

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: P348720

Luminaire Tested: **ARCH-N-PA1-50-750-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-50-750-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 980mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6955 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

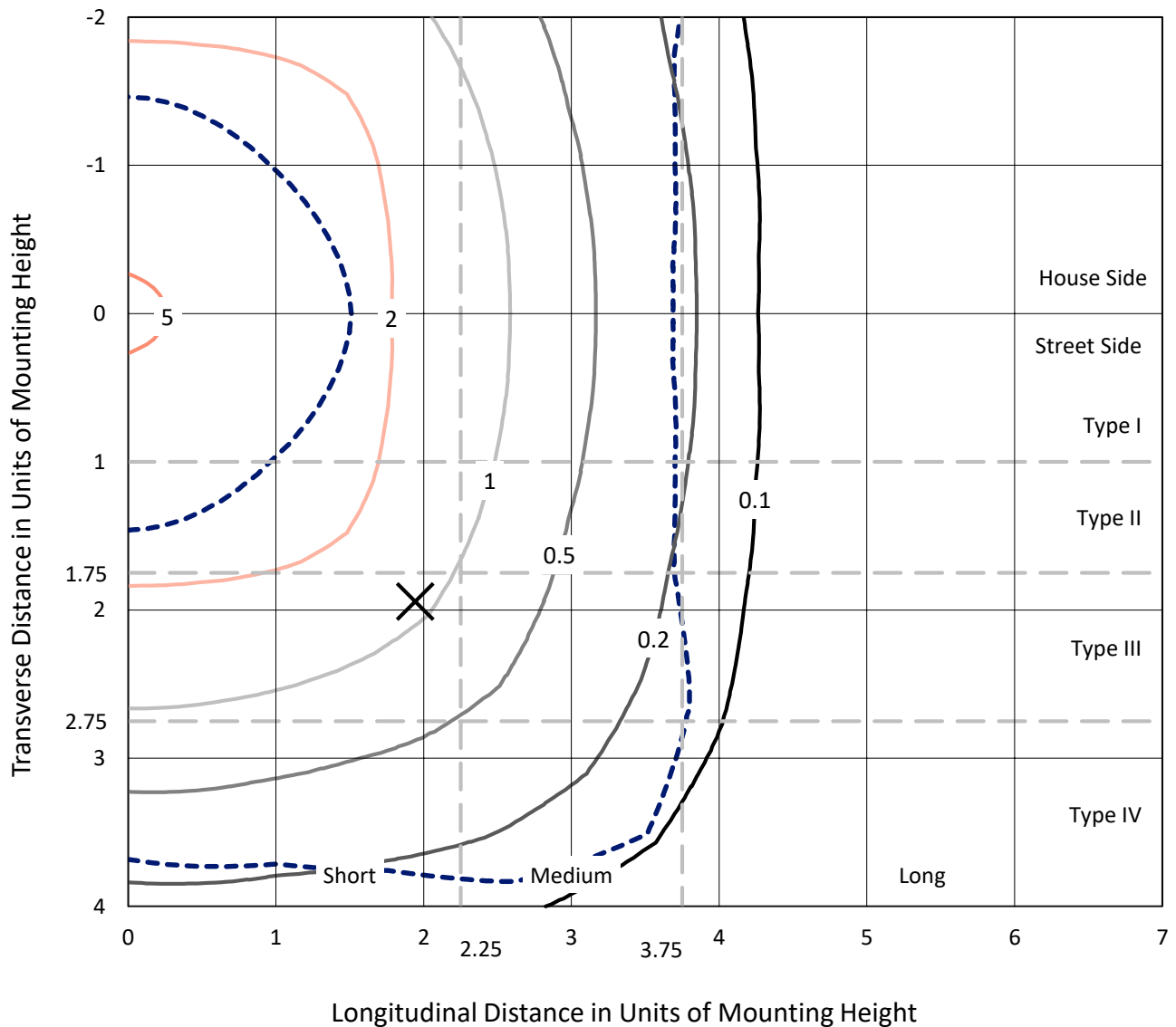
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

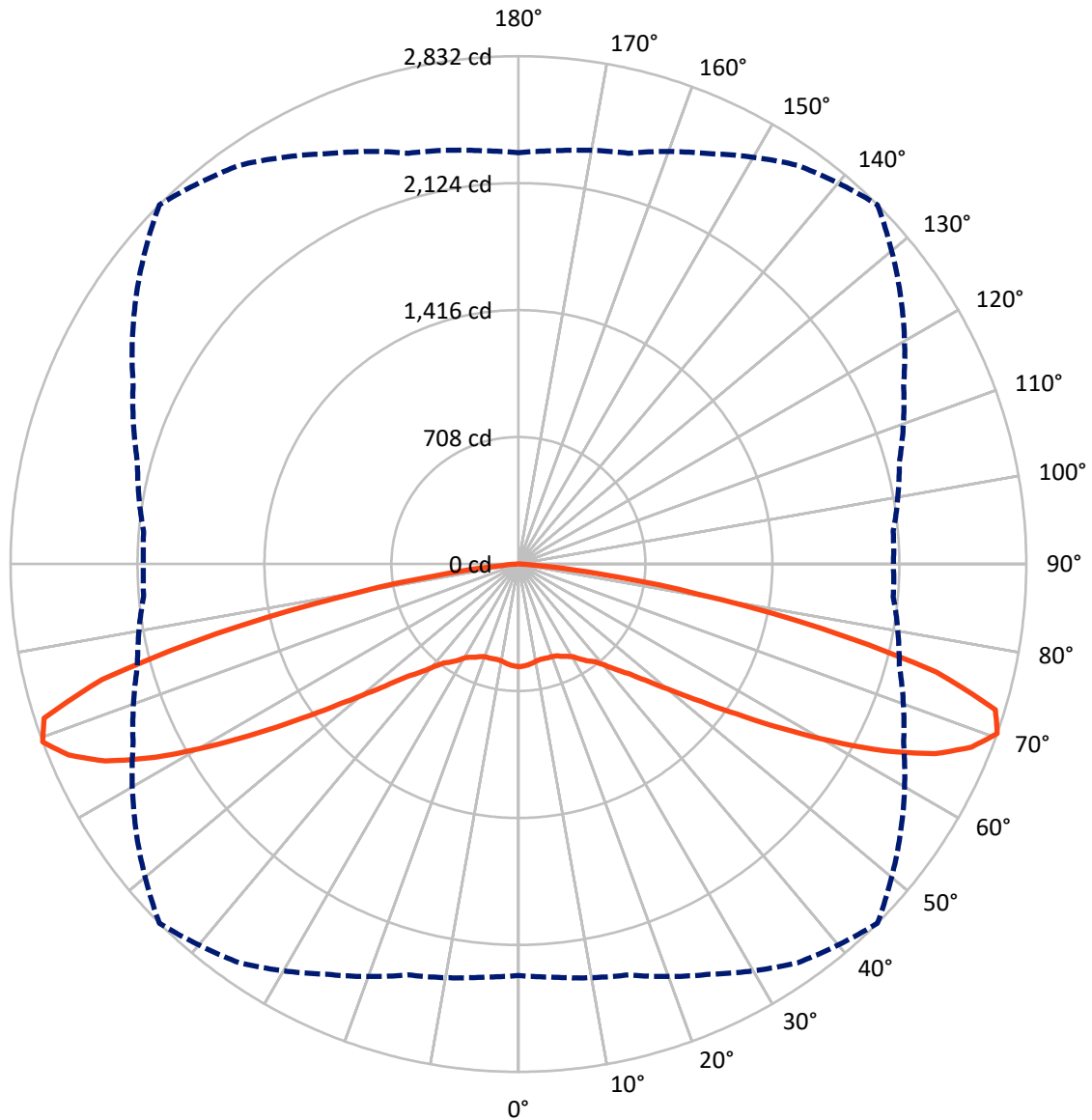
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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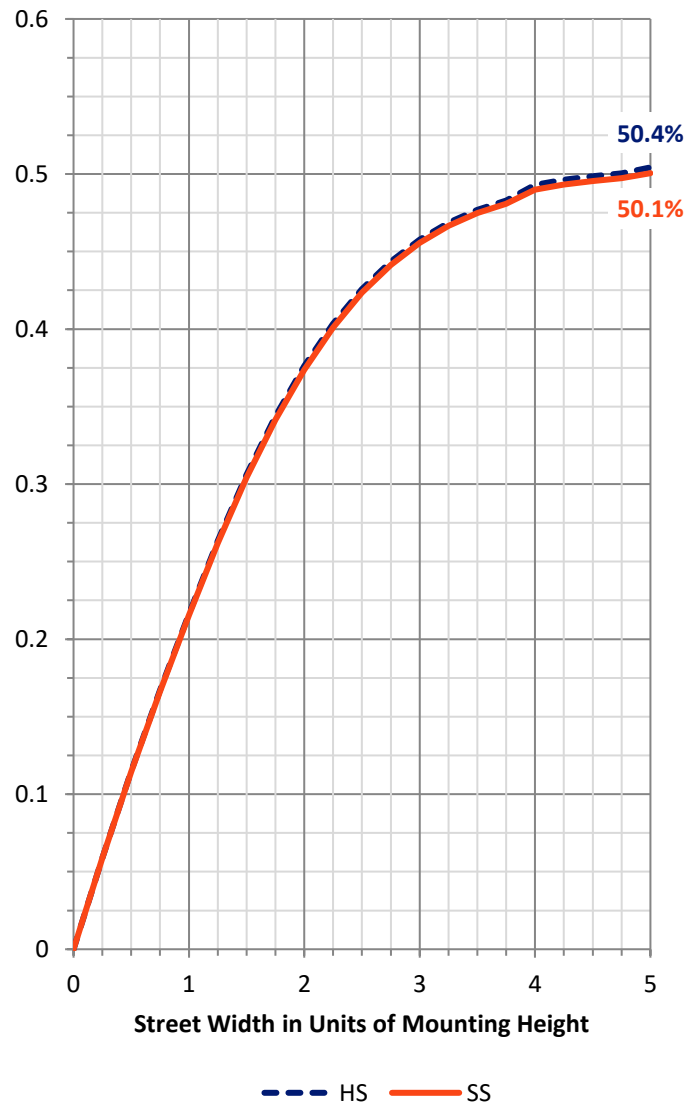
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3477.5	0.0	3477.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3477.5	0.0	3477.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6955.0	0.0	6955.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	0.8
