

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: P798591

Luminaire Tested: **ARCH1-20-727-U-5WQ**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798591  
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: ARCH1-20-727-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

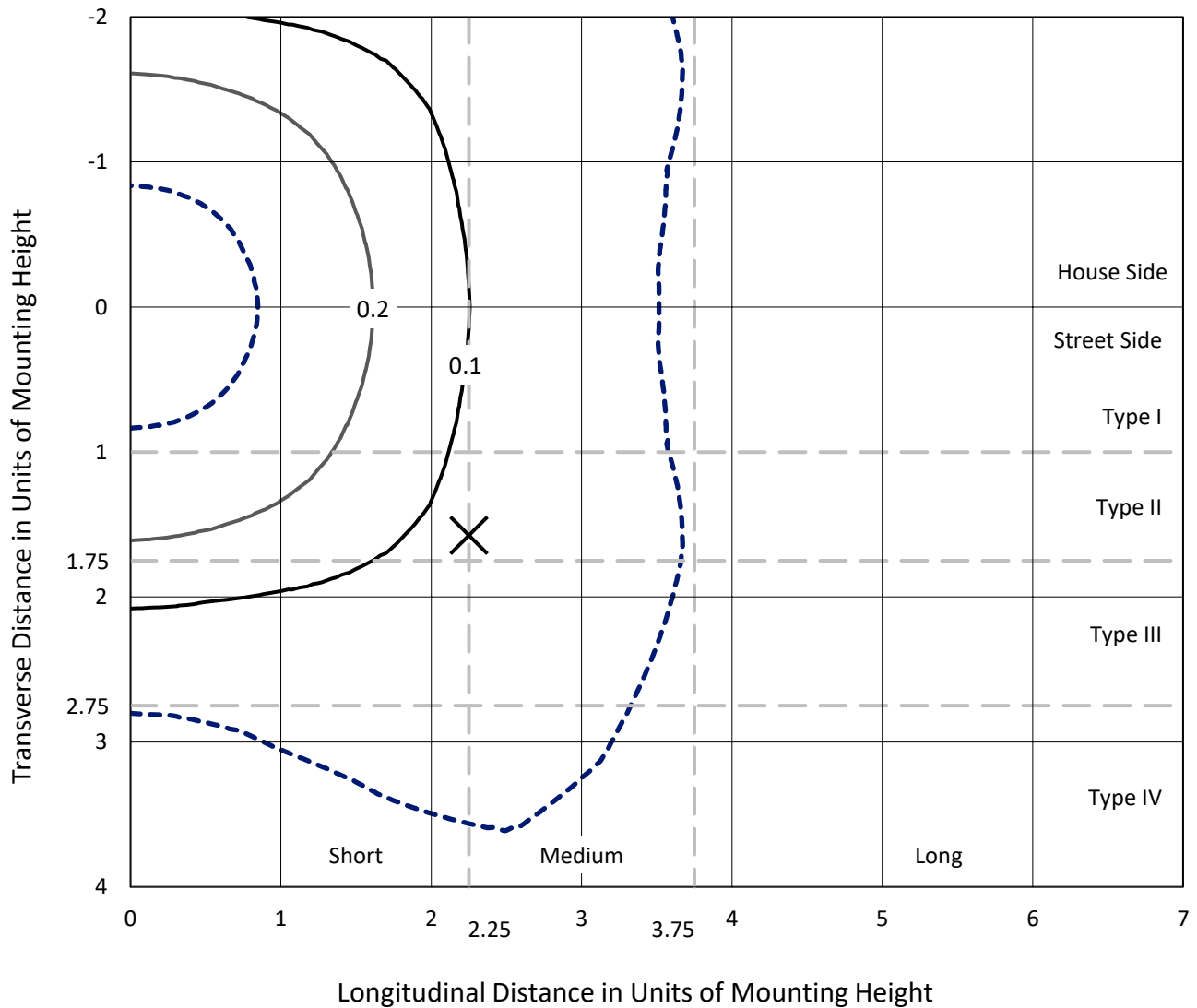
Lumens per Lamp: N/A  
Luminaire Lumens: 3343 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): 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

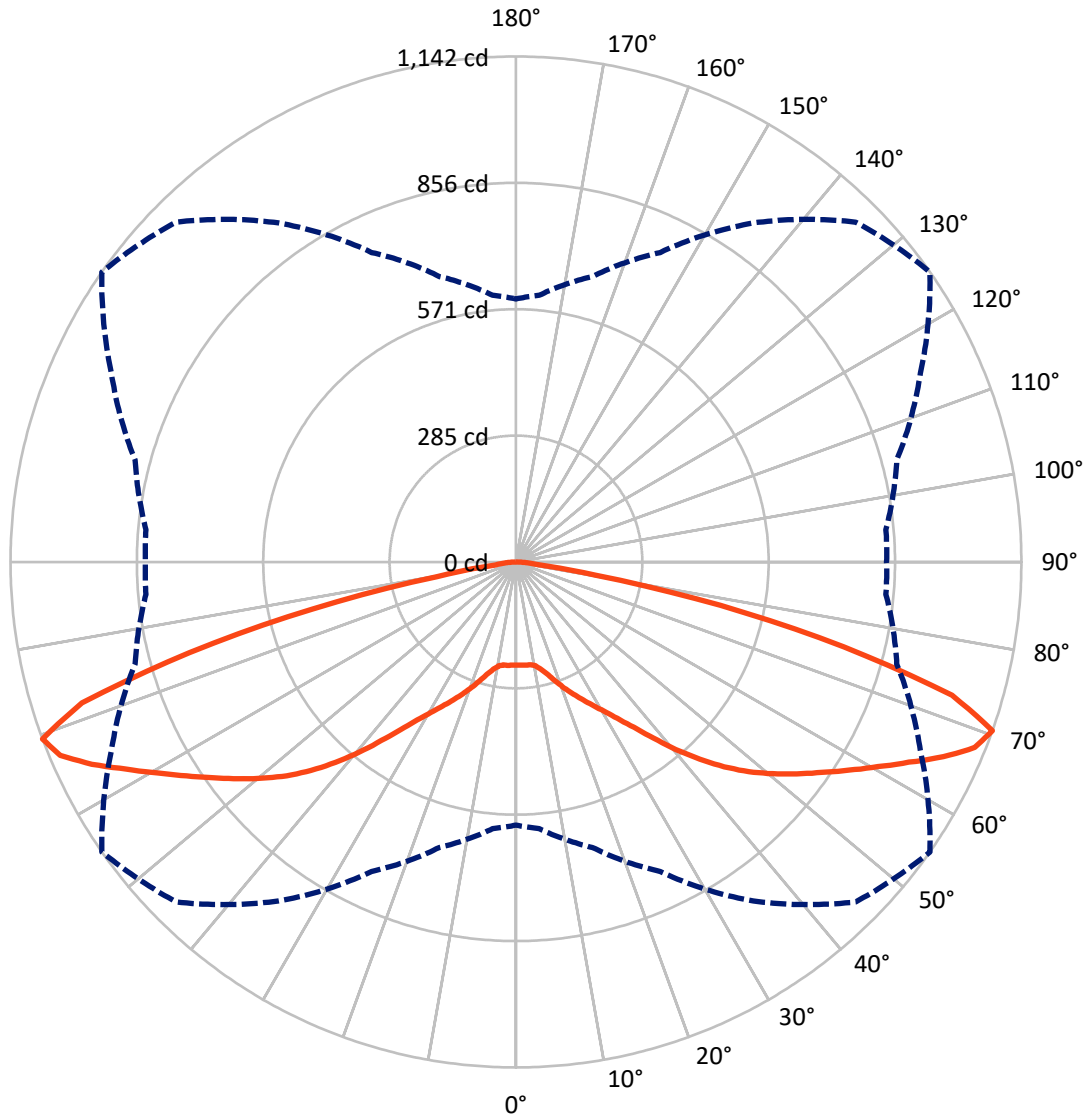
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 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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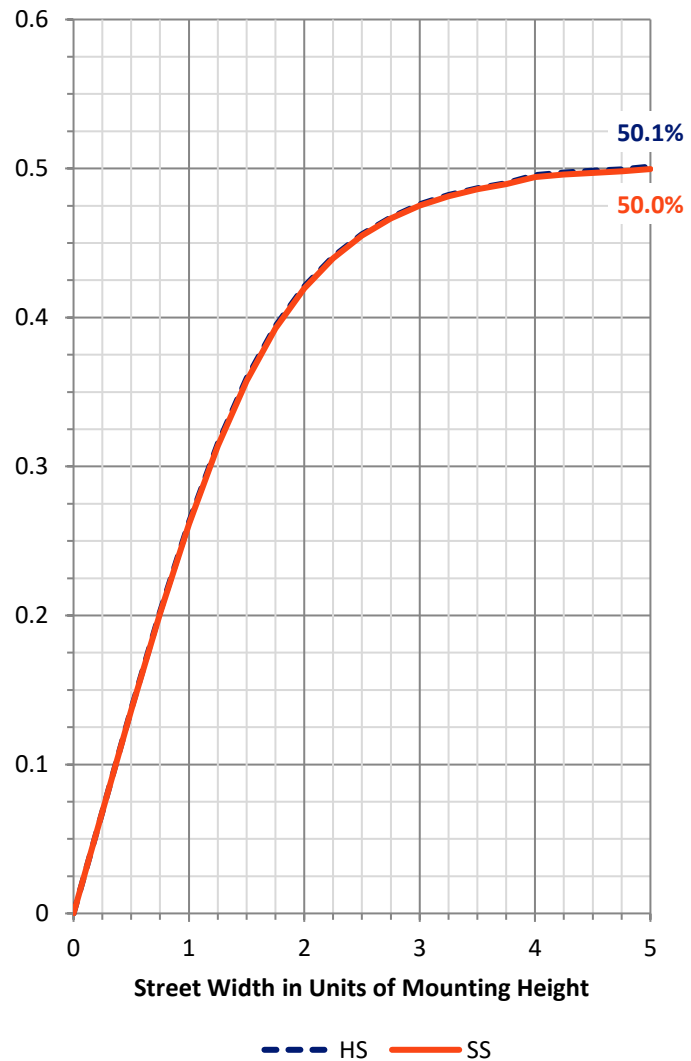
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1671.5	0.0	1671.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1671.5	0.0	1671.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3343.0	0.0	3343.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.5	0.7
10°-20°	76.6	2.3
20°-30°	159.1	4.8
