

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: P397553

Luminaire Tested: **ARCH-S-PA1-100-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397553
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-PA1-100-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12042 lumens
Efficiency: N/A
Efficacy: 125.4 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

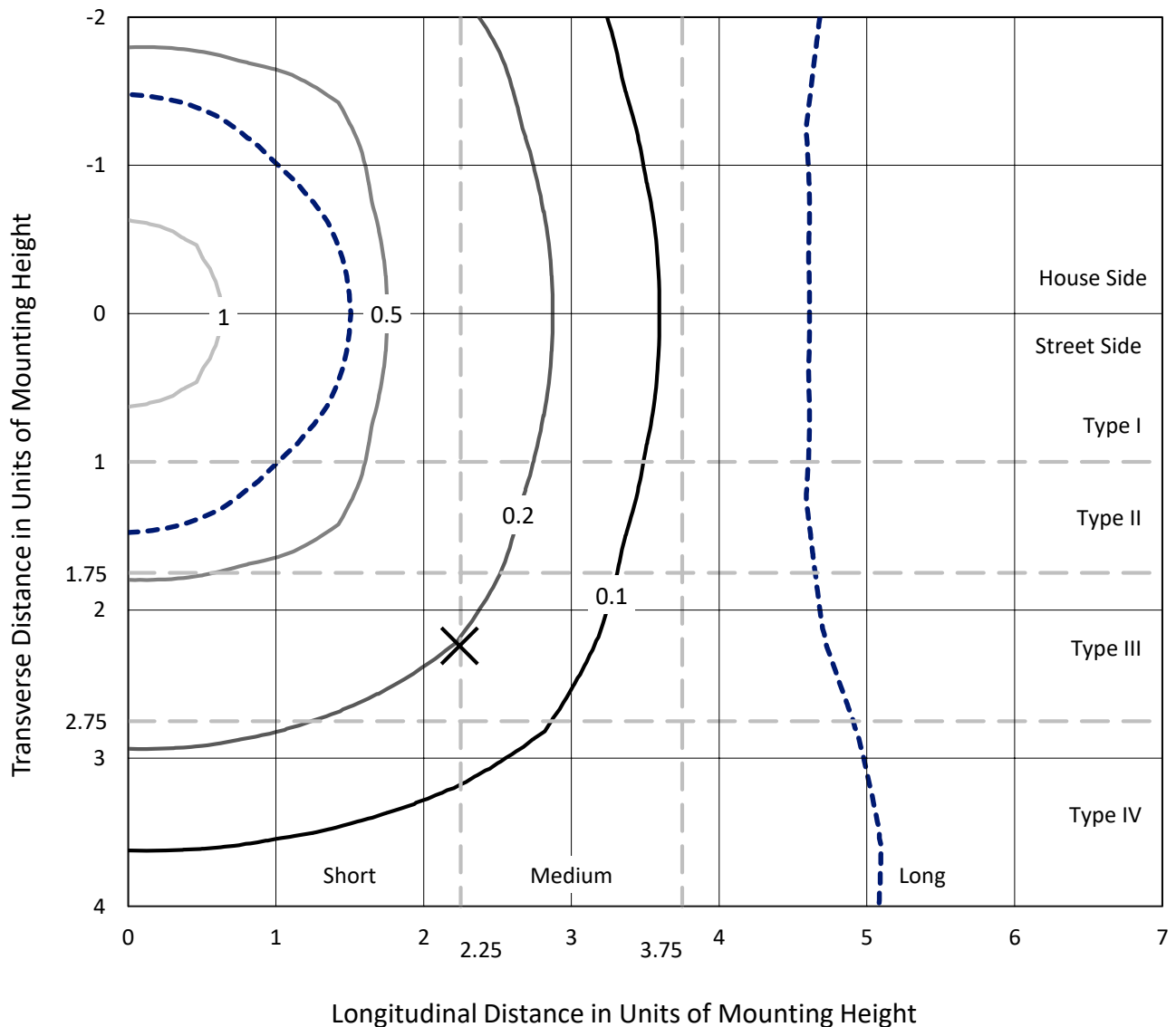
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

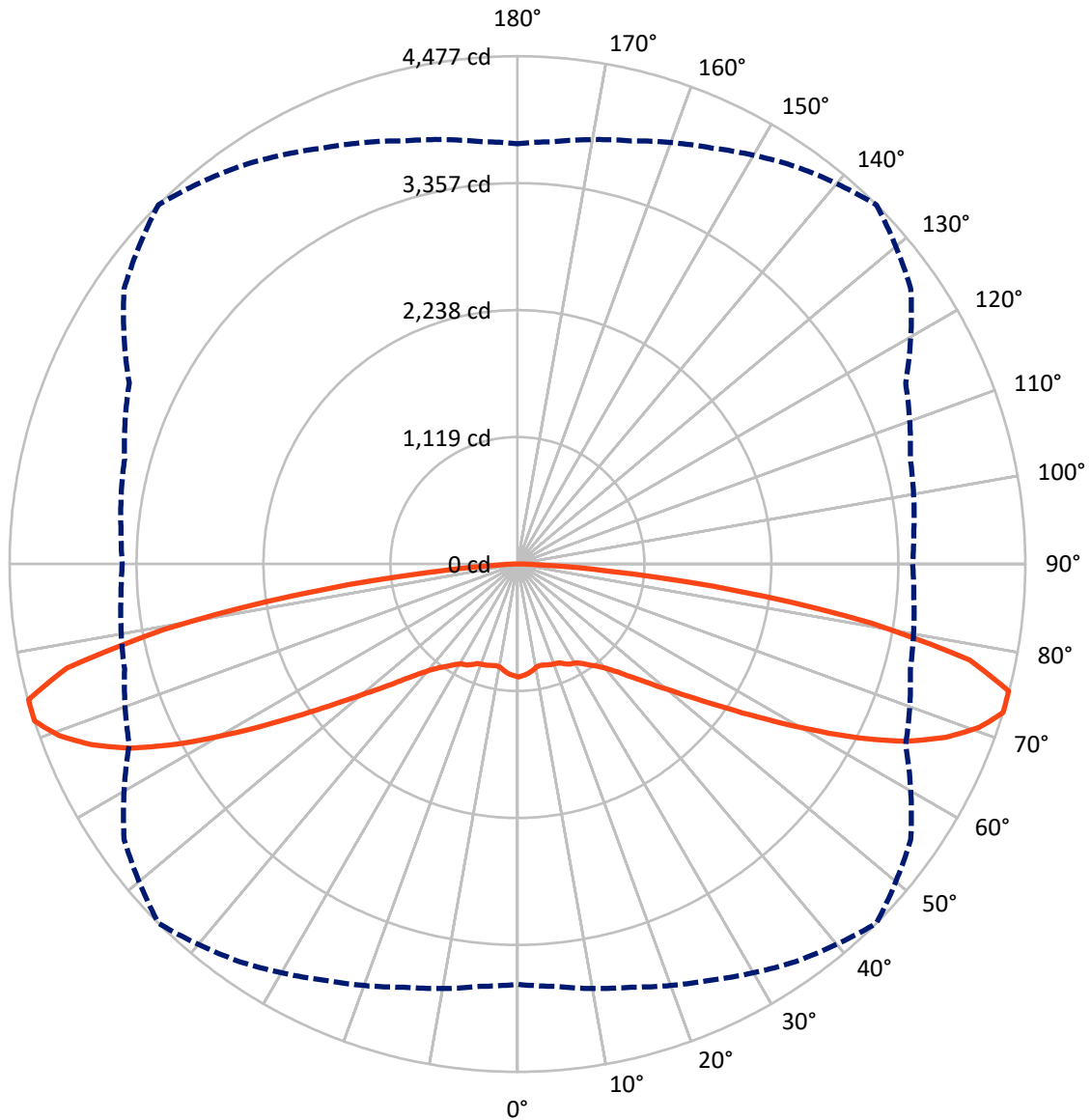
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	6021.0	0.0	6021.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6021.0	0.0	6021.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12042.0	0.0	12042.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	0.8
10°-20°	265.2	2.2
20°-30°	450.7	3.7
30°-40°	687.4	5.7
40°-50°	1131.9	9.4
50°-60°	1976.6	16.4
60°-70°	3313.8	27.5
70°-80°	3546.5	29.5
80°-90°	578.4	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°	12042.0	100.0
0°-180°	12042.0	100.0



