

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: P397877

Luminaire Tested: **ARCH-S-PA1-50-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397877  
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-PA1-50-830-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6389 lumens  
Efficiency: N/A  
Efficacy: 118.3 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): 54  
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

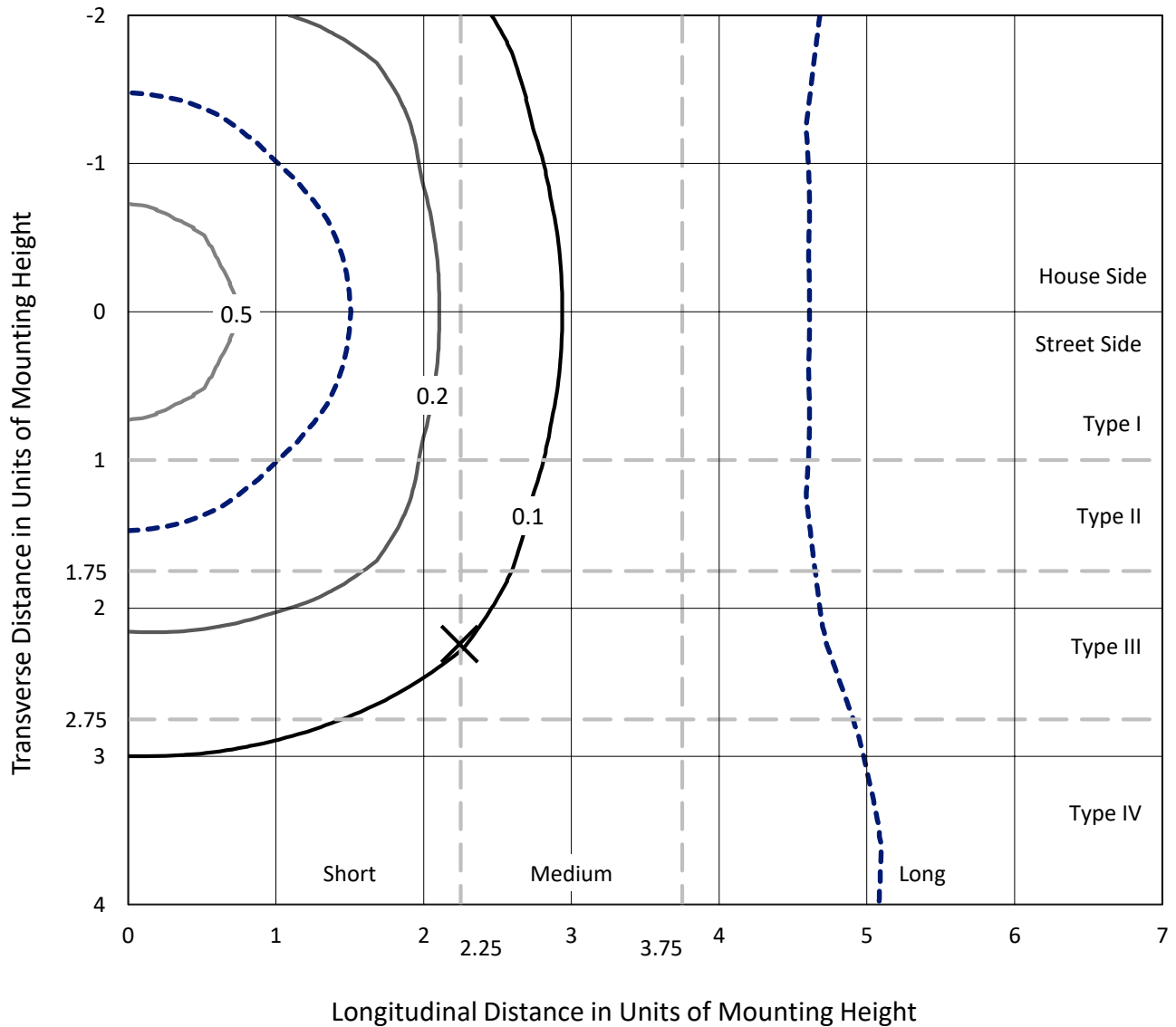


REPORT NUMBER: P397877

CATALOG NUMBER: ARCH-S-PA1-50-830-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

