

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: P397940

Luminaire Tested: **ARCH-S-PA1-60-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397940
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-PA1-60-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6785 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 64
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

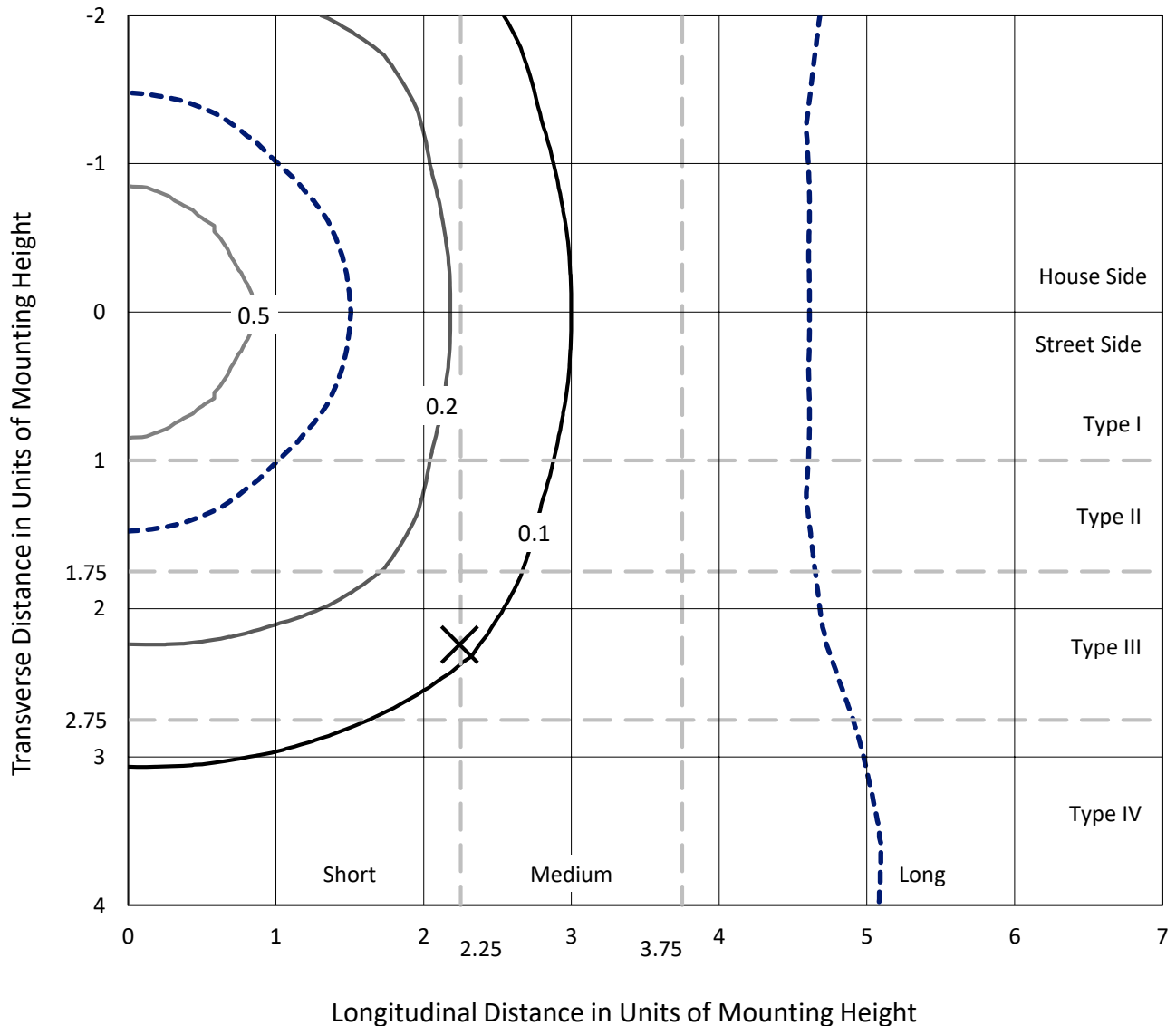




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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

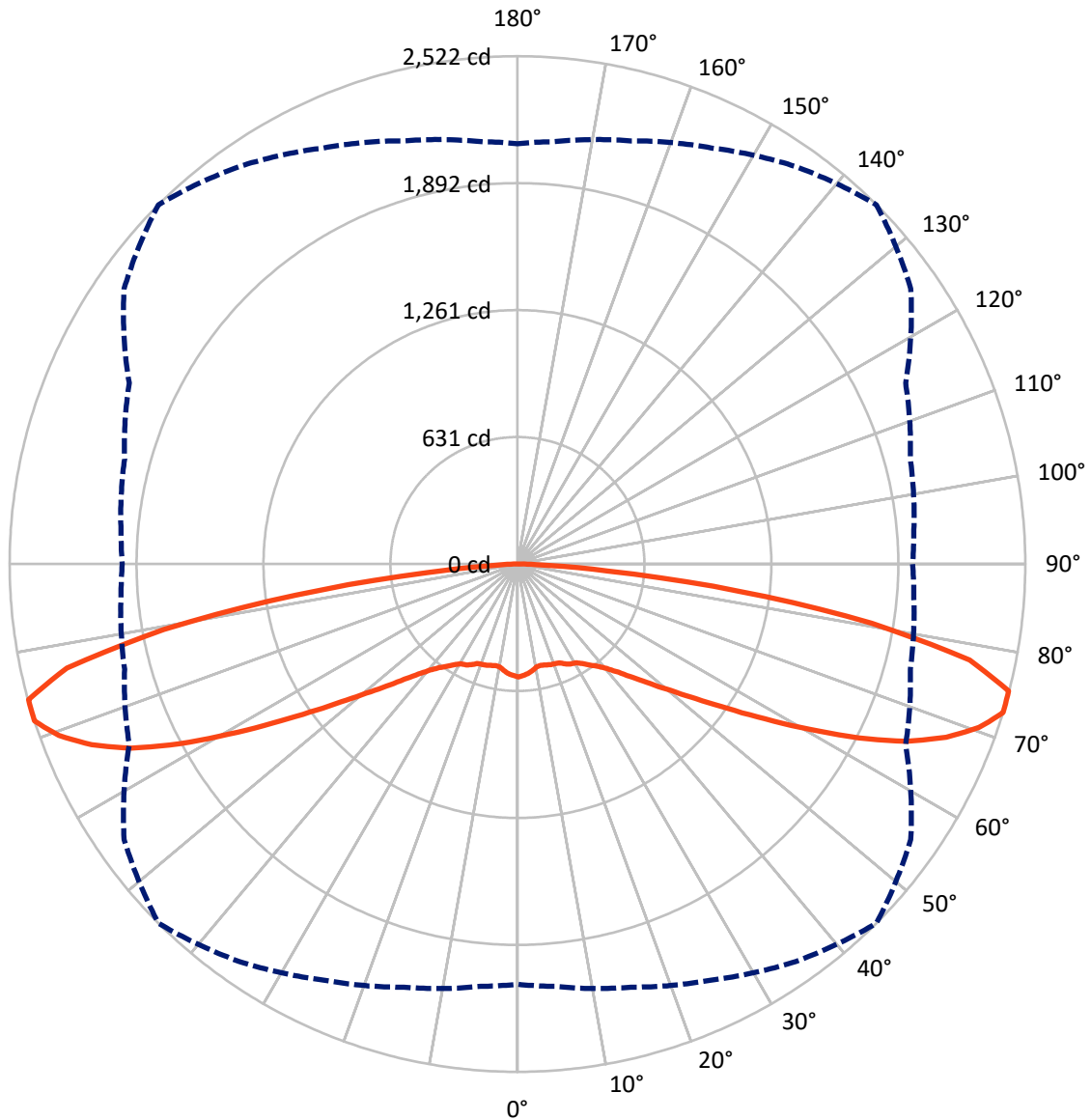


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - Non-Cutoff

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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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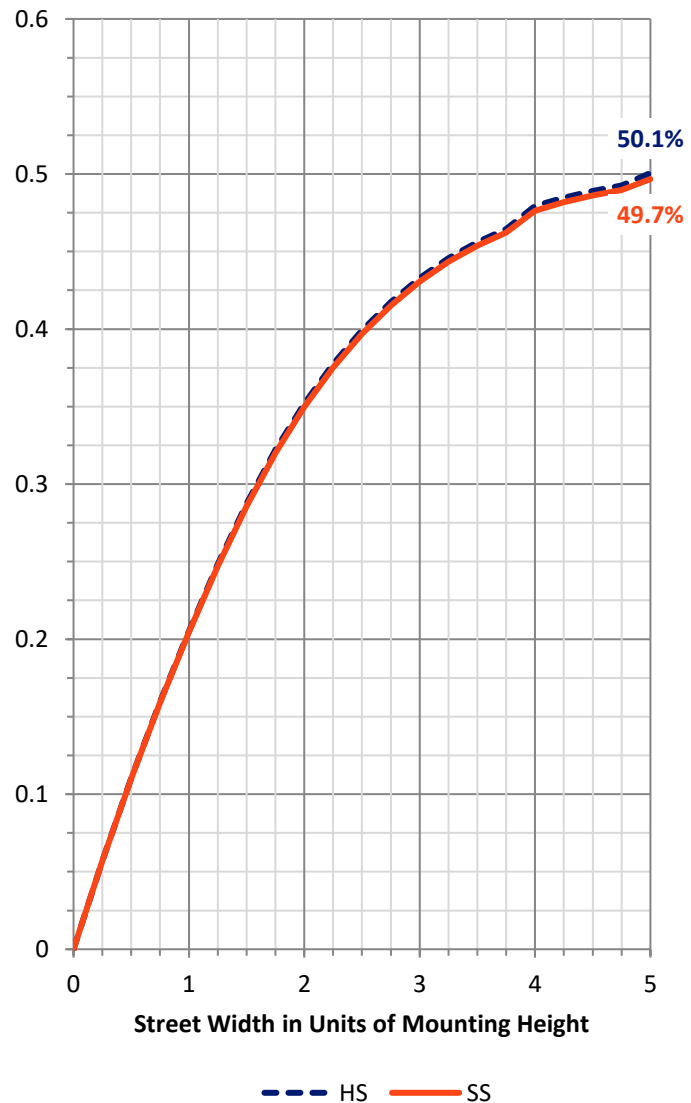
