

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: P799615

Luminaire Tested: **ARCH2-40-727-U-5WQ**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799615  
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: ARCH2-40-727-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

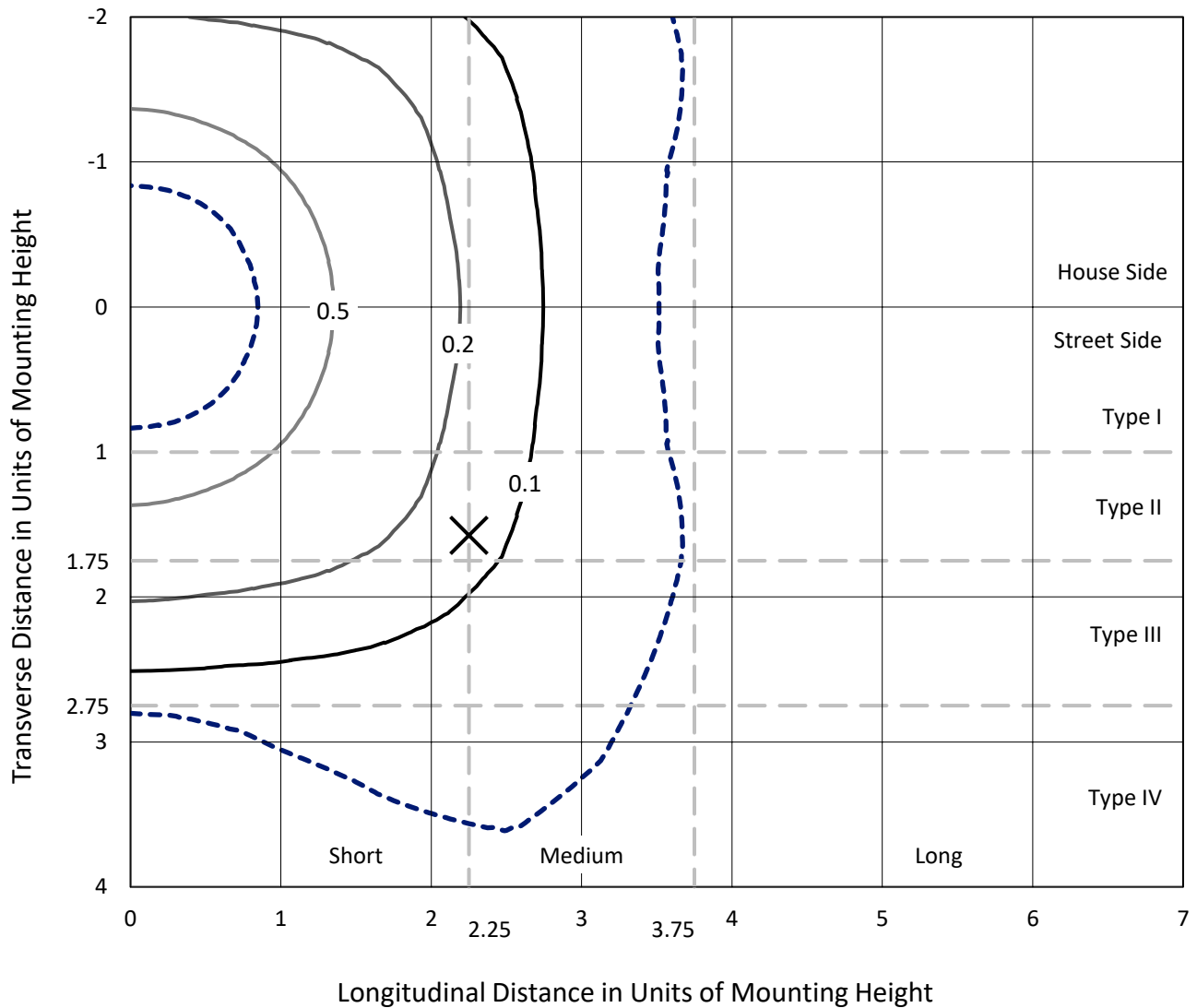
Lumens per Lamp: N/A  
Luminaire Lumens: 6227 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 44.1  
Input Voltage (V): NR  
Input Current (Ain): 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

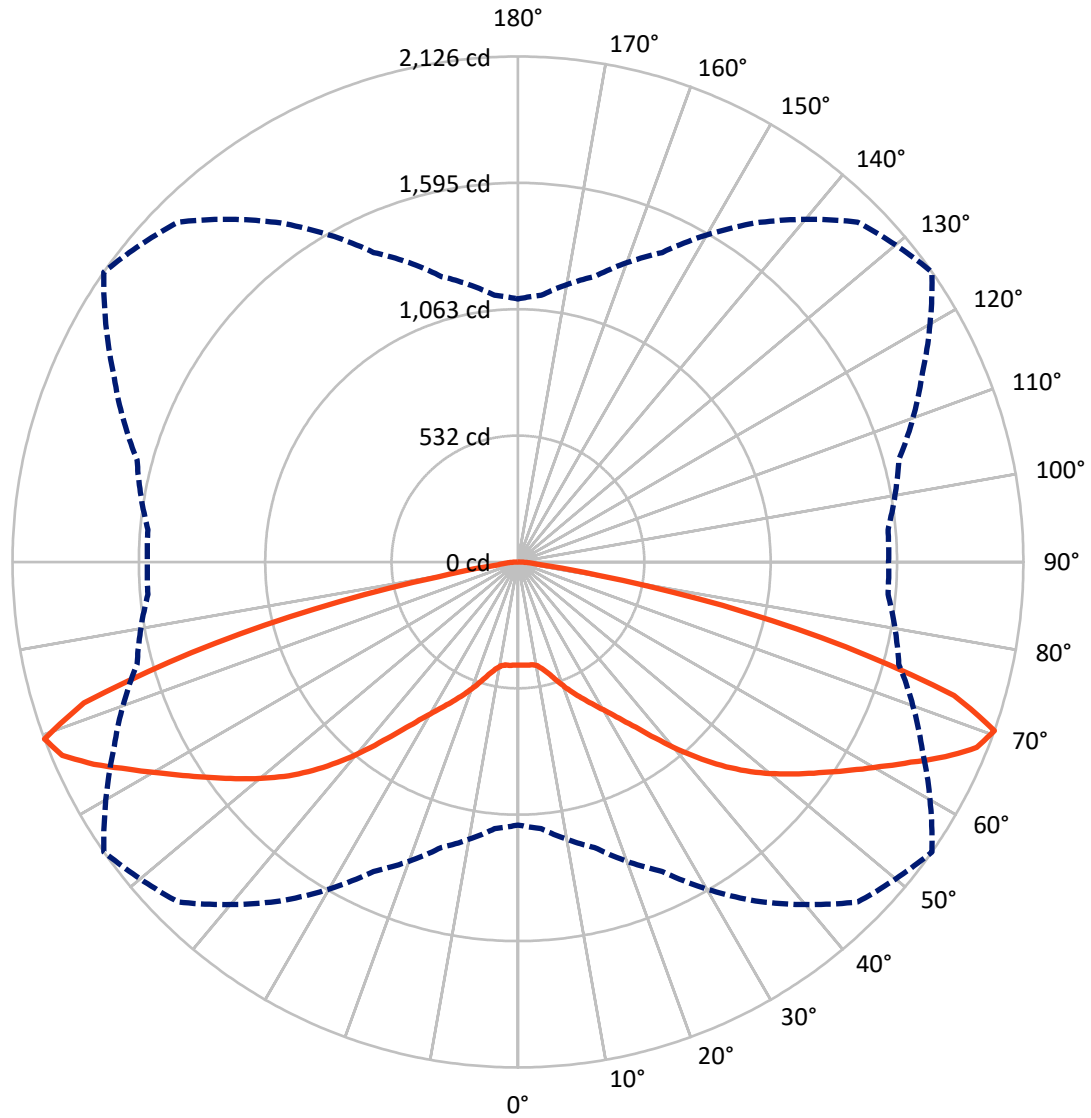
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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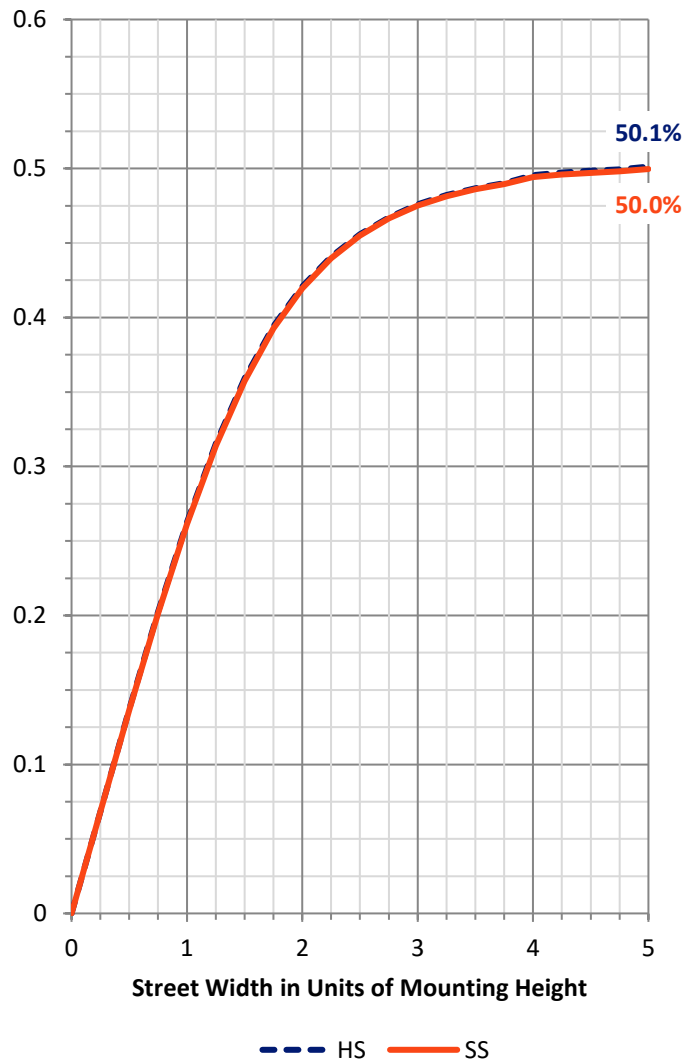
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3113.5	0.0	3113.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3113.5	0.0	3113.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6227.0	0.0	6227.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	0.7