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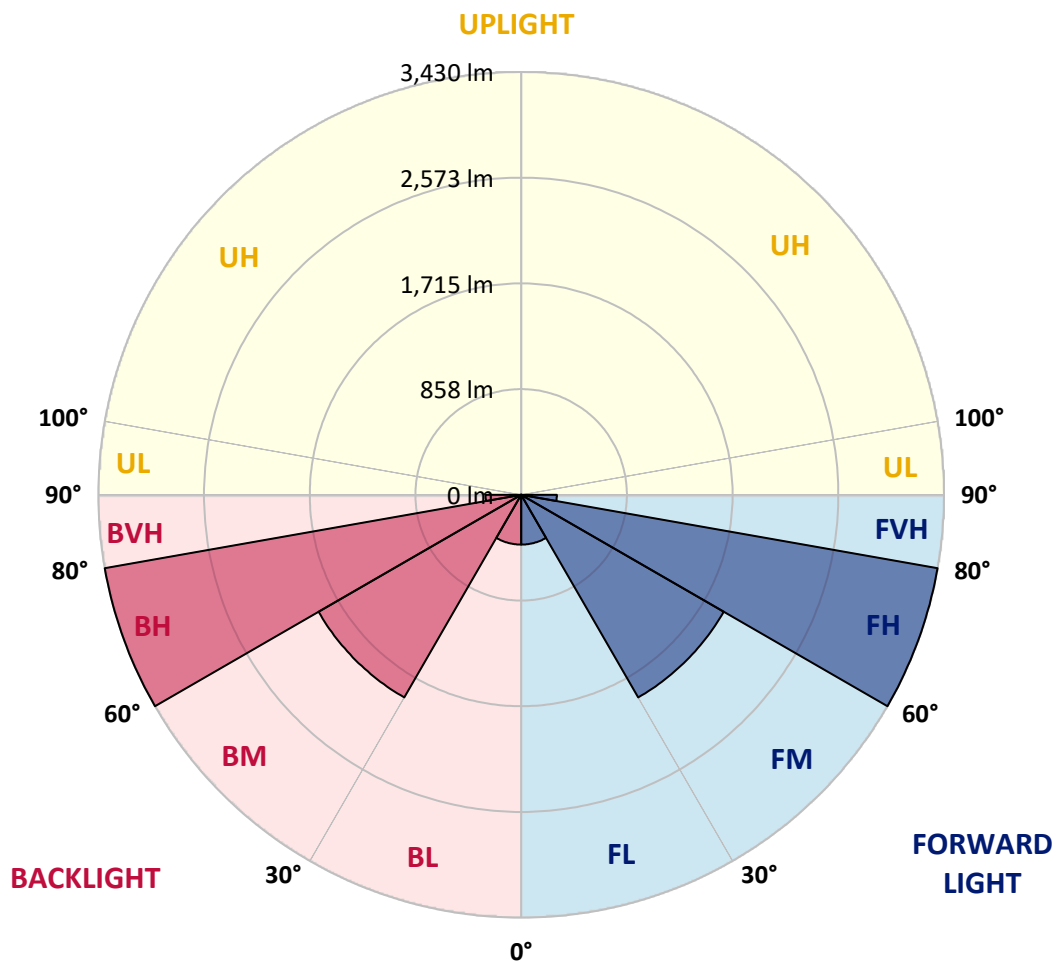
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.6	3.4			
FM (30°-60°)	1898.0	15.8			
FH (60°-80°)	3430.2	28.5			G2/5000
FVH (80°-90°)	289.2	2.4			G3/500
BL (0°-30°)	403.6	3.4	B1/500		
BM (30°-60°)	1898.0	15.8	B2/2500		
BH (60°-80°)	3430.2	28.5	B4/5000		G2/5000
BVH (80°-90°)	289.2	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°	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5	996.5
2.5°	990.3	990.3	990.3	988.8	985.7	984.2	981.1	982.6	982.6	982.6	982.6
5°	978.0	978.0	976.5	975.0	971.9	970.3	967.3	970.3	970.3	970.3	970.3
7.5°	955.0	956.5	956.5	955.0	950.4	948.8	944.2	945.7	945.7	947.3	945.7
10°	942.7	942.7	941.1	933.4	925.8	922.7	921.1	925.8	930.4	935.0	935.0
12.5°	942.7	942.7	939.6	927.3	916.5	916.5	916.5	922.7	931.9	941.1	942.7
15°	947.3	947.3	941.1	927.3	921.1	922.7	922.7	928.8	939.6	951.9	953.4
17.5°	950.4	950.4	942.7	928.8	928.8	933.4	930.4	935.0	945.7	959.6	961.1
20°	955.0	955.0	944.2	933.4	933.4	938.1	938.1	942.7	951.9	965.7	967.3
22.5°	964.2	962.7	951.9	942.7	942.7	945.7	948.8	955.0	962.7	975.0	978.0