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3392.5	0.0	3392.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3392.5	0.0	3392.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6785.0	0.0	6785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	0.8
10°-20°	149.4	2.2
20°-30°	253.9	3.7
30°-40°	387.3	5.7
40°-50°	637.8	9.4
50°-60°	1113.7	16.4
60°-70°	1867.2	27.5
70°-80°	1998.3	29.5
80°-90°	325.9	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°	6785.0	100.0
0°-180°	6785.0	100.0



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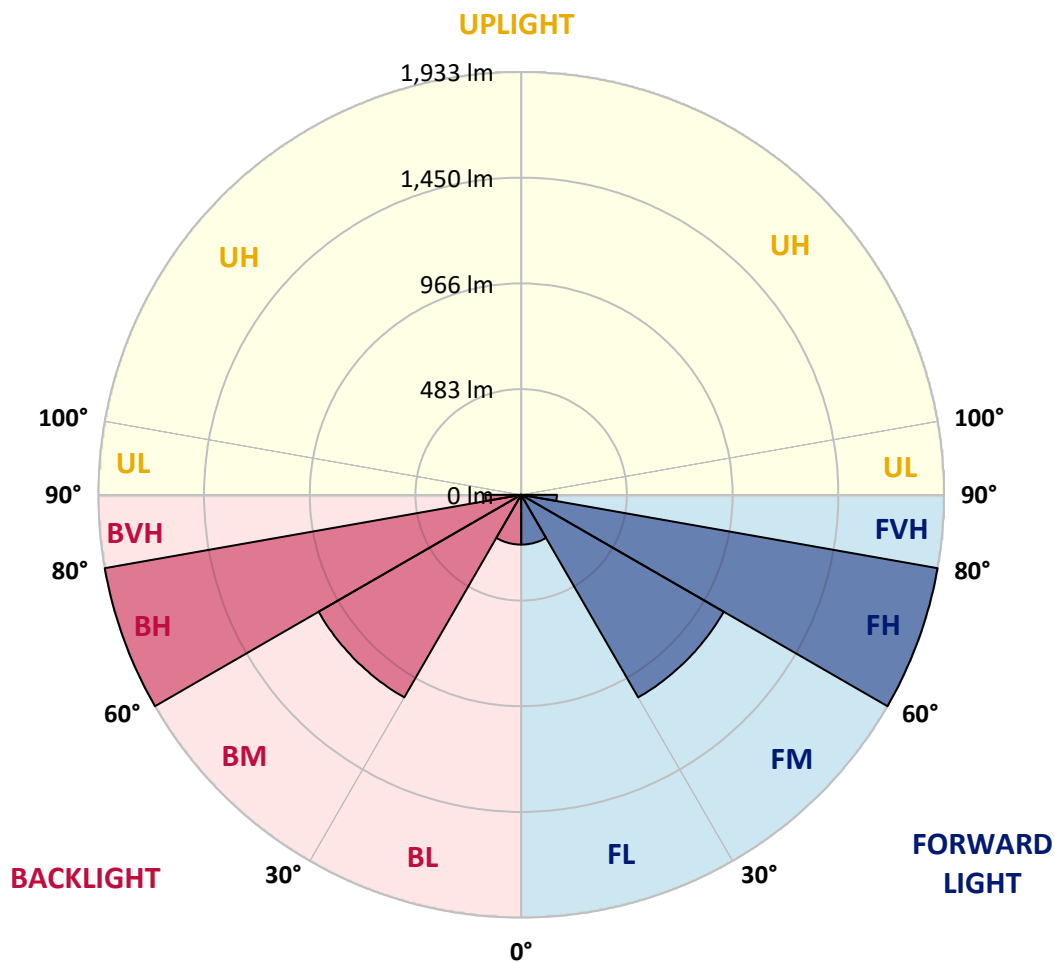
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.4	3.4			
FM (30°-60°)	1069.4	15.8			
FH (60°-80°)	1932.7	28.5			G2/5000
FVH (80°-90°)	163.0	2.4			G2/225
BL (0°-30°)	227.4	3.4	B1/500		
BM (30°-60°)	1069.4	15.8	B2/2500		
BH (60°-80°)	1932.7	28.5	B3/2500		G2/5000
BVH (80°-90°)	163.0	2.4			G2/225