10°-20°	142.6	2.3
20°-30°	296.4	4.8
30°-40°	547.3	8.8
40°-50°	961.6	15.4
50°-60°	1386.8	22.3
60°-70°	1697.3	27.3
70°-80°	1080.0	17.3
80°-90°	73.1	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°	6227.0	100.0
0°-180°	6227.0	100.0

**Coefficient of Utilization**



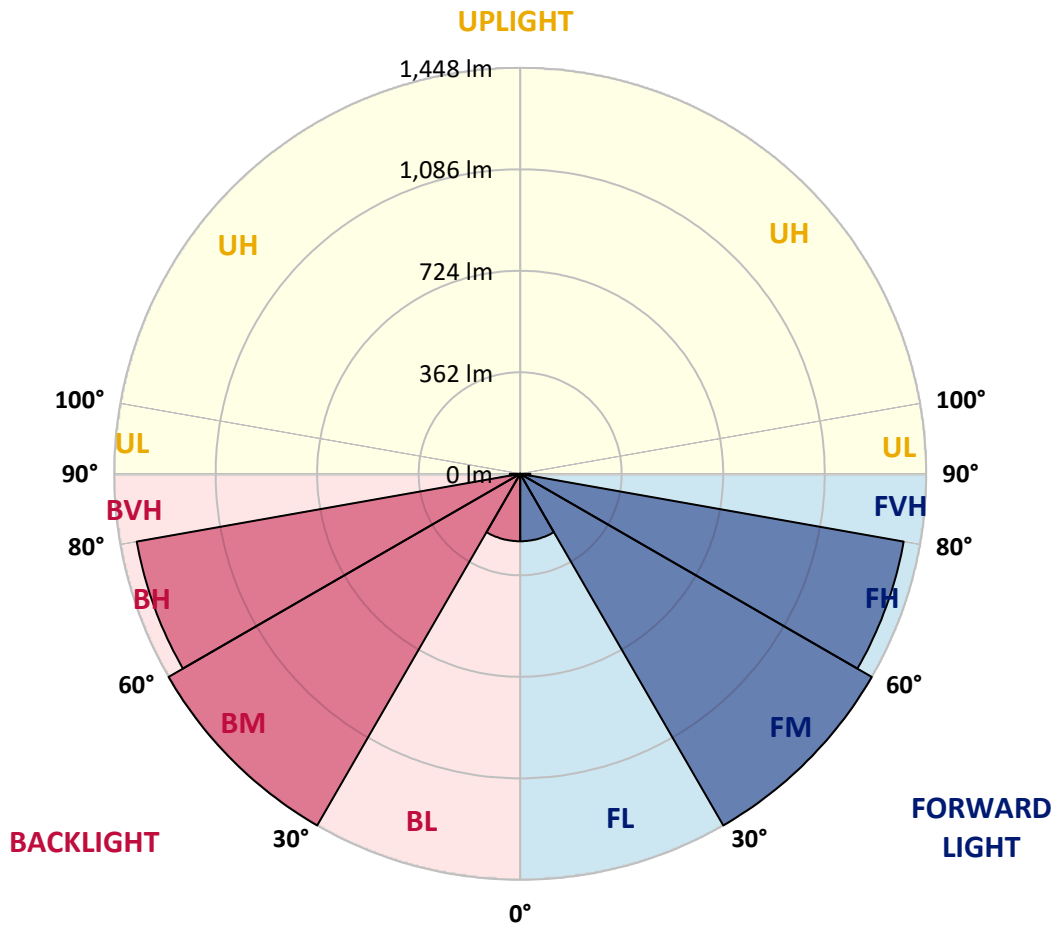
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.4	3.9			
FM (30°-60°)	1447.9	23.3			
FH (60°-80°)	1388.7	22.3			G1/1800
FVH (80°-90°)	36.5	0.6			G1/100
BL (0°-30°)	240.4	3.9	B1/500		
BM (30°-60°)	1447.9	23.3	B2/2500		
BH (60°-80°)	1388.7	22.3	B3/2500		G1/1800
BVH (80°-90°)	36.5	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°	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1
2.5°	439.9	439.9	438.7	438.7	436.4	435.2	434.1	434.1	432.9	432.9	431.8
