

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: P398120

Luminaire Tested: **ARCH-S-PA1-90-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-90-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10854 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 94
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

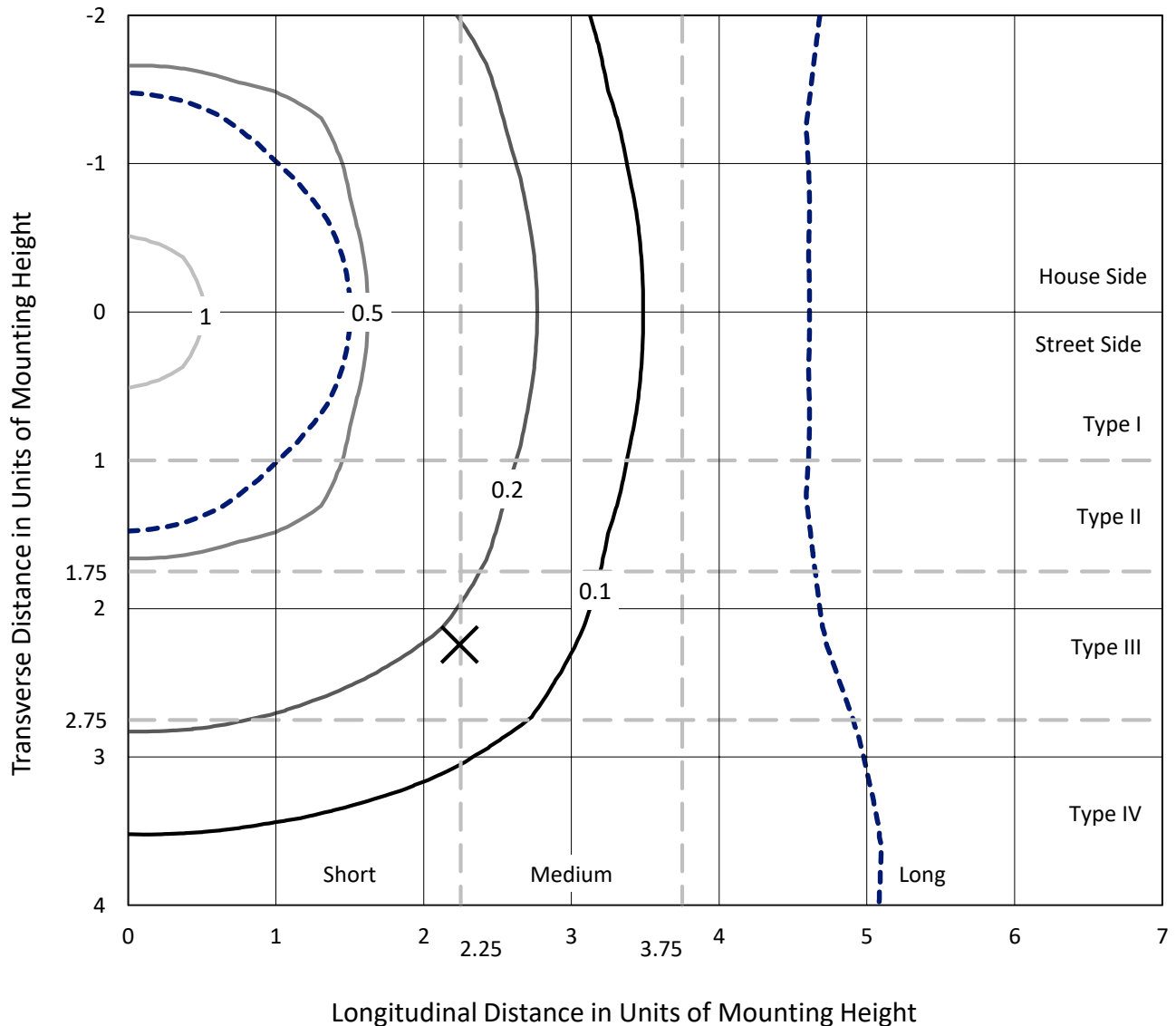




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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

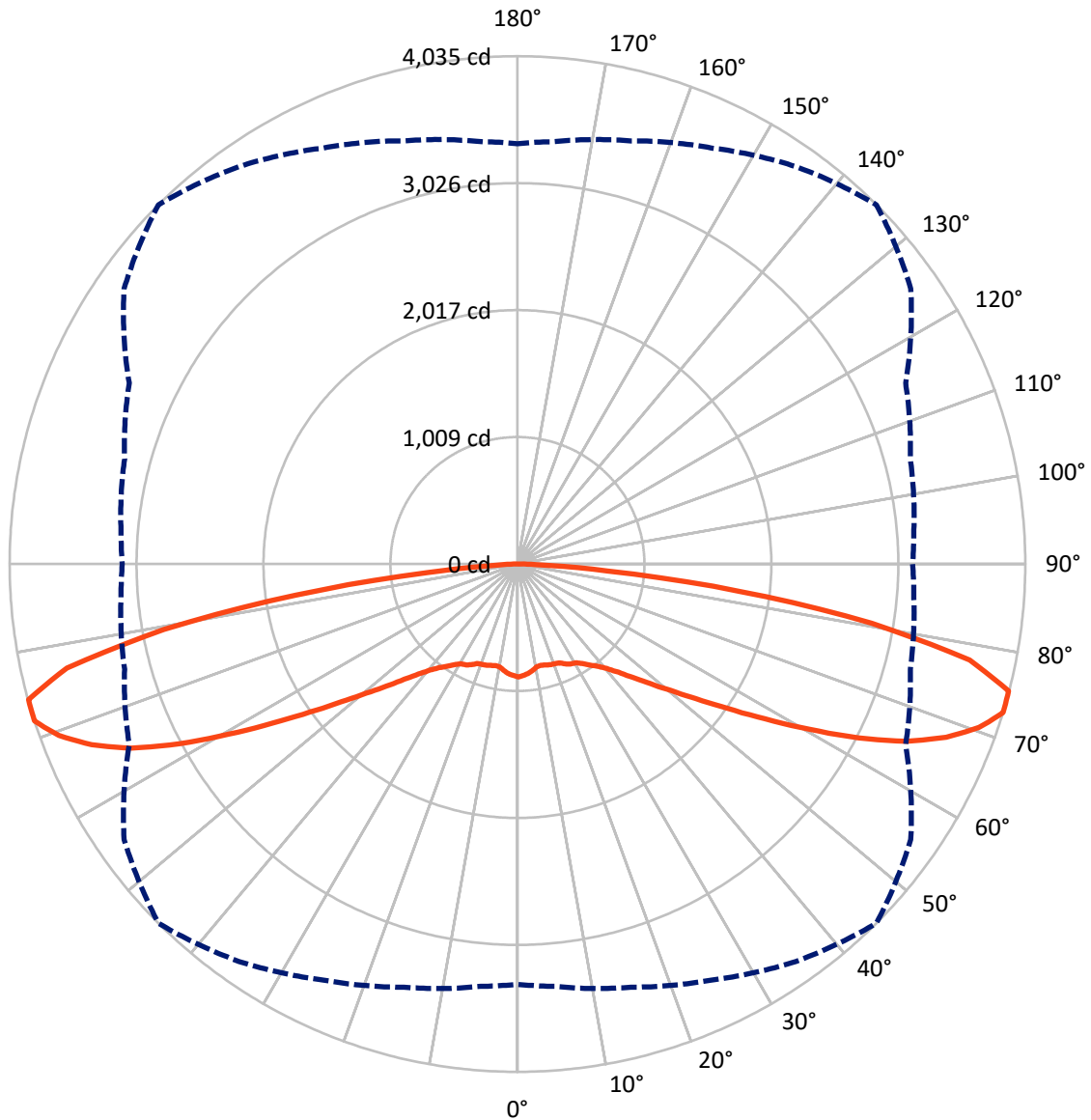


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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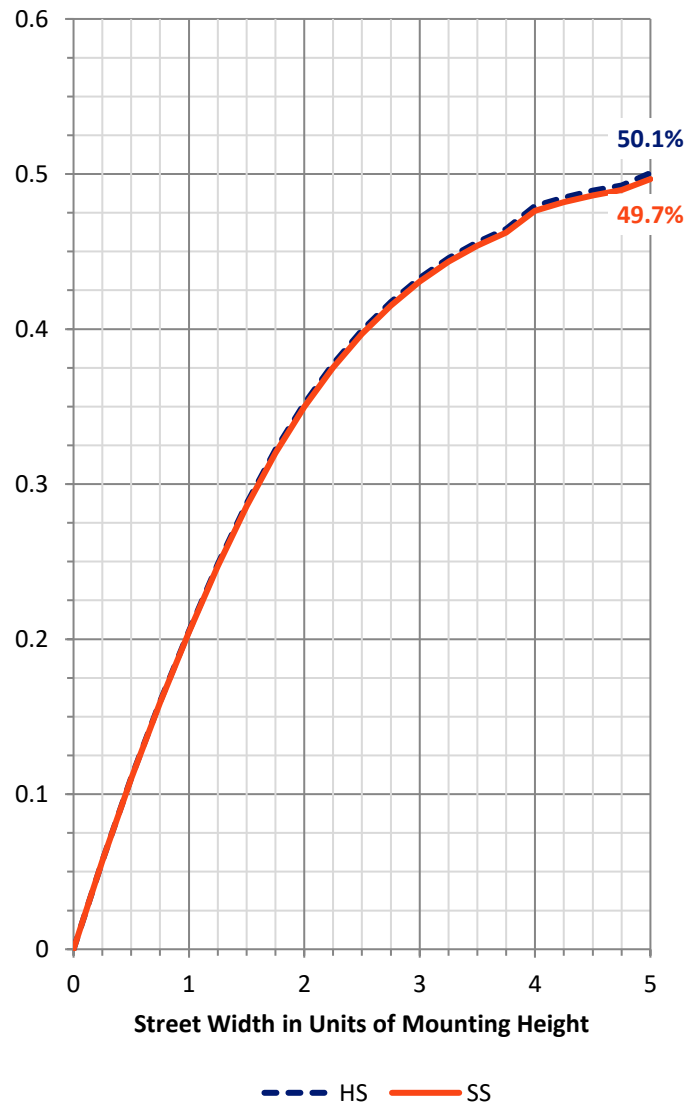
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5427.0	0.0	5427.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5427.0	0.0	5427.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10854.0	0.0	10854.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	0.8