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°	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5
2.5°	558.0	558.0	558.0	557.1	555.4	554.5	552.8	553.7	553.7	553.7	553.7
5°	551.1	551.1	550.2	549.3	547.6	546.7	545.0	546.7	546.7	546.7	546.7
7.5°	538.1	538.9	538.9	538.1	535.5	534.6	532.0	532.9	532.9	533.7	532.9
10°	531.1	531.1	530.3	525.9	521.6	519.9	519.0	521.6	524.2	526.8	526.8
12.5°	531.1	531.1	529.4	522.5	516.4	516.4	516.4	519.9	525.1	530.3	531.1
15°	533.7	533.7	530.3	522.5	519.0	519.9	519.9	523.3	529.4	536.3	537.2
17.5°	535.5	535.5	531.1	523.3	523.3	525.9	524.2	526.8	532.9	540.7	541.5
20°	538.1	538.1	532.0	525.9	525.9	528.5	528.5	531.1	536.3	544.1	545.0
22.5°	543.3	542.4	536.3	531.1	531.1	532.9	534.6	538.1	542.4	549.3	551.1
25°	549.3	549.3	544.1	543.3	545.0	549.3	548.5	547.6	549.3	555.4	558.0
27.5°	552.8	552.8	549.3	551.9	558.9	562.3	558.0	554.5	554.5	560.6	561.5
30°	564.1	563.2	559.7	561.5	567.5	569.3	566.7	562.3	564.9	571.9	572.7