5°	442.2	442.2	442.2	441.0	439.9	438.7	436.4	434.1	432.9	431.8	430.6
7.5°	443.3	443.3	442.2	442.2	441.0	439.9	436.4	432.9	431.8	430.6	430.6
10°	452.6	451.4	450.3	448.0	448.0	448.0	443.3	439.9	438.7	438.7	438.7
12.5°	474.6	473.4	471.1	467.6	467.6	468.8	461.9	457.2	457.2	456.1	456.1
15°	507.0	505.8	503.5	497.7	496.6	498.9	488.5	483.9	483.9	483.9	482.7
17.5°	542.9	540.6	537.1	532.5	532.5	532.5	522.1	516.3	512.8	512.8	511.6
20°	573.0	571.8	571.8	570.7	574.1	574.1	560.3	551.0	542.9	538.3	537.1
22.5°	599.6	598.5	600.8	605.4	612.3	614.7	598.5	584.6	571.8	562.6	560.3
25°	635.5	634.3	633.2	640.1	651.7	655.2	637.8	620.4	607.7	603.1	600.8
27.5°	673.7	674.9	676.0	683.0	692.2	698.0	680.6	664.4	654.0	647.1	644.8
30°	716.5	718.8	722.3	732.7	739.7	742.0	726.9	715.4	706.1	700.3	696.8
32.5°	770.9	775.6	780.2	789.4	792.9	790.6	783.7	775.6	768.6	760.5	759.4