10°-20°	239.1	2.2
20°-30°	406.2	3.7
30°-40°	619.6	5.7
40°-50°	1020.2	9.4
50°-60°	1781.6	16.4
60°-70°	2986.9	27.5
70°-80°	3196.6	29.5
80°-90°	521.4	4.8
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°	10854.0	100.0
0°-180°	10854.0	100.0



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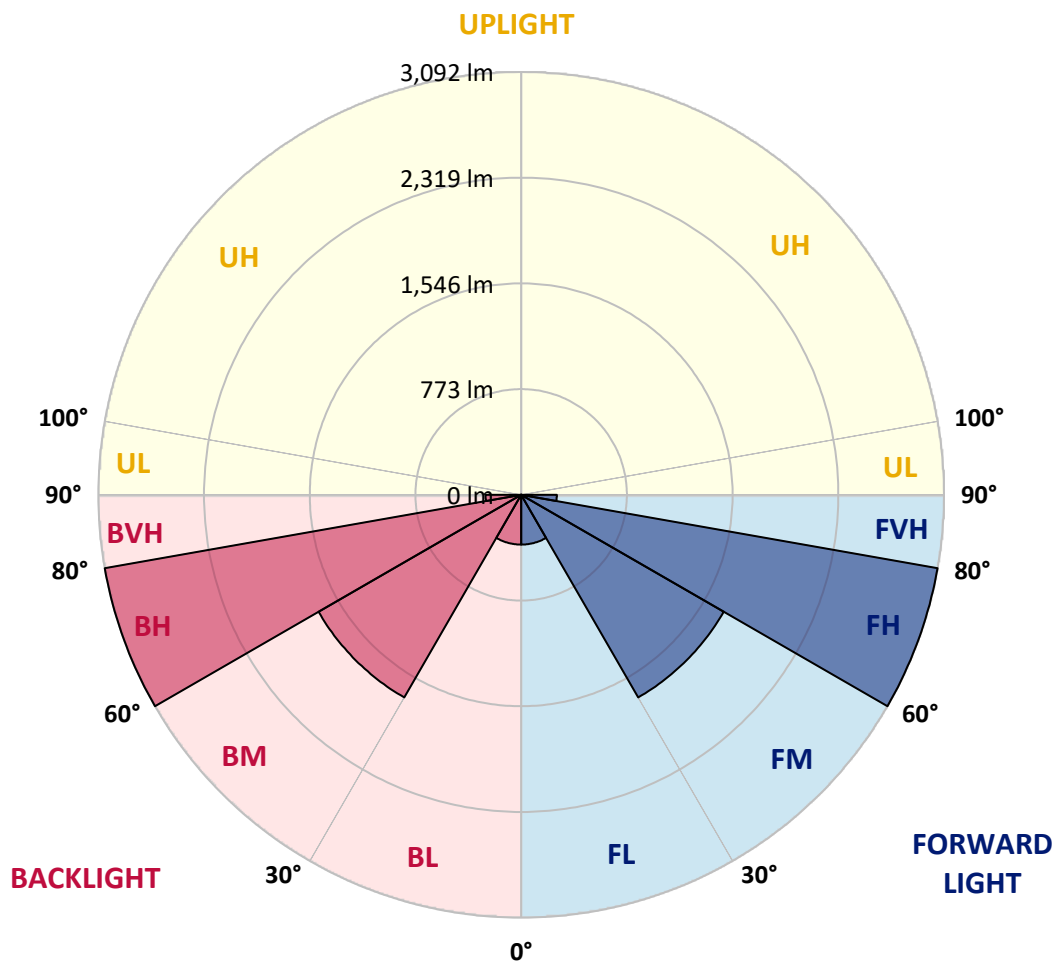
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.8	3.4			
FM (30°-60°)	1710.7	15.8			
FH (60°-80°)	3091.8	28.5			G2/5000
FVH (80°-90°)	260.7	2.4			G3/500
BL (0°-30°)	363.8	3.4	B1/500		
BM (30°-60°)	1710.7	15.8	B2/2500		
BH (60°-80°)	3091.8	28.5	B4/5000		G2/5000
BVH (80°-90°)	260.7	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2	898.2
2.5°	892.6	892.6	892.6	891.3	888.5	887.1	884.3	885.7	885.7	885.7	885.7
5°	881.5	881.5	880.2	878.8	876.0	874.6	871.8	874.6	874.6	874.6	874.6
