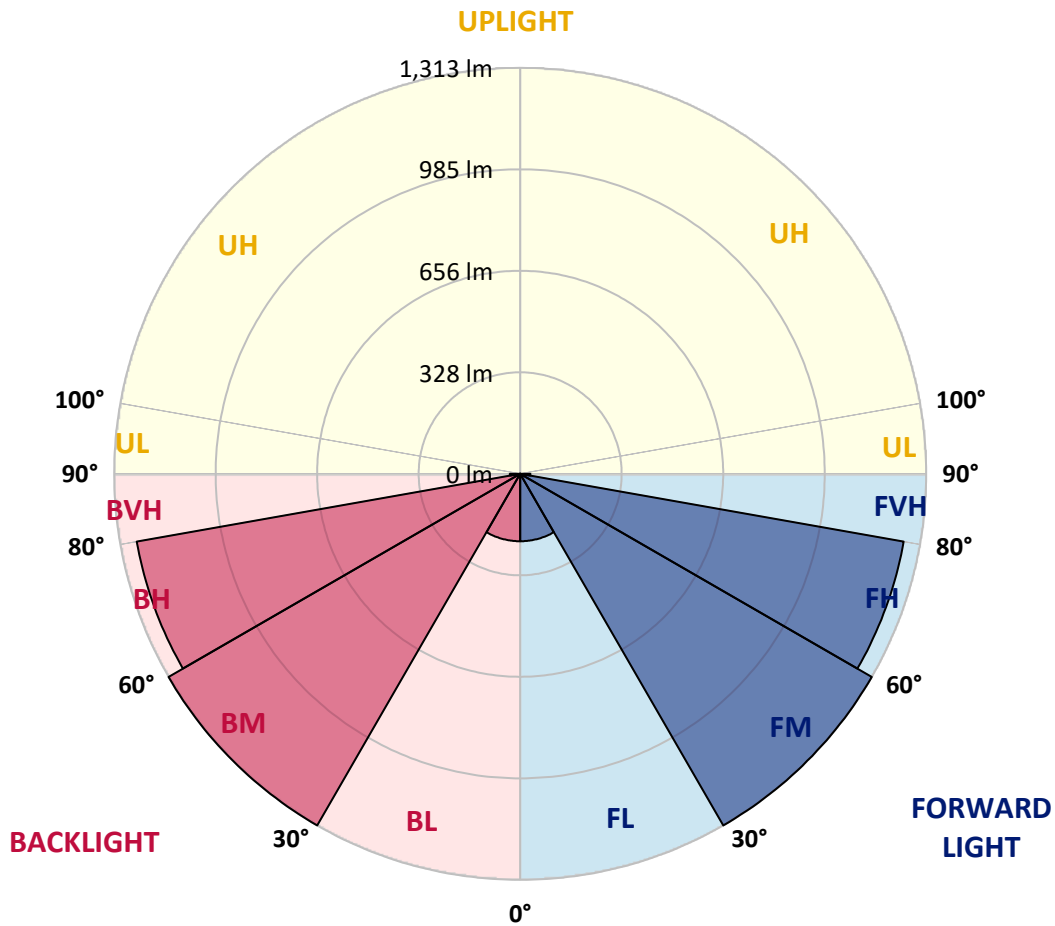
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.0	3.9			
FM (30°-60°)	1313.0	23.3			
FH (60°-80°)	1259.3	22.3			G1/1800
FVH (80°-90°)	33.1	0.6			G1/100
BL (0°-30°)	218.0	3.9	B1/500		
BM (30°-60°)	1313.0	23.3	B2/2500		
BH (60°-80°)	1259.3	22.3	B3/2500		G1/1800
BVH (80°-90°)	33.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6	393.6
2.5°	398.9	398.9	397.8	397.8	395.7	394.7	393.6	393.6	392.6	392.6	391.5
5°	401.0	401.0	401.0	399.9	398.9	397.8	395.7	393.6	392.6	391.5	390.5
7.5°	402.0	402.0	401.0	401.0	399.9	398.9	395.7	392.6	391.5	390.5	390.5
10°	410.4	409.4	408.3	406.2	406.2	406.2	402.0	398.9	397.8	397.8	397.8
12.5°	430.4	429.3	427.2	424.1	424.1	425.1	418.8	414.6	414.6	413.6	413.6
15°	459.8	458.7	456.6	451.4	450.3	452.4	443.0	438.8	438.8	438.8	437.7
17.5°	492.3	490.2	487.1	482.9	482.9	482.9	473.4	468.2	465.0	465.0	464.0
20°	519.6	518.6	518.6	517.5	520.7	520.7	508.1	499.7	492.3	488.1	487.1
22.5°	543.8	542.7	544.8	549.0	555.3	557.4	542.7	530.1	518.6	510.2	508.1
25°	576.3	575.3	574.2	580.5	591.0	594.1	578.4	562.7	551.1	546.9	544.8
27.5°	610.9	612.0	613.0	619.3	627.7	633.0	617.2	602.5	593.1	586.8	584.7
30°	649.8	651.9	655.0	664.5	670.8	672.9	659.2	648.7	640.3	635.1	631.9
32.5°	699.1	703.3	707.5	715.9	719.1	717.0	710.7	703.3	697.0	689.7	688.6
35°	772.6	776.8	775.8	778.9	780.0	777.9	774.7	770.5	767.4	757.9	756.9
37.5°	865.0	869.2	862.9	859.7	852.4	853.4	852.4	855.5	856.6	847.1	846.1
40°	958.4	962.6	954.2	945.8	938.5	935.3	940.6	951.1	951.1	944.8	944.8
