

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: P397994

Luminaire Tested: **ARCH-S-PA1-70-750-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397994
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-PA1-70-750-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10290 lumens
Efficiency: N/A
Efficacy: 139.1 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): 74
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

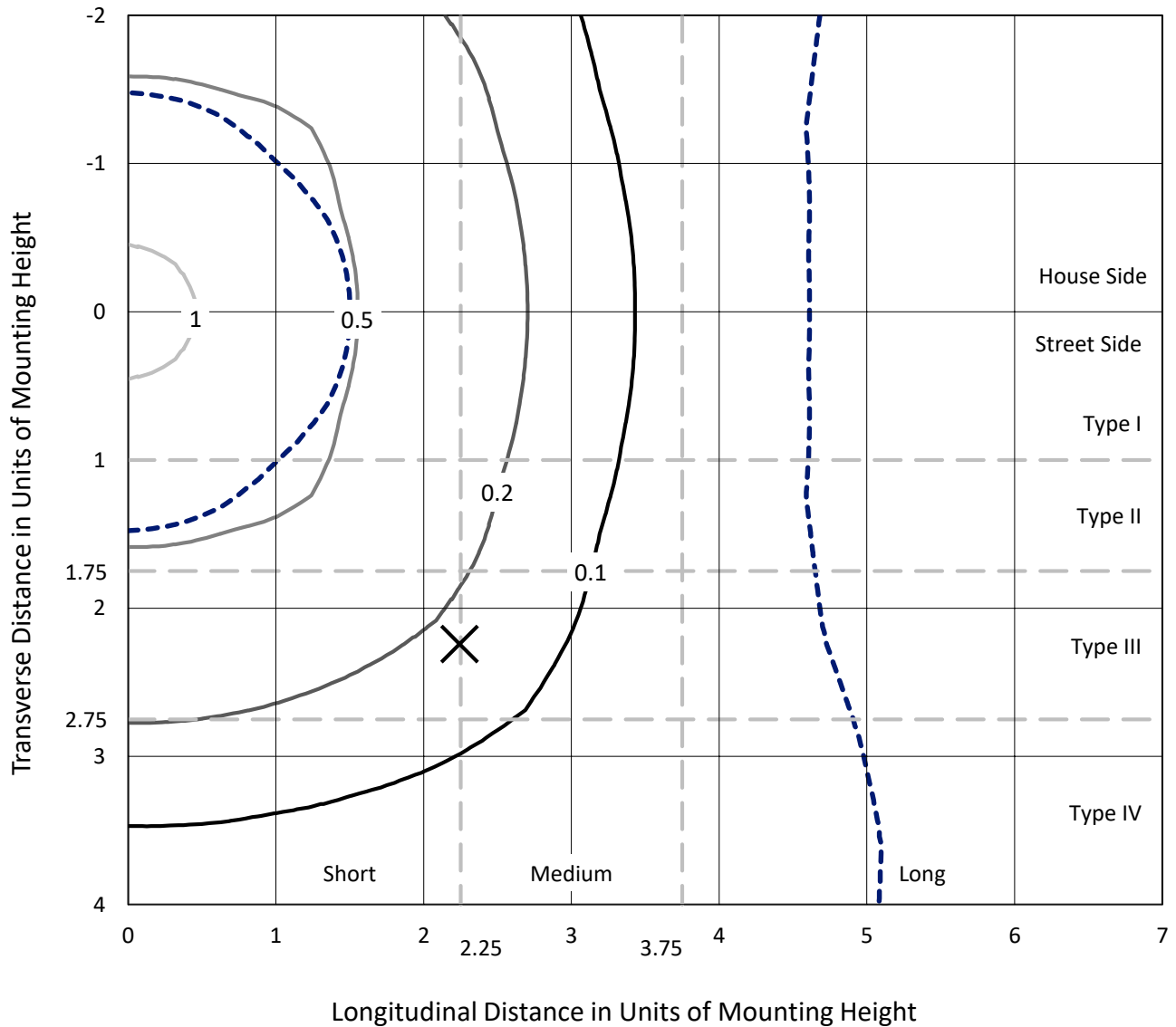


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

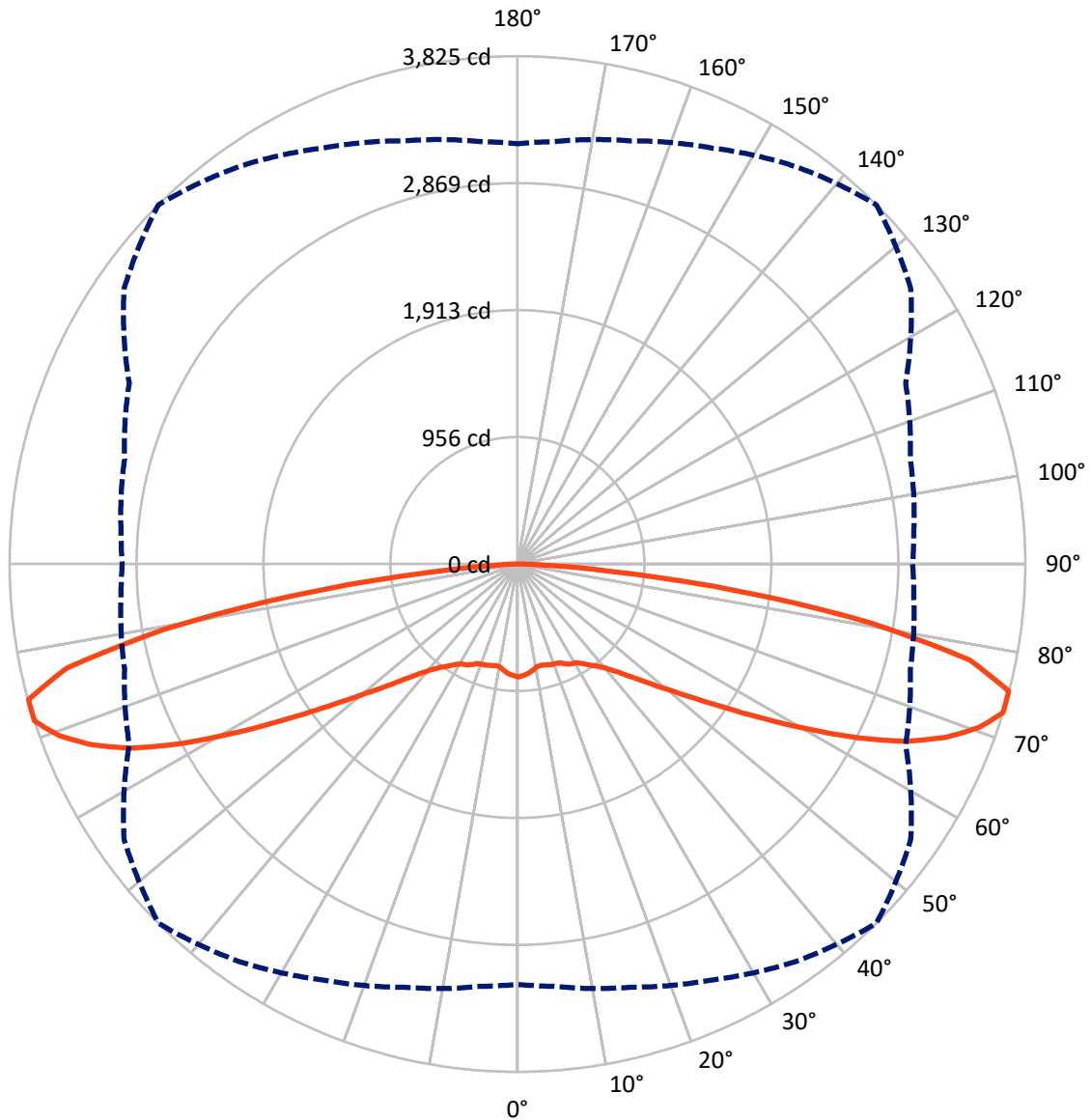


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Non-Cutoff

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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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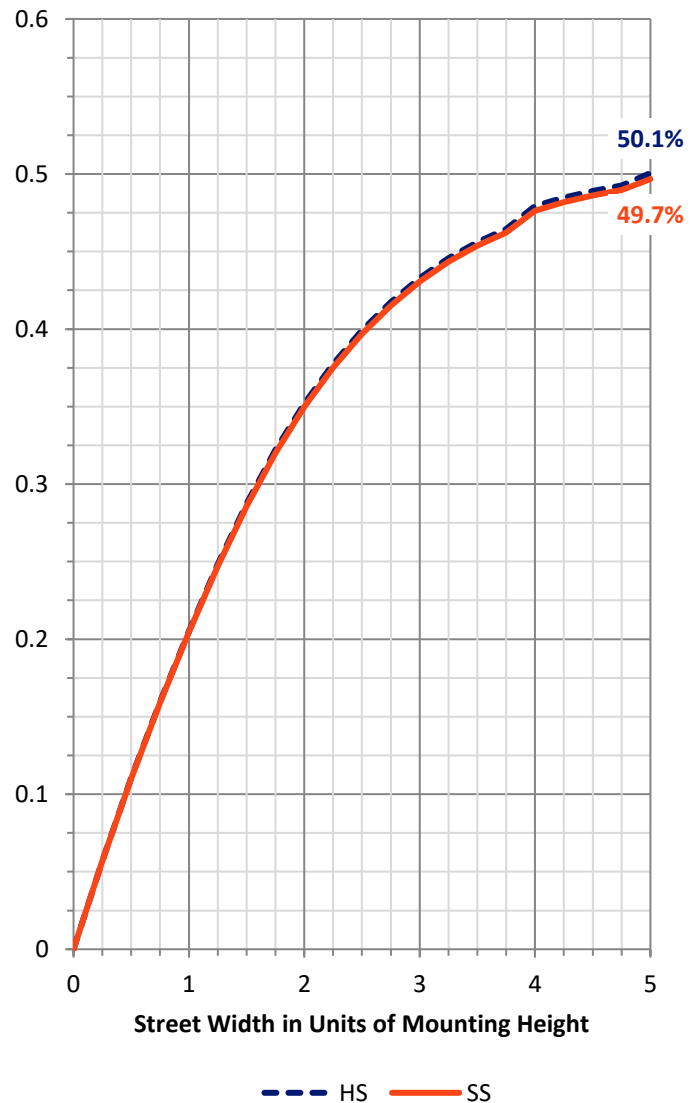