30°-40°	293.8	8.8
40°-50°	516.2	15.4
50°-60°	744.5	22.3
60°-70°	911.2	27.3
70°-80°	579.8	17.3
80°-90°	39.2	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°	3343.0	100.0
0°-180°	3343.0	100.0

**Coefficient of Utilization**



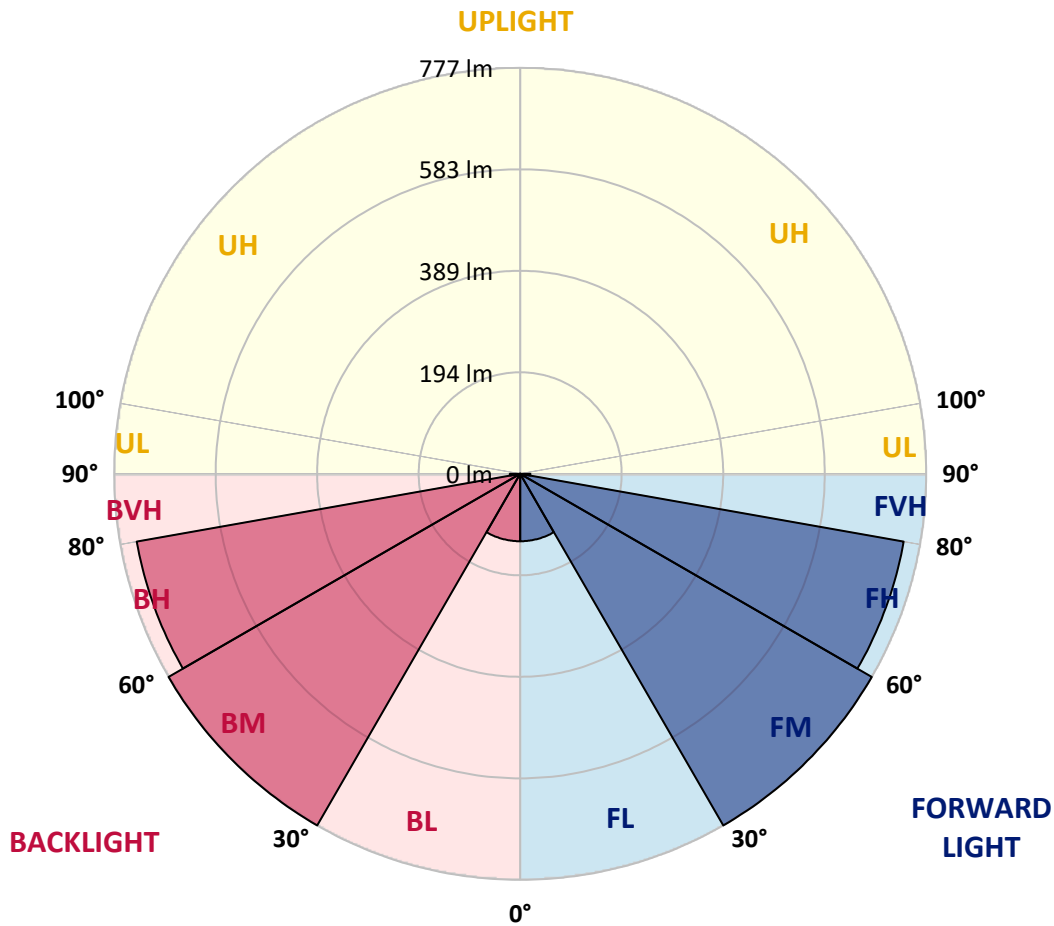
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	129.1	3.9			
FM (30°-60°)	777.3	23.3			
FH (60°-80°)	745.5	22.3			G1/1800
FVH (80°-90°)	19.6	0.6			G1/100
BL (0°-30°)	129.1	3.9	B1/500		
BM (30°-60°)	777.3	23.3	B1/1000		
BH (60°-80°)	745.5	22.3	B2/1000		G1/1800
BVH (80°-90°)	19.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0
2.5°	236.1	236.1	235.5	235.5	234.3	233.7	233.0	233.0	232.4	232.4	231.8
5°	237.4	237.4	237.4	236.8	236.1	235.5	234.3	233.0	232.4	231.8	231.2
7.5°	238.0	238.0	237.4	237.4	236.8	236.1	234.3	232.4	231.8	231.2	231.2
10°	243.0	242.4	241.7	240.5	240.5	240.5	238.0	236.1	235.5	235.5	235.5
12.5°	254.8	254.2	252.9	251.1	251.1	251.7	248.0	245.5	245.5	244.8	244.8
15°	272.2	271.6	270.3	267.2	266.6	267.8	262.2	259.8	259.8	259.8	259.1