10°-20°	156.1	2.2
20°-30°	266.1	3.8
30°-40°	415.7	6.0
40°-50°	704.6	10.1
50°-60°	1284.8	18.5
60°-70°	2211.9	31.8
70°-80°	1733.8	24.9
80°-90°	128.6	1.8
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°	6955.0	100.0
0°-180°	6955.0	100.0



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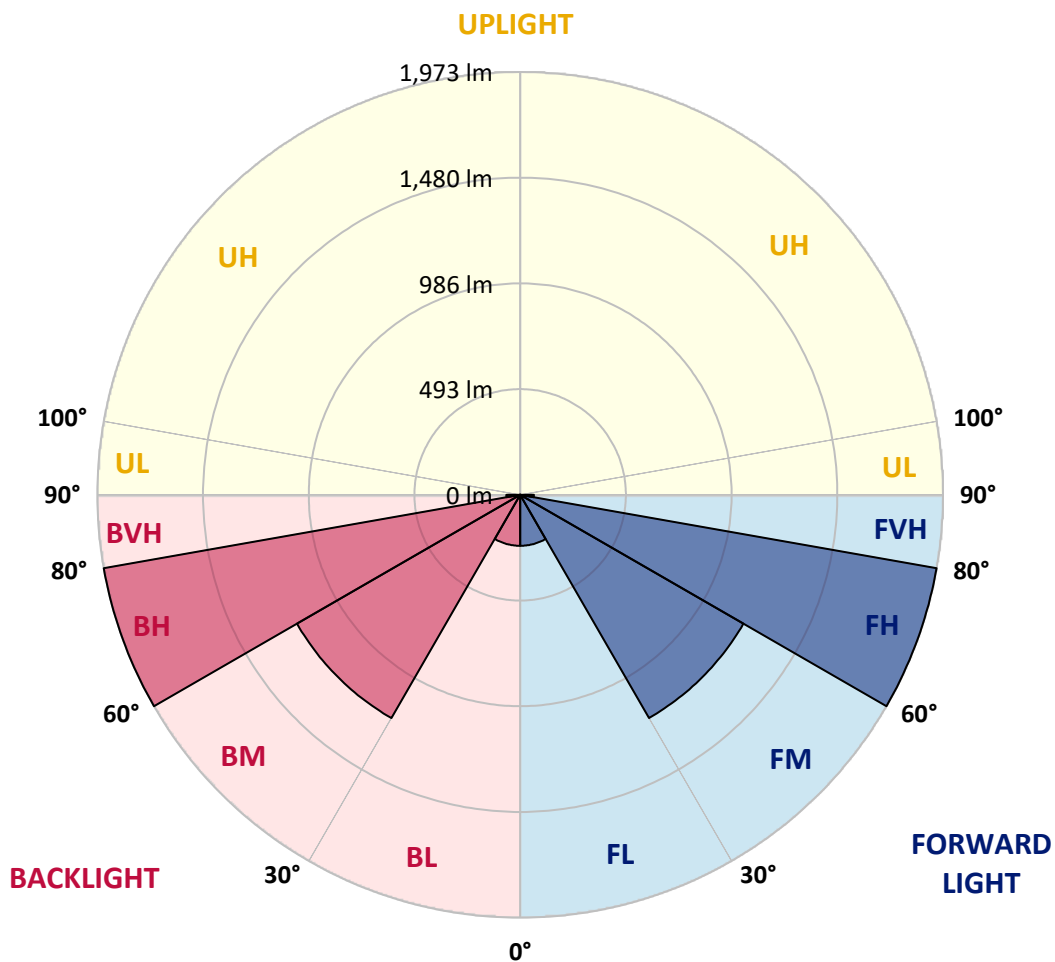
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.8	3.4			
FM	(30°-60°)	1202.6	17.3			
FH	(60°-80°)	1972.9	28.4			G2/5000
FVH	(80°-90°)	64.3	0.9			G1/100
BL	(0°-30°)	237.8	3.4	B1/500		
BM	(30°-60°)	1202.6	17.3	B2/2500		
BH	(60°-80°)	1972.9	28.4	B3/2500		G2/5000
BVH	(80°-90°)	64.3	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	572.4	572.4	572.4	572.4	572.4	572.4	572.4	572.4	572.4	572.4	572.4
2.5°	569.9	570.6	569.9	570.3	569.2	569.6	569.6	569.6	569.4	569.6	569.2