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.0	0.0	5145.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5145.0	0.0	5145.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10290.0	0.0	10290.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	0.8
10°-20°	226.6	2.2
20°-30°	385.1	3.7
30°-40°	587.4	5.7
40°-50°	967.2	9.4
50°-60°	1689.0	16.4
60°-70°	2831.7	27.5
70°-80°	3030.5	29.5
80°-90°	494.3	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°	10290.0	100.0
0°-180°	10290.0	100.0



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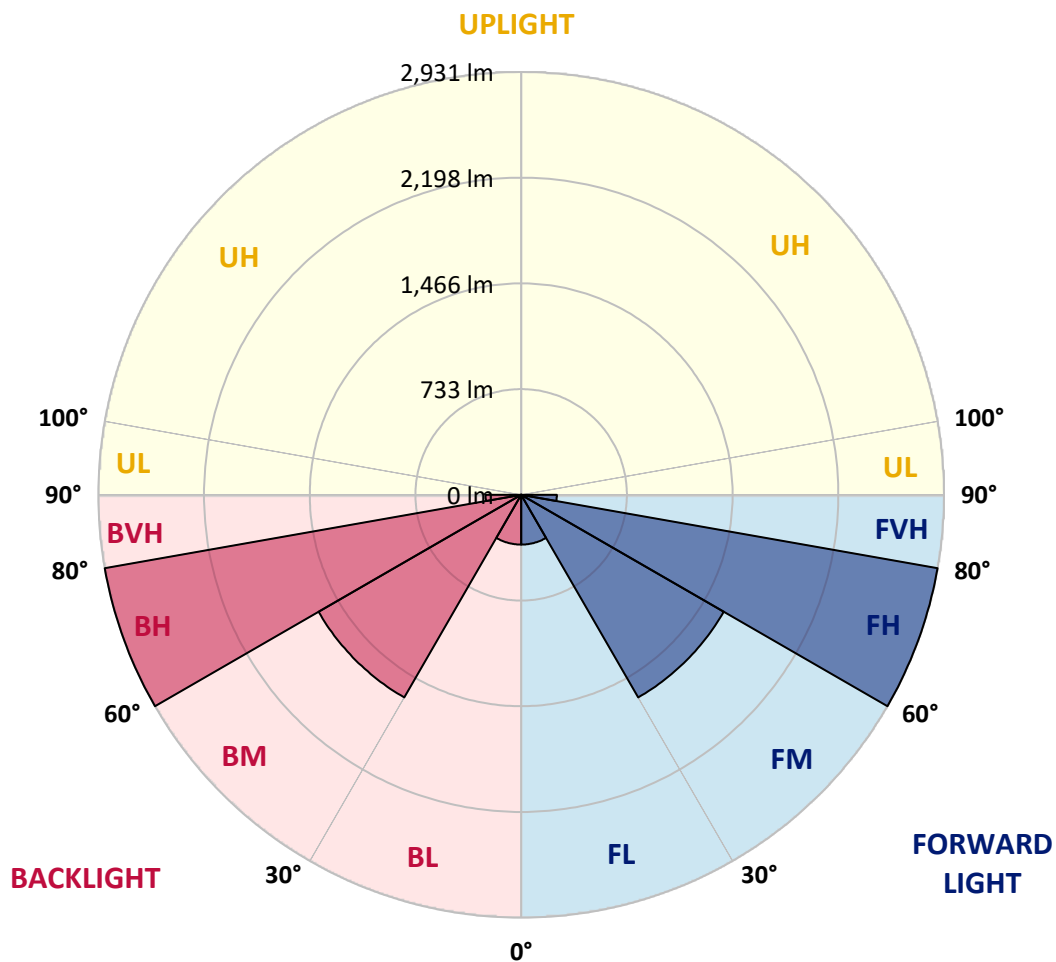
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.9	3.4			
FM	(30°-60°)	1621.8	15.8			
FH	(60°-80°)	2931.1	28.5			G2/5000
FVH	(80°-90°)	247.1	2.4			G3/500
BL	(0°-30°)	344.9	3.4	B1/500		
BM	(30°-60°)	1621.8	15.8	B2/2500		
BH	(60°-80°)	2931.1	28.5	B4/5000		G2/5000
BVH	(80°-90°)	247.1	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°	851.5	851.5	851.5	851.5	851.5	851.5	851.5	851.5	851.5	851.5	851.5