17.5°	291.5	290.2	288.3	285.9	285.9	285.9	280.3	277.2	275.3	275.3	274.7
20°	307.6	307.0	307.0	306.4	308.2	308.2	300.8	295.8	291.5	289.0	288.3
22.5°	321.9	321.3	322.5	325.0	328.7	330.0	321.3	313.8	307.0	302.0	300.8
25°	341.2	340.5	339.9	343.7	349.9	351.7	342.4	333.1	326.3	323.8	322.5
27.5°	361.7	362.3	362.9	366.6	371.6	374.7	365.4	356.7	351.1	347.4	346.1
30°	384.7	385.9	387.8	393.4	397.1	398.3	390.3	384.0	379.1	376.0	374.1
32.5°	413.9	416.4	418.8	423.8	425.7	424.4	420.7	416.4	412.6	408.3	407.7
35°	457.4	459.9	459.2	461.1	461.7	460.5	458.6	456.1	454.3	448.7	448.1
37.5°	512.1	514.5	510.8	509.0	504.6	505.2	504.6	506.5	507.1	501.5	500.9
40°	567.4	569.9	564.9	559.9	555.6	553.7	556.8	563.0	563.0	559.3	559.3
42.5°	626.4	628.3	620.2	614.0	608.4	607.1	609.0	616.5	618.3	617.7	617.7
45°	685.4	684.2	673.6	667.4	662.5	659.3	660.0	665.6	669.3	671.2	671.2
47.5°	730.8	728.9	720.2	715.3	712.2	707.8	707.8	710.9	712.8	713.4	713.4
50°	766.9	765.0	756.3	755.7	755.7	753.8	751.9	751.3	750.1	750.7	750.7
52.5°	797.9	795.4	789.2	790.5	796.1	797.3	794.8	789.8	784.9	783.0	783.6