25°	975.0	975.0	965.7	964.2	967.3	975.0	973.4	971.9	975.0	985.7	990.3
27.5°	981.1	981.1	975.0	979.6	991.9	998.0	990.3	984.2	984.2	995.0	996.5
30°	1001.1	999.6	993.4	996.5	1007.3	1010.3	1005.7	998.0	1002.6	1014.9	1016.5
32.5°	1034.9	1034.9	1025.7	1025.7	1033.4	1045.7	1030.3	1025.7	1031.9	1045.7	1047.2
35°	1087.2	1087.2	1074.9	1068.8	1074.9	1091.8	1068.8	1067.2	1078.0	1093.4	1094.9
37.5°	1153.3	1153.3	1145.7	1130.3	1131.8	1142.6	1122.6	1121.0	1141.0	1158.0	1158.0
40°	1236.4	1241.0	1233.3	1214.9	1208.7	1210.2	1194.9	1196.4	1219.5	1239.5	1239.5
42.5°	1339.4	1342.5	1330.2	1316.3	1308.7	1304.0	1288.7	1291.7	1319.4	1345.6	1345.6
45°	1464.0	1465.5	1453.2	1436.3	1427.1	1424.0	1408.6	1416.3	1447.1	1474.7	1473.2
47.5°	1603.9	1605.5	1593.2	1576.2	1570.1	1574.7	1559.3	1559.3	1587.0	1610.1	1607.0
50°	1762.3	1765.4	1751.5	1743.9	1739.2	1751.5	1733.1	1716.2	1734.6	1757.7	1754.6
52.5°	1937.6	1945.3	1936.1	1939.2	1956.1	1971.4	1940.7	1903.8	1913.0	1928.4	1923.8
55°	2149.8	2159.1	2162.1	2172.9	2217.5	2243.6	2192.9	2131.4	2126.8	2128.3	2120.6