32.5°	583.1	583.1	577.9	577.9	582.3	589.2	580.5	577.9	581.4	589.2	590.1
35°	612.6	612.6	605.7	602.2	605.7	615.2	602.2	601.3	607.4	616.1	616.9
37.5°	649.8	649.8	645.5	636.8	637.7	643.8	632.5	631.6	642.9	652.4	652.4
40°	696.6	699.2	694.9	684.5	681.0	681.9	673.2	674.1	687.1	698.4	698.4
42.5°	754.7	756.4	749.5	741.7	737.4	734.8	726.1	727.8	743.4	758.2	758.2
45°	824.9	825.7	818.8	809.3	804.1	802.3	793.7	798.0	815.3	830.9	830.1
47.5°	903.7	904.6	897.7	888.1	884.7	887.3	878.6	878.6	894.2	907.2	905.5
50°	993.0	994.7	986.9	982.6	980.0	986.9	976.5	967.0	977.4	990.4	988.6
52.5°	1091.7	1096.1	1090.9	1092.6	1102.1	1110.8	1093.5	1072.7	1077.9	1086.5	1083.9
55°	1211.3	1216.5	1218.2	1224.3	1249.4	1264.2	1235.6	1200.9	1198.3	1199.2	1194.8
57.5°	1345.6	1349.1	1360.3	1374.2	1426.2	1449.6	1404.5	1344.7	1325.7	1314.4	1311.8
60°	1480.8	1486.8	1514.6	1543.2	1622.9	1665.3	1596.0	1495.5	1454.8	1434.0	1429.7