5°	564.8	565.3	564.3	564.8	564.1	564.8	565.0	564.8	564.3	564.6	563.7
7.5°	557.2	557.7	557.0	557.7	556.8	557.9	557.7	557.0	556.3	556.3	555.4
10°	553.1	553.3	551.5	550.8	548.7	549.2	549.9	550.5	551.2	552.6	552.4
12.5°	553.3	553.3	550.5	547.6	544.6	545.2	546.4	548.9	551.7	554.2	554.5
15°	555.6	555.4	551.2	546.4	544.3	546.4	547.1	548.7	553.1	557.4	557.7
17.5°	557.2	557.2	550.8	545.2	545.0	548.2	548.0	548.7	553.5	560.0	560.2
20°	560.2	560.2	551.9	545.9	545.9	549.4	549.6	550.8	555.6	562.7	563.9
22.5°	566.9	567.1	558.4	553.5	554.0	556.1	556.8	558.6	563.0	570.8	572.2
25°	576.3	576.8	567.8	565.0	566.6	570.6	570.1	571.5	576.3	583.9	585.3
27.5°	589.4	588.3	580.0	578.8	580.4	583.2	583.0	583.2	587.1	594.0	595.6
30°	606.4	606.0	600.0	600.7	600.0	599.1	599.3	601.2	603.2	608.7	610.4
32.5°	623.0	623.5	619.8	623.2	628.3	631.8	626.5	621.4	619.1	622.1	623.5
