

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: P798575

Luminaire Tested: **ARCH1-20-722-U-5WQ**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798575  
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: ARCH1-20-722-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3032 lumens  
Efficiency: N/A  
Efficacy: 129.0 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

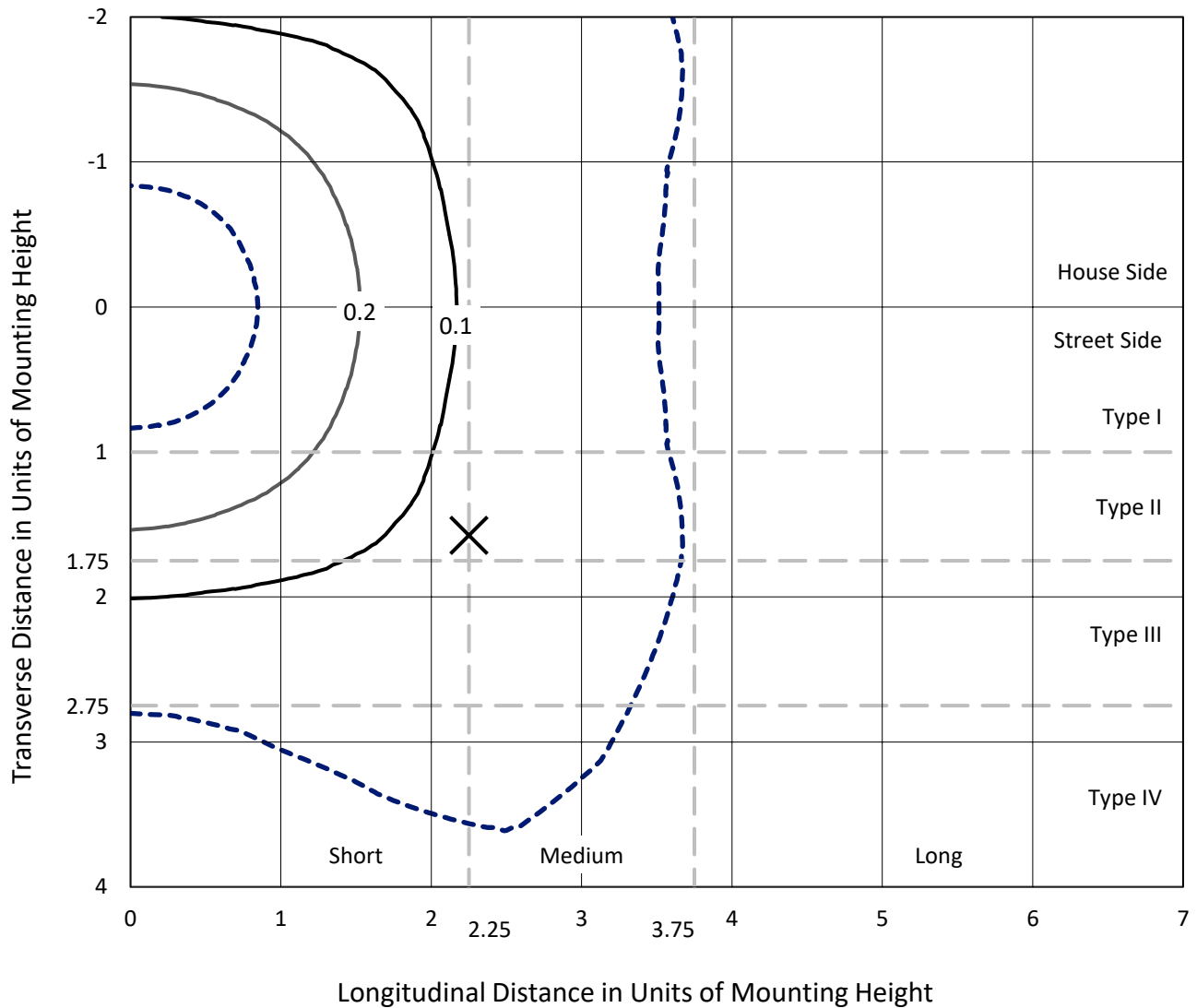
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