42.5°	1058.1	1061.3	1047.6	1037.1	1027.7	1025.6	1028.7	1041.3	1044.5	1043.4	1043.4
45°	1157.9	1155.8	1137.9	1127.4	1119.0	1113.8	1114.8	1124.3	1130.6	1133.7	1133.7
47.5°	1234.5	1231.3	1216.6	1208.2	1203.0	1195.6	1195.6	1200.9	1204.0	1205.1	1205.1
50°	1295.4	1292.2	1277.5	1276.5	1276.5	1273.3	1270.2	1269.1	1267.0	1268.1	1268.1
52.5°	1347.9	1343.7	1333.2	1335.3	1344.7	1346.8	1342.6	1334.2	1325.8	1322.7	1323.7
55°	1404.5	1398.2	1389.8	1396.1	1415.0	1423.4	1417.1	1400.3	1385.6	1376.2	1376.2
57.5°	1449.7	1442.3	1442.3	1460.2	1494.8	1511.6	1498.0	1466.5	1441.3	1430.8	1431.8
60°	1418.2	1411.9	1437.1	1515.8	1580.9	1609.2	1586.1	1530.5	1489.6	1477.0	1479.1
62.5°	1356.3	1352.1	1383.5	1505.3	1658.6	1717.4	1682.7	1602.9	1542.1	1527.4	1527.4
65°	1264.9	1263.9	1308.0	1458.1	1676.4	1821.3	1791.9	1681.7	1602.9	1583.0	1587.2
67.5°	1170.5	1170.5	1210.3	1377.2	1655.4	1865.4	1888.5	1753.1	1632.3	1583.0	1584.0
70°	1003.5	1021.4	1127.4	1302.7	1578.8	1833.9	1928.4	1702.7	1504.3	1417.1	1414.0
72.5°	661.3	684.4	895.4	1172.5	1503.2	1719.5	1740.5	1495.9	1249.2	1147.4	1142.1
75°	398.9	418.8	580.5	915.4	1321.6	1384.6	1292.2	1172.5	933.2	853.4	853.4
77.5°	117.6	131.2	267.7	580.5	914.3	910.1	796.7	690.7	552.2	469.2	475.5
80°	69.3	71.4	87.1	264.5	379.0	398.9	307.6	192.1	192.1	142.8	138.6
82.5°	53.5	53.5	55.6	66.1	91.3	101.8	77.7	66.1	75.6	64.0	60.9
85°	37.8	37.8	37.8	38.8	39.9	40.9	43.0	44.1	48.3	39.9	37.8
87.5°	11.5	12.6	13.6	15.7	18.9	19.9	21.0	18.9	18.9	17.8	16.8
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)