7.5°	860.8	862.1	862.1	860.8	856.6	855.2	851.1	852.4	852.4	853.8	852.4
10°	849.7	849.7	848.3	841.4	834.4	831.6	830.3	834.4	838.6	842.7	842.7
12.5°	849.7	849.7	846.9	835.8	826.1	826.1	826.1	831.6	840.0	848.3	849.7
15°	853.8	853.8	848.3	835.8	830.3	831.6	831.6	837.2	846.9	858.0	859.4
17.5°	856.6	856.6	849.7	837.2	837.2	841.4	838.6	842.7	852.4	864.9	866.3
20°	860.8	860.8	851.1	841.4	841.4	845.5	845.5	849.7	858.0	870.5	871.8
22.5°	869.1	867.7	858.0	849.7	849.7	852.4	855.2	860.8	867.7	878.8	881.5
25°	878.8	878.8	870.5	869.1	871.8	878.8	877.4	876.0	878.8	888.5	892.6
27.5°	884.3	884.3	878.8	882.9	894.0	899.6	892.6	887.1	887.1	896.8	898.2
30°	902.3	901.0	895.4	898.2	907.9	910.7	906.5	899.6	903.7	914.8	916.2
32.5°	932.8	932.8	924.5	924.5	931.4	942.5	928.7	924.5	930.1	942.5	943.9
35°	980.0	980.0	968.9	963.3	968.9	984.1	963.3	961.9	971.6	985.5	986.9