57.5°	2388.2	2394.3	2414.3	2438.9	2531.2	2572.7	2492.8	2386.7	2352.8	2332.8	2328.2
60°	2628.1	2638.9	2688.1	2738.8	2880.3	2955.6	2832.6	2654.2	2582.0	2545.0	2537.4
62.5°	2869.5	2891.0	2971.0	3057.1	3263.2	3375.5	3186.3	2928.0	2823.4	2777.3	2764.9
65°	3149.4	3175.5	3272.4	3381.6	3610.7	3769.1	3540.0	3210.9	3098.6	3037.1	3021.8
67.5°	3476.9	3504.6	3583.1	3704.5	3921.4	4076.7	3873.7	3500.0	3353.9	3275.5	3263.2
70°	3746.1	3770.7	3855.2	3978.3	4139.7	4316.6	4122.8	3730.7	3598.4	3543.1	3535.4
72.5°	3704.5	3736.8	3861.4	4045.9	4276.6	4476.5	4232.0	3775.3	3584.6	3507.7	3483.1
75°	3235.5	3270.9	3418.5	3752.2	4173.6	4471.9	4073.6	3478.5	3254.0	3189.4	3177.1
77.5°	2142.1	2176.0	2425.1	2951.0	3644.6	4075.1	3595.4	2914.1	2552.7	2397.4	2388.2
80°	865.8	908.8	1147.2	1705.4	2583.5	3167.9	2666.5	1865.3	1257.9	1014.9	965.7
82.5°	201.5	239.9	349.1	629.0	1322.5	1973.0	1437.8	696.6	404.4	287.6	258.3
85°	84.6	86.1	149.2	204.5	413.7	796.6	470.6	253.7	206.1	150.7	147.6
87.5°	32.3	33.8	72.3	86.1	132.3	150.7	159.9	130.7	121.5	75.4	72.3
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)