35°	652.9	654.1	648.3	646.0	652.9	663.0	648.1	639.8	644.4	648.3	649.5
37.5°	703.8	704.5	694.8	685.6	680.5	690.2	675.2	675.9	692.0	699.4	699.2
40°	761.7	762.0	755.5	747.5	738.7	741.0	735.1	736.9	747.5	754.1	756.0
42.5°	830.8	830.1	819.9	808.4	805.9	808.2	798.1	796.7	808.9	820.9	821.1
45°	920.3	918.6	905.5	892.9	880.7	875.6	873.1	879.8	896.6	907.6	907.8
47.5°	1016.6	1012.3	1005.4	995.3	984.7	979.6	975.5	978.7	990.9	995.3	995.7
50°	1115.8	1116.7	1118.1	1114.2	1110.3	1108.7	1097.9	1091.7	1095.3	1087.3	1086.1
52.5°	1233.4	1235.2	1248.6	1259.8	1266.5	1269.9	1249.5	1228.1	1216.1	1200.5	1195.9
55°	1372.1	1375.1	1394.6	1425.9	1458.1	1475.2	1438.1	1398.1	1361.1	1331.8	1322.4
57.5°	1526.7	1532.0	1558.9	1619.0	1685.0	1725.2	1662.7	1590.0	1518.4	1476.3	1469.0
60°	1708.0	1713.1	1750.3	1836.4	1943.3	2003.9	1909.1	1790.1	1701.1	1660.8	1647.3