37.5°	1039.6	1039.6	1032.6	1018.8	1020.2	1029.9	1011.8	1010.5	1028.5	1043.7	1043.7
40°	1114.4	1118.6	1111.6	1095.0	1089.5	1090.8	1077.0	1078.4	1099.2	1117.2	1117.2
42.5°	1207.3	1210.0	1199.0	1186.5	1179.6	1175.4	1161.5	1164.3	1189.3	1212.8	1212.8
45°	1319.5	1320.9	1309.8	1294.6	1286.3	1283.5	1269.7	1276.6	1304.3	1329.3	1327.9
47.5°	1445.7	1447.1	1436.0	1420.7	1415.2	1419.3	1405.5	1405.5	1430.4	1451.2	1448.5
50°	1588.4	1591.2	1578.7	1571.8	1567.7	1578.7	1562.1	1546.9	1563.5	1584.3	1581.5
52.5°	1746.5	1753.4	1745.1	1747.8	1763.1	1777.0	1749.2	1716.0	1724.3	1738.1	1734.0
55°	1937.7	1946.1	1948.8	1958.5	1998.7	2022.3	1976.6	1921.1	1917.0	1918.3	1911.4
57.5°	2152.6	2158.1	2176.1	2198.3	2281.5	2318.9	2246.8	2151.2	2120.7	2102.7	2098.5
60°	2368.8	2378.5	2422.9	2468.6	2596.1	2664.0	2553.2	2392.4	2327.2	2294.0	2287.0
62.5°	2586.4	2605.8	2677.9	2755.5	2941.3	3042.4	2872.0	2639.1	2544.8	2503.3	2492.2
