

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: P348721

Luminaire Tested: **ARCH-N-PA1-60-750-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348721
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-PA1-60-750-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7824 lumens
Efficiency: N/A
Efficacy: 126.2 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

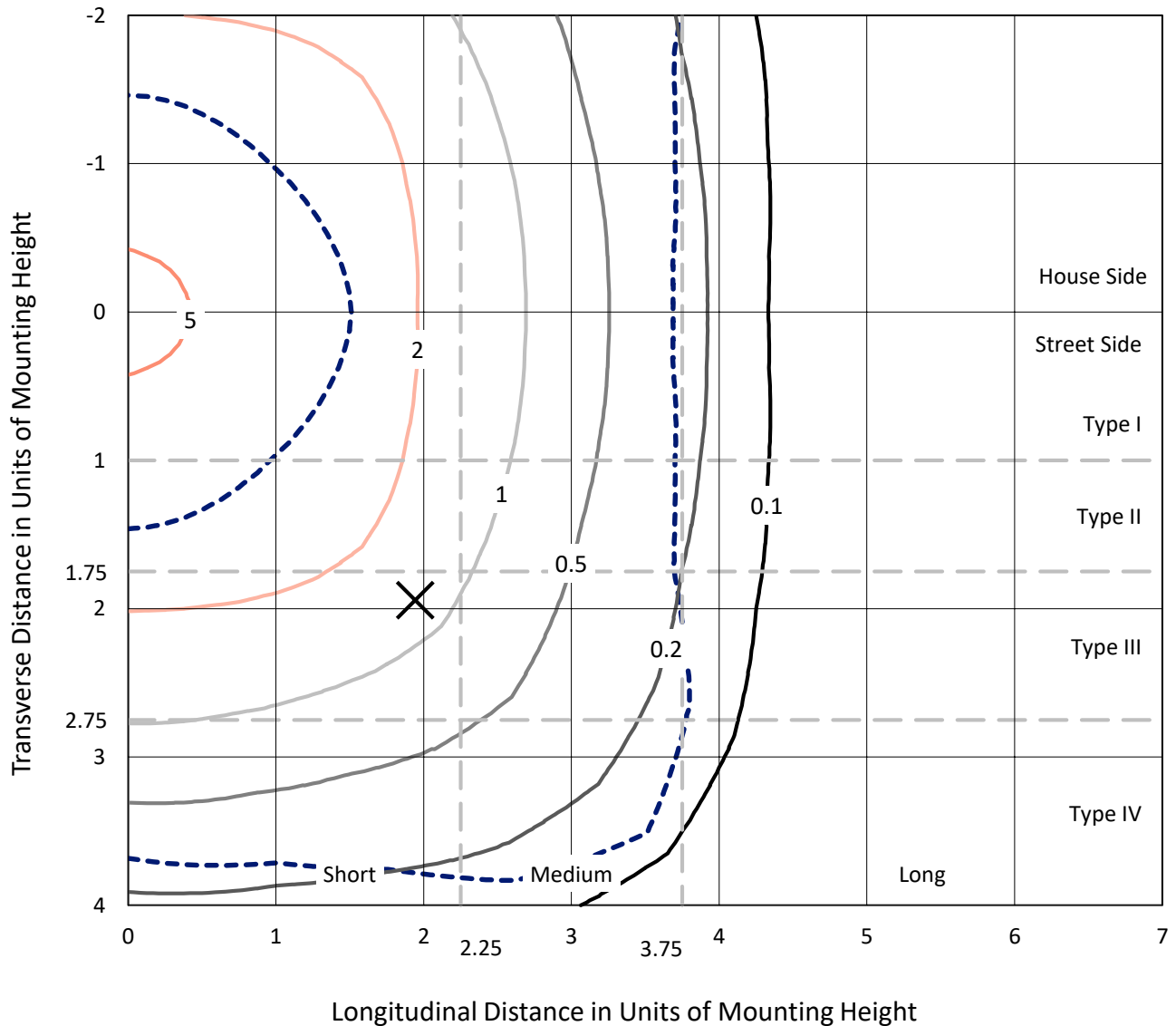
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

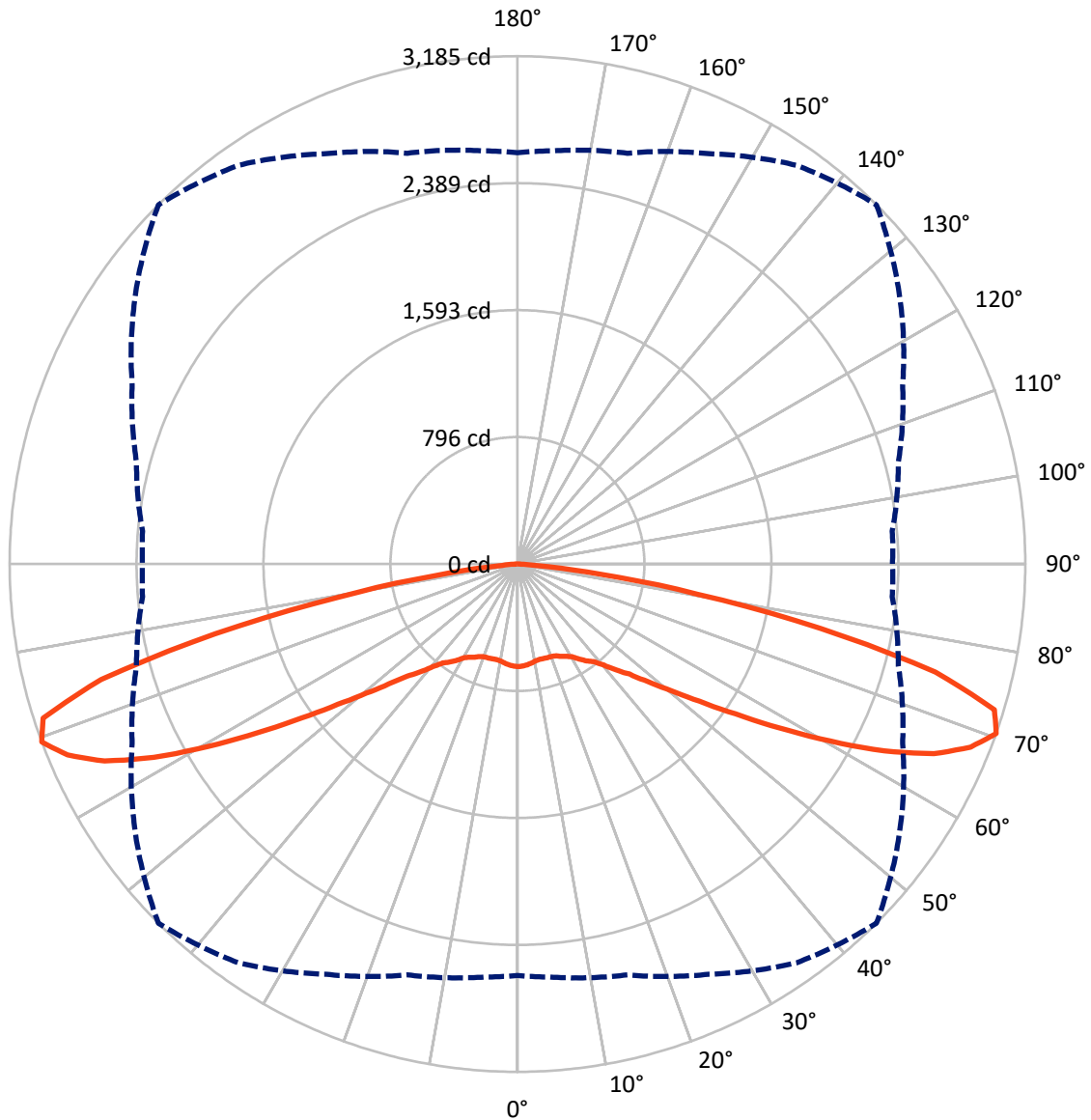
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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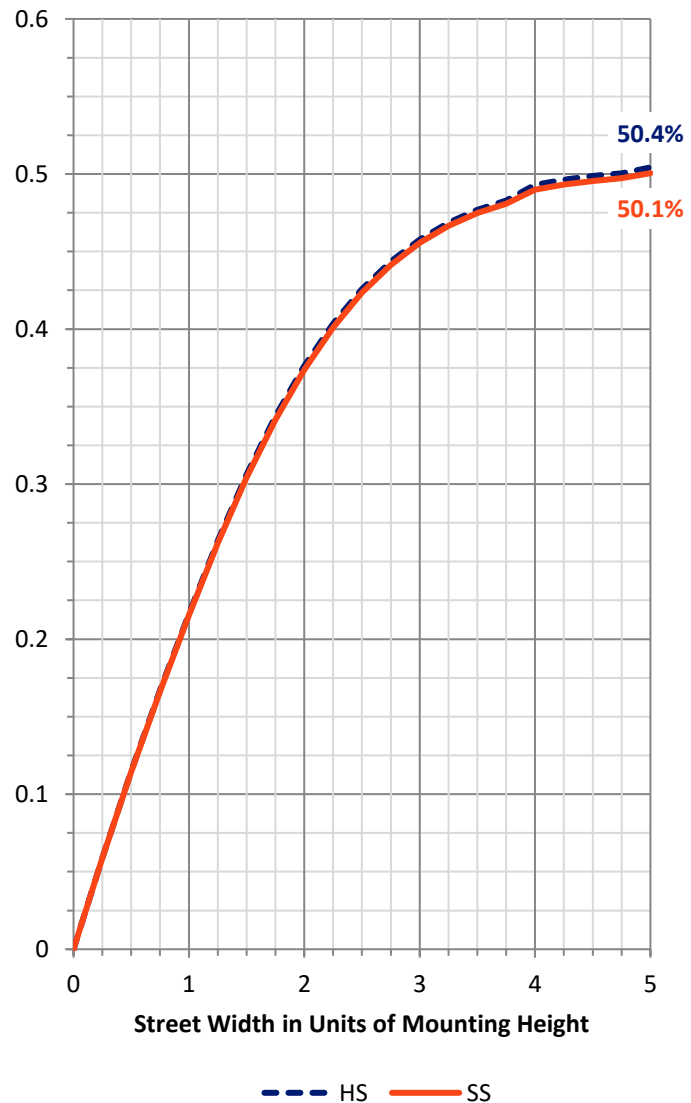
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3912.0	0.0	3912.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3912.0	0.0	3912.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7824.0	0.0	7824.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	0.8