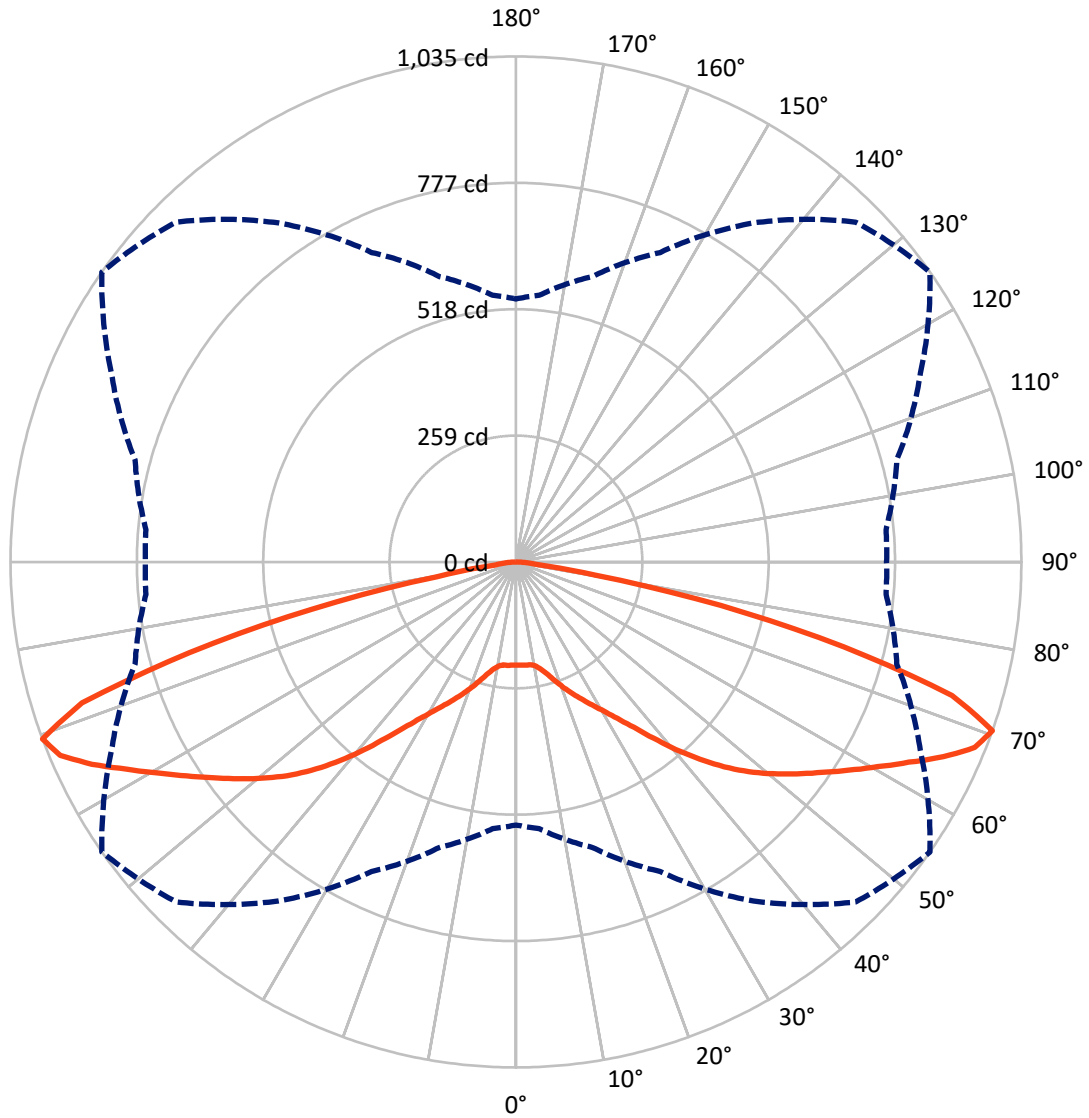
× Max cd  
 - - - 1/2 Max cd



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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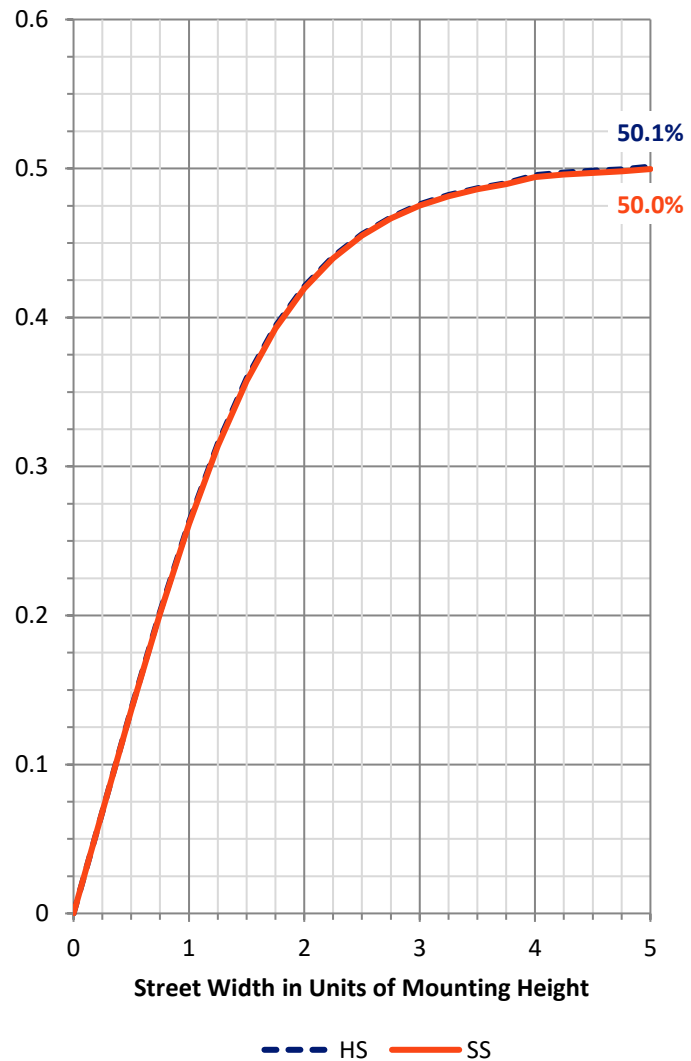
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1516.0	0.0	1516.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1516.0	0.0	1516.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3032.0	0.0	3032.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.4	0.7
10°-20°	69.4	2.3
20°-30°	144.3	4.8
30°-40°	266.5	8.8
40°-50°	468.2	15.4
50°-60°	675.3	22.3
60°-70°	826.4	27.3
70°-80°	525.9	17.3
80°-90°	35.6	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°	3032.0	100.0
0°-180°	3032.0	100.0