65°	2838.7	2862.3	2949.6	3048.0	3254.5	3397.3	3190.8	2894.1	2793.0	2737.5	2723.6
67.5°	3133.9	3158.9	3229.6	3339.1	3534.5	3674.5	3491.5	3154.7	3023.0	2952.4	2941.3
70°	3376.5	3398.7	3474.9	3585.8	3731.3	3890.7	3716.1	3362.6	3243.4	3193.5	3186.6
72.5°	3339.1	3368.2	3480.4	3646.8	3854.7	4034.9	3814.5	3402.8	3231.0	3161.7	3139.5
75°	2916.3	2948.2	3081.3	3382.0	3761.8	4030.7	3671.7	3135.3	2932.9	2874.7	2863.6
77.5°	1930.8	1961.3	2185.8	2659.9	3285.0	3673.1	3240.7	2626.6	2300.9	2160.9	2152.6
80°	780.4	819.2	1034.0	1537.2	2328.6	2855.3	2403.5	1681.3	1133.8	914.8	870.5
82.5°	181.6	216.2	314.6	566.9	1192.0	1778.3	1296.0	627.9	364.5	259.2	232.9
85°	76.2	77.6	134.4	184.3	372.9	718.0	424.1	228.7	185.7	135.8	133.1
87.5°	29.1	30.5	65.1	77.6	119.2	135.8	144.2	117.8	109.5	67.9	65.1
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)