2.5°	846.3	846.3	846.3	844.9	842.3	841.0	838.4	839.7	839.7	839.7	839.7
5°	835.7	835.7	834.4	833.1	830.5	829.2	826.5	829.2	829.2	829.2	829.2
7.5°	816.0	817.3	817.3	816.0	812.1	810.8	806.8	808.1	808.1	809.5	808.1
10°	805.5	805.5	804.2	797.6	791.1	788.4	787.1	791.1	795.0	798.9	798.9
12.5°	805.5	805.5	802.9	792.4	783.2	783.2	783.2	788.4	796.3	804.2	805.5
15°	809.5	809.5	804.2	792.4	787.1	788.4	788.4	793.7	802.9	813.4	814.7
17.5°	812.1	812.1	805.5	793.7	793.7	797.6	795.0	798.9	808.1	820.0	821.3
20°	816.0	816.0	806.8	797.6	797.6	801.6	801.6	805.5	813.4	825.2	826.5
22.5°	823.9	822.6	813.4	805.5	805.5	808.1	810.8	816.0	822.6	833.1	835.7
25°	833.1	833.1	825.2	823.9	826.5	833.1	831.8	830.5	833.1	842.3	846.3
27.5°	838.4	838.4	833.1	837.1	847.6	852.8	846.3	841.0	841.0	850.2	851.5
30°	855.5	854.1	848.9	851.5	860.7	863.3	859.4	852.8	856.8	867.3	868.6
32.5°	884.4	884.4	876.5	876.5	883.0	893.6	880.4	876.5	881.7	893.6	894.9