**Coefficient of Utilization**



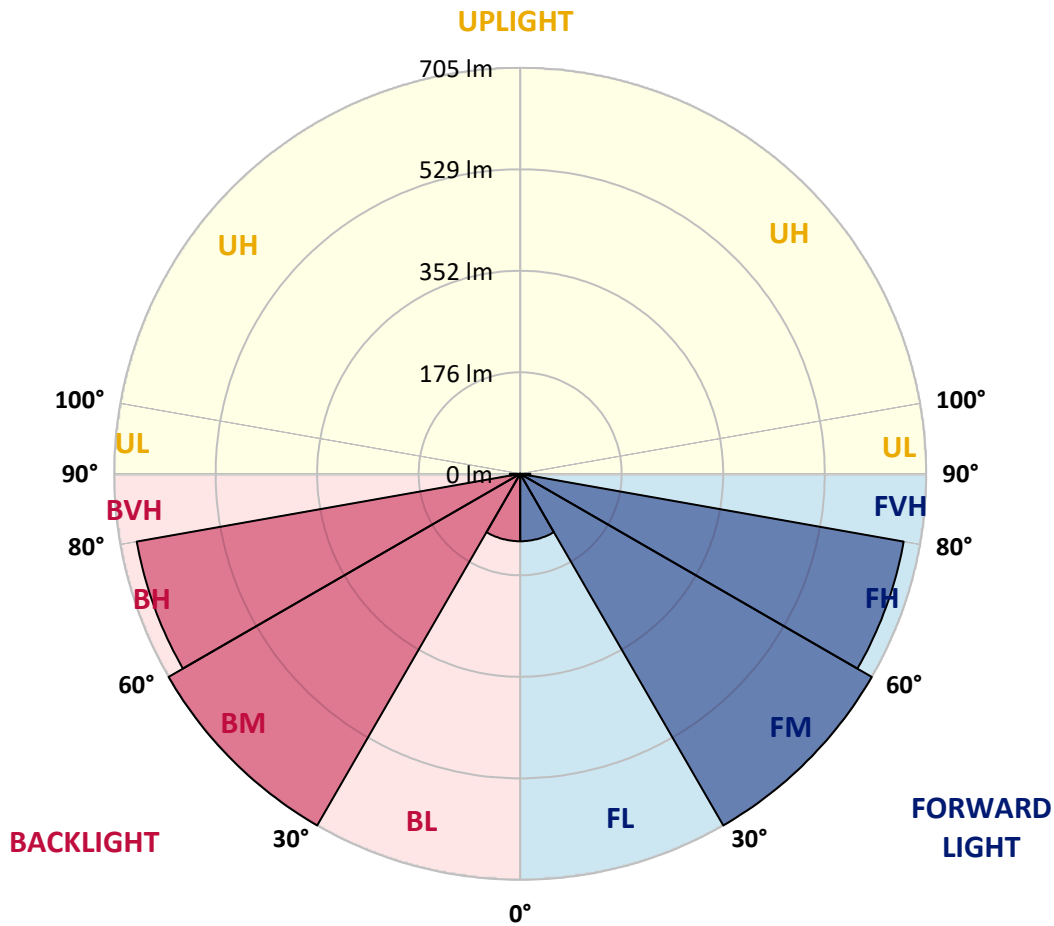
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.1	3.9			
FM	(30°-60°)	705.0	23.3			
FH	(60°-80°)	676.2	22.3			G1/1800
FVH	(80°-90°)	17.8	0.6			G1/100
BL	(0°-30°)	117.1	3.9	B1/500		
BM	(30°-60°)	705.0	23.3	B1/1000		
BH	(60°-80°)	676.2	22.3	B2/1000		G1/1800
BVH	(80°-90°)	17.8	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°	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4
2.5°	214.2	214.2	213.6	213.6	212.5	211.9	211.4	211.4	210.8	210.8	210.2
5°	215.3	215.3	215.3	214.7	214.2	213.6	212.5	211.4	210.8	210.2	209.7
7.5°	215.9	215.9	215.3	215.3	214.7	214.2	212.5	210.8	210.2	209.7	209.7
10°	220.4	219.8	219.2	218.1	218.1	218.1	215.9	214.2	213.6	213.6	213.6
12.5°	231.1	230.5	229.4	227.7	227.7	228.3	224.9	222.6	222.6	222.1	222.1
15°	246.9	246.3	245.2	242.4	241.8	242.9	237.8	235.6	235.6	235.6	235.0
17.5°	264.3	263.2	261.5	259.3	259.3	259.3	254.2	251.4	249.7	249.7	249.1
20°	279.0	278.4	278.4	277.9	279.6	279.6	272.8	268.3	264.3	262.1	261.5
22.5°	292.0	291.4	292.5	294.8	298.2	299.3	291.4	284.6	278.4	273.9	272.8
25°	309.4	308.9	308.3	311.7	317.3	319.0	310.6	302.1	295.9	293.6	292.5
27.5°	328.0	328.6	329.2	332.5	337.0	339.9	331.4	323.5	318.4	315.1	313.9
30°	348.9	350.0	351.7	356.8	360.2	361.3	354.0	348.3	343.8	341.0	339.3
32.5°	375.4	377.6	379.9	384.4	386.1	385.0	381.6	377.6	374.2	370.3	369.7
35°	414.8	417.1	416.5	418.2	418.8	417.6	416.0	413.7	412.0	406.9	406.4