35°	852.0	856.6	855.4	858.9	860.1	857.7	854.3	849.6	846.2	835.7	834.6
37.5°	953.8	958.5	951.5	948.0	939.9	941.1	939.9	943.4	944.6	934.1	933.0
40°	1056.8	1061.5	1052.2	1043.0	1034.8	1031.4	1037.2	1048.7	1048.7	1041.8	1041.8
42.5°	1166.8	1170.3	1155.2	1143.7	1133.2	1130.9	1134.4	1148.3	1151.8	1150.6	1150.6
45°	1276.8	1274.5	1254.8	1243.2	1233.9	1228.2	1229.3	1239.7	1246.7	1250.2	1250.2
47.5°	1361.3	1357.8	1341.6	1332.3	1326.6	1318.4	1318.4	1324.2	1327.7	1328.9	1328.9
50°	1428.4	1424.9	1408.7	1407.6	1407.6	1404.1	1400.6	1399.5	1397.2	1398.3	1398.3
52.5°	1486.3	1481.7	1470.1	1472.4	1482.8	1485.1	1480.5	1471.2	1462.0	1458.5	1459.7
55°	1548.8	1541.9	1532.6	1539.5	1560.4	1569.6	1562.7	1544.2	1528.0	1517.5	1517.5
57.5°	1598.6	1590.5	1590.5	1610.1	1648.3	1666.9	1651.8	1617.1	1589.3	1577.7	1578.9
60°	1563.8	1556.9	1584.7	1671.5	1743.3	1774.5	1749.1	1687.7	1642.6	1628.7	1631.0