10°-20°	175.6	2.2
20°-30°	299.3	3.8
30°-40°	467.7	6.0
40°-50°	792.6	10.1
50°-60°	1445.4	18.5
60°-70°	2488.3	31.8
70°-80°	1950.4	24.9
80°-90°	144.6	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°	7824.0	100.0
0°-180°	7824.0	100.0



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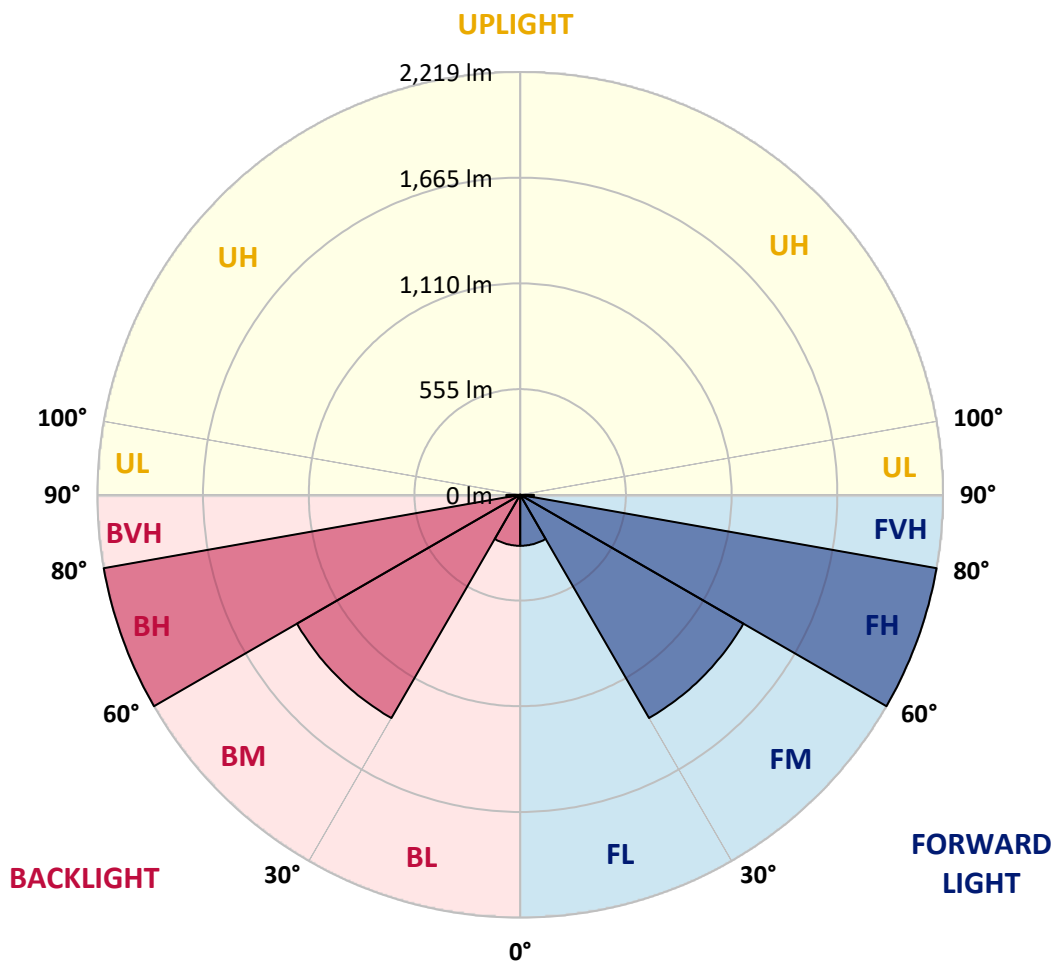
CATALOG NUMBER: ARCH-N-PA1-60-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.5	3.4			
FM	(30°-60°)	1352.8	17.3			
FH	(60°-80°)	2219.4	28.4			G2/5000
FVH	(80°-90°)	72.3	0.9			G1/100
BL	(0°-30°)	267.5	3.4	B1/500		
BM	(30°-60°)	1352.8	17.3	B2/2500		
BH	(60°-80°)	2219.4	28.4	B3/2500		G2/5000
BVH	(80°-90°)	72.3	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°	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9
2.5°	641.1	641.8	641.1	641.6	640.3	640.8	640.8	640.8	640.6	640.8	640.3