37.5°	464.4	466.7	463.3	461.6	457.7	458.2	457.7	459.4	459.9	454.8	454.3
40°	514.6	516.8	512.3	507.8	503.9	502.2	505.0	510.6	510.6	507.3	507.3
42.5°	568.1	569.8	562.5	556.9	551.8	550.7	552.4	559.1	560.8	560.2	560.2
45°	621.7	620.6	611.0	605.3	600.8	598.0	598.6	603.6	607.0	608.7	608.7
47.5°	662.8	661.1	653.2	648.7	645.9	642.0	642.0	644.8	646.5	647.0	647.0
50°	695.5	693.8	685.9	685.4	685.4	683.7	682.0	681.4	680.3	680.9	680.9
52.5°	723.7	721.4	715.8	716.9	722.0	723.1	720.9	716.4	711.9	710.2	710.7
55°	754.1	750.7	746.2	749.6	759.8	764.3	760.9	751.9	744.0	738.9	738.9
57.5°	778.4	774.4	774.4	784.0	802.6	811.6	804.3	787.4	773.9	768.2	768.8
60°	761.5	758.1	771.6	813.9	848.8	864.0	851.6	821.8	799.8	793.0	794.1
62.5°	728.2	725.9	742.9	808.2	890.5	922.1	903.5	860.7	828.0	820.1	820.1
65°	679.2	678.6	702.3	782.9	900.1	977.9	962.1	902.9	860.7	849.9	852.2
67.5°	628.4	628.4	649.9	739.5	888.8	1001.6	1014.0	941.3	876.4	849.9	850.5
70°	538.8	548.4	605.3	699.5	847.7	984.7	1035.4	914.2	807.7	760.9	759.2
72.5°	355.1	367.5	480.8	629.6	807.1	923.2	934.5	803.2	670.7	616.0	613.2
75°	214.2	224.9	311.7	491.5	709.6	743.4	693.8	629.6	501.1	458.2	458.2
77.5°	63.1	70.5	143.7	311.7	490.9	488.7	427.8	370.9	296.5	251.9	255.3
80°	37.2	38.3	46.8	142.0	203.5	214.2	165.1	103.1	103.1	76.7	74.4
82.5°	28.7	28.7	29.9	35.5	49.0	54.7	41.7	35.5	40.6	34.4	32.7
85°	20.3	20.3	20.3	20.9	21.4	22.0	23.1	23.7	25.9	21.4	20.3
87.5°	6.2	6.8	7.3	8.5	10.1	10.7	11.3	10.1	10.1	9.6	9.0
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)