55°	831.5	827.8	822.8	826.5	837.7	842.7	838.9	829.0	820.3	814.7	814.7
57.5°	858.2	853.9	853.9	864.4	884.9	894.9	886.8	868.1	853.2	847.0	847.6
60°	839.6	835.8	850.7	897.4	935.9	952.7	939.0	906.1	881.8	874.4	875.6
62.5°	802.9	800.4	819.1	891.1	981.9	1016.7	996.2	948.9	912.9	904.2	904.2
65°	748.8	748.2	774.3	863.2	992.4	1078.2	1060.8	995.5	948.9	937.1	939.6
67.5°	692.9	692.9	716.5	815.3	980.0	1104.3	1118.0	1037.8	966.3	937.1	937.7
70°	594.1	604.7	667.4	771.2	934.6	1085.6	1141.6	1008.0	890.5	838.9	837.1
72.5°	391.5	405.2	530.1	694.1	889.9	1017.9	1030.3	885.5	739.5	679.2	676.1
75°	236.1	248.0	343.7	541.9	782.4	819.7	765.0	694.1	552.5	505.2	505.2
77.5°	69.6	77.7	158.5	343.7	541.3	538.8	471.7	408.9	326.9	277.8	281.5
80°	41.0	42.3	51.6	156.6	224.3	236.1	182.1	113.7	113.7	84.5	82.0
82.5°	31.7	31.7	32.9	39.2	54.1	60.3	46.0	39.2	44.7	37.9	36.0
85°	22.4	22.4	22.4	23.0	23.6	24.2	25.5	26.1	28.6	23.6	22.4
87.5°	6.8	7.5	8.1	9.3	11.2	11.8	12.4	11.2	11.2	10.6	9.9
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)