5°	635.4	635.9	634.9	635.4	634.6	635.4	635.6	635.4	634.9	635.1	634.1
7.5°	626.8	627.4	626.6	627.4	626.3	627.6	627.4	626.6	625.8	625.8	624.8
10°	622.2	622.4	620.4	619.6	617.3	617.8	618.6	619.3	620.1	621.7	621.4
12.5°	622.4	622.4	619.3	616.0	612.6	613.4	614.7	617.5	620.6	623.5	623.7
15°	625.0	624.8	620.1	614.7	612.3	614.7	615.4	617.3	622.2	627.1	627.4
17.5°	626.8	626.8	619.6	613.4	613.1	616.7	616.5	617.3	622.7	629.9	630.2
20°	630.2	630.2	620.9	614.2	614.2	618.0	618.3	619.6	625.0	633.0	634.3
22.5°	637.7	638.0	628.1	622.7	623.2	625.5	626.3	628.4	633.3	642.1	643.7
25°	648.3	648.8	638.7	635.6	637.4	641.8	641.3	642.9	648.3	656.9	658.4
27.5°	663.1	661.8	652.5	651.2	653.0	656.1	655.8	656.1	660.5	668.2	670.1
30°	682.2	681.7	675.0	675.7	675.0	673.9	674.2	676.3	678.6	684.8	686.6
32.5°	700.9	701.4	697.2	701.1	706.8	710.7	704.7	699.0	696.5	699.8	701.4