62.5°	1923.8	1924.2	1970.0	2070.6	2211.8	2296.0	2167.7	2008.7	1916.9	1868.3	1855.2
65°	2155.9	2157.1	2204.5	2313.1	2459.1	2550.7	2405.8	2240.1	2127.9	2056.3	2046.2
67.5°	2320.0	2324.8	2374.7	2505.4	2642.0	2724.6	2574.6	2387.4	2257.6	2172.3	2163.7
70°	2293.7	2312.6	2371.3	2523.8	2713.8	2831.6	2602.0	2369.9	2198.7	2097.9	2090.8
72.5°	2000.4	2036.5	2114.7	2314.9	2618.8	2781.0	2452.7	2122.6	1928.9	1843.0	1830.2
75°	1362.2	1420.9	1538.9	1827.6	2237.4	2407.8	2064.8	1692.3	1510.1	1391.4	1382.7
77.5°	607.4	620.7	770.3	1102.7	1544.0	1729.2	1500.2	1107.1	831.0	662.8	627.4
80°	169.3	171.4	228.7	410.7	772.8	1016.0	829.6	431.4	242.5	170.9	161.0
82.5°	53.8	58.4	71.3	106.5	259.7	463.6	266.6	115.0	81.9	65.3	58.9
85°	26.2	26.0	36.1	43.3	66.3	102.6	70.6	53.4	46.7	31.1	28.1
87.5°	11.0	11.3	16.8	15.2	19.3	16.6	22.8	23.9	25.1	13.8	12.0
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)