35°	929.0	929.0	918.5	913.3	918.5	933.0	913.3	912.0	921.2	934.3	935.6
37.5°	985.5	985.5	979.0	965.8	967.1	976.3	959.3	957.9	975.0	989.5	989.5
40°	1056.5	1060.4	1053.9	1038.1	1032.8	1034.2	1021.0	1022.3	1042.0	1059.1	1059.1
42.5°	1144.5	1147.2	1136.7	1124.8	1118.3	1114.3	1101.2	1103.8	1127.5	1149.8	1149.8
45°	1251.0	1252.3	1241.8	1227.3	1219.4	1216.8	1203.7	1210.2	1236.5	1260.2	1258.9
47.5°	1370.6	1371.9	1361.4	1346.9	1341.7	1345.6	1332.5	1332.5	1356.1	1375.8	1373.2
50°	1505.9	1508.5	1496.7	1490.1	1486.2	1496.7	1480.9	1466.5	1482.3	1502.0	1499.3
52.5°	1655.7	1662.3	1654.4	1657.0	1671.5	1684.6	1658.3	1626.8	1634.7	1647.8	1643.9
55°	1837.1	1844.9	1847.6	1856.8	1894.9	1917.2	1873.8	1821.3	1817.3	1818.7	1812.1
57.5°	2040.7	2046.0	2063.1	2084.1	2162.9	2198.4	2130.1	2039.4	2010.5	1993.4	1989.5
60°	2245.7	2254.9	2297.0	2340.3	2461.2	2525.6	2420.5	2268.1	2206.3	2174.8	2168.2