62.5°	1495.6	1490.9	1525.6	1659.9	1828.9	1893.7	1855.6	1767.6	1700.4	1684.2	1684.2
65°	1394.8	1393.7	1442.3	1607.8	1848.6	2008.3	1975.9	1854.4	1767.6	1745.6	1750.2
67.5°	1290.7	1290.7	1334.7	1518.7	1825.5	2057.0	2082.4	1933.1	1800.0	1745.6	1746.7
70°	1106.6	1126.3	1243.2	1436.5	1741.0	2022.2	2126.4	1877.5	1658.8	1562.7	1559.2
72.5°	729.3	754.7	987.4	1293.0	1657.6	1896.1	1919.2	1649.5	1377.5	1265.2	1259.4
75°	439.9	461.9	640.1	1009.4	1457.4	1526.8	1424.9	1293.0	1029.1	941.1	941.1
77.5°	129.6	144.7	295.2	640.1	1008.2	1003.6	878.6	761.7	608.9	517.4	524.4
80°	76.4	78.7	96.1	291.7	417.9	439.9	339.2	211.8	211.8	157.4	152.8
82.5°	59.0	59.0	61.4	72.9	100.7	112.3	85.7	72.9	83.3	70.6	67.1
85°	41.7	41.7	41.7	42.8	44.0	45.1	47.5	48.6	53.2	44.0	41.7
87.5°	12.7	13.9	15.0	17.4	20.8	22.0	23.2	20.8	20.8	19.7	18.5
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)