62.5°	1616.8	1628.9	1674.0	1722.5	1838.6	1901.9	1795.3	1649.7	1590.8	1564.8	1557.9
65°	1774.5	1789.2	1843.8	1905.3	2034.4	2123.7	1994.6	1809.2	1745.9	1711.3	1702.6
67.5°	1959.1	1974.7	2018.9	2087.3	2209.5	2297.0	2182.6	1972.1	1889.7	1845.6	1838.6
70°	2110.7	2124.6	2172.2	2241.5	2332.5	2432.2	2323.0	2102.0	2027.5	1996.3	1992.0
72.5°	2087.3	2105.5	2175.7	2279.7	2409.6	2522.3	2384.5	2127.2	2019.7	1976.4	1962.5
75°	1823.0	1843.0	1926.1	2114.2	2351.6	2519.7	2295.3	1959.9	1833.4	1797.0	1790.1
77.5°	1207.0	1226.0	1366.4	1662.7	2053.5	2296.1	2025.8	1641.9	1438.3	1350.8	1345.6
80°	487.8	512.1	646.4	960.9	1455.7	1784.9	1502.4	1051.0	708.8	571.9	544.1
82.5°	113.5	135.2	196.7	354.4	745.2	1111.7	810.1	392.5	227.9	162.0	145.6
85°	47.7	48.5	84.0	115.2	233.1	448.8	265.1	143.0	116.1	84.9	83.2
87.5°	18.2	19.1	40.7	48.5	74.5	84.9	90.1	73.6	68.5	42.5	40.7
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)