62.5°	2452.0	2470.4	2538.8	2612.3	2788.4	2884.4	2722.7	2502.0	2412.6	2373.2	2362.7
65°	2691.2	2713.5	2796.3	2889.6	3085.4	3220.8	3025.0	2743.8	2647.8	2595.3	2582.1
67.5°	2971.1	2994.7	3061.8	3165.6	3350.8	3483.6	3310.1	2990.8	2866.0	2798.9	2788.4
70°	3201.0	3222.1	3294.3	3399.5	3537.4	3688.6	3523.0	3187.9	3074.9	3027.6	3021.0
72.5°	3165.6	3193.2	3299.6	3457.3	3654.4	3825.2	3616.3	3226.0	3063.1	2997.4	2976.3
75°	2764.8	2795.0	2921.1	3206.3	3566.4	3821.3	3480.9	2972.4	2780.5	2725.4	2714.8
77.5°	1830.5	1859.4	2072.3	2521.7	3114.3	3482.3	3072.3	2490.1	2181.3	2048.6	2040.7
80°	739.8	776.6	980.3	1457.3	2207.6	2707.0	2278.6	1594.0	1074.9	867.3	825.2
82.5°	172.1	205.0	298.3	537.4	1130.1	1685.9	1228.6	595.3	345.6	245.7	220.8
85°	72.3	73.6	127.5	174.8	353.5	680.7	402.1	216.8	176.1	128.8	126.1
87.5°	27.6	28.9	61.8	73.6	113.0	128.8	136.7	111.7	103.8	64.4	61.8
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)