35°	734.5	735.8	729.3	726.7	734.5	745.9	729.1	719.7	724.9	729.3	730.6
37.5°	791.7	792.5	781.6	771.3	765.6	776.4	759.6	760.4	778.5	786.8	786.5
40°	856.9	857.2	849.9	840.9	831.0	833.6	826.9	829.0	840.9	848.4	850.4
42.5°	934.6	933.8	922.4	909.5	906.6	909.2	897.8	896.3	910.0	923.4	923.7
45°	1035.2	1033.4	1018.7	1004.4	990.7	985.0	982.2	989.7	1008.6	1021.0	1021.3
47.5°	1143.7	1138.8	1131.0	1119.6	1107.7	1102.0	1097.3	1101.0	1114.7	1119.6	1120.1
50°	1255.2	1256.3	1257.8	1253.4	1249.0	1247.2	1235.0	1228.0	1232.2	1223.1	1221.8
52.5°	1387.5	1389.5	1404.6	1417.2	1424.7	1428.6	1405.6	1381.5	1368.1	1350.5	1345.3
55°	1543.5	1546.9	1568.9	1604.1	1640.3	1659.5	1617.8	1572.8	1531.1	1498.2	1487.6
57.5°	1717.5	1723.4	1753.7	1821.2	1895.5	1940.8	1870.4	1788.6	1708.1	1660.8	1652.5
60°	1921.4	1927.1	1969.0	2065.8	2186.2	2254.2	2147.6	2013.8	1913.6	1868.3	1853.1
62.5°	2164.2	2164.7	2216.2	2329.3	2488.2	2582.9	2438.5	2259.7	2156.4	2101.8	2087.0
65°	2425.3	2426.6	2479.9	2602.1	2766.4	2869.4	2706.4	2520.0	2393.7	2313.2	2301.8
67.5°	2609.8	2615.3	2671.4	2818.4	2972.2	3065.1	2896.3	2685.7	2539.7	2443.7	2434.1
70°	2580.3	2601.5	2667.5	2839.1	3052.9	3185.4	2927.1	2666.0	2473.4	2360.1	2352.1
72.5°	2250.3	2291.0	2379.0	2604.1	2946.0	3128.5	2759.2	2387.8	2169.9	2073.3	2058.8
75°	1532.4	1598.4	1731.2	2056.0	2516.9	2708.7	2322.8	1903.8	1698.8	1565.3	1555.4
77.5°	683.3	698.3	866.5	1240.5	1736.9	1945.2	1687.7	1245.4	934.8	745.6	705.8
80°	190.5	192.8	257.3	462.0	869.3	1142.9	933.3	485.3	272.8	192.3	181.2
82.5°	60.6	65.7	80.2	119.8	292.2	521.5	300.0	129.4	92.1	73.5	66.3
85°	29.5	29.2	40.6	48.7	74.5	115.4	79.5	60.0	52.5	34.9	31.6
87.5°	12.4	12.7	18.9	17.1	21.7	18.6	25.6	26.9	28.2	15.5	13.5
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)