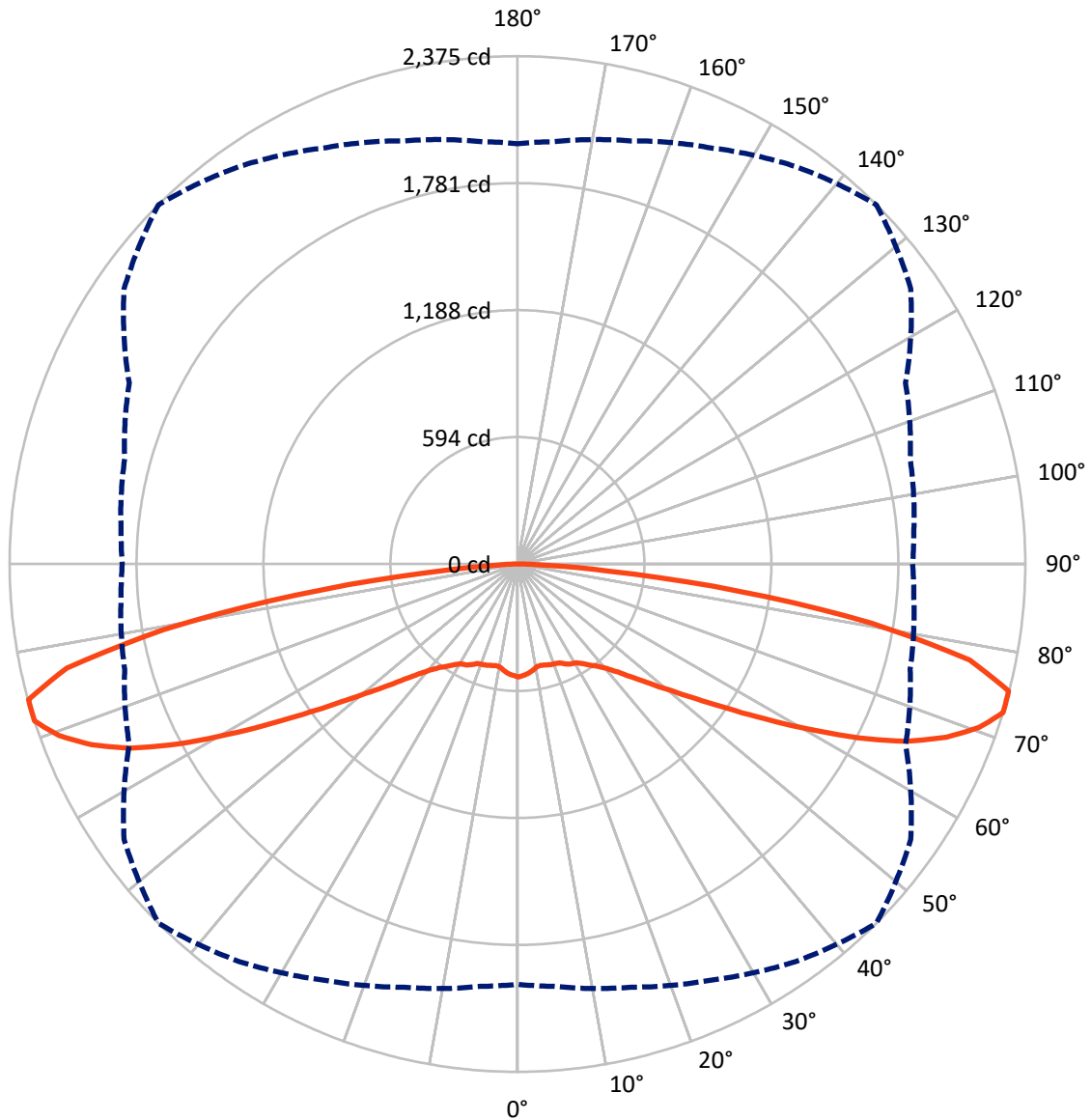


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P397877

CATALOG NUMBER: ARCH-S-PA1-50-830-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P397877

CATALOG NUMBER: ARCH-S-PA1-50-830-U-5WQ

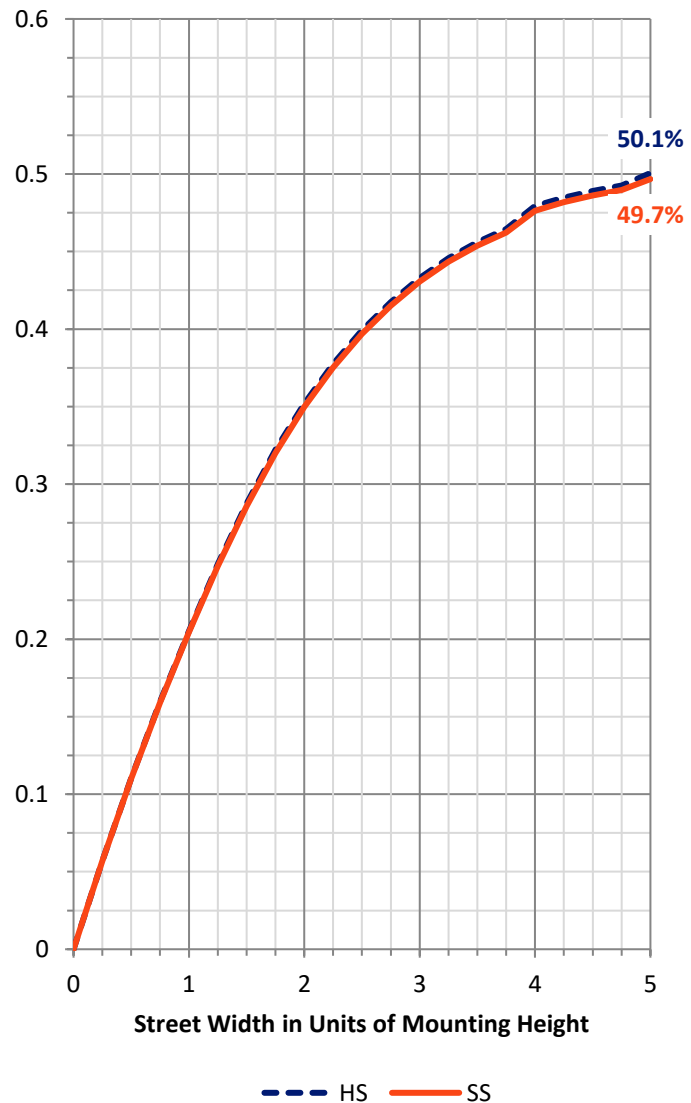
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3194.5	0.0	3194.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3194.5	0.0	3194.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6389.0	0.0	6389.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	0.8
10°-20°	140.7	2.2
20°-30°	239.1	3.7
30°-40°	364.7	5.7
40°-50°	600.5	9.4
50°-60°	1048.7	16.4
60°-70°	1758.2	27.5
70°-80°	1881.6	29.5
80°-90°	306.9	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°	6389.0	100.0
0°-180°	6389.0	100.0



REPORT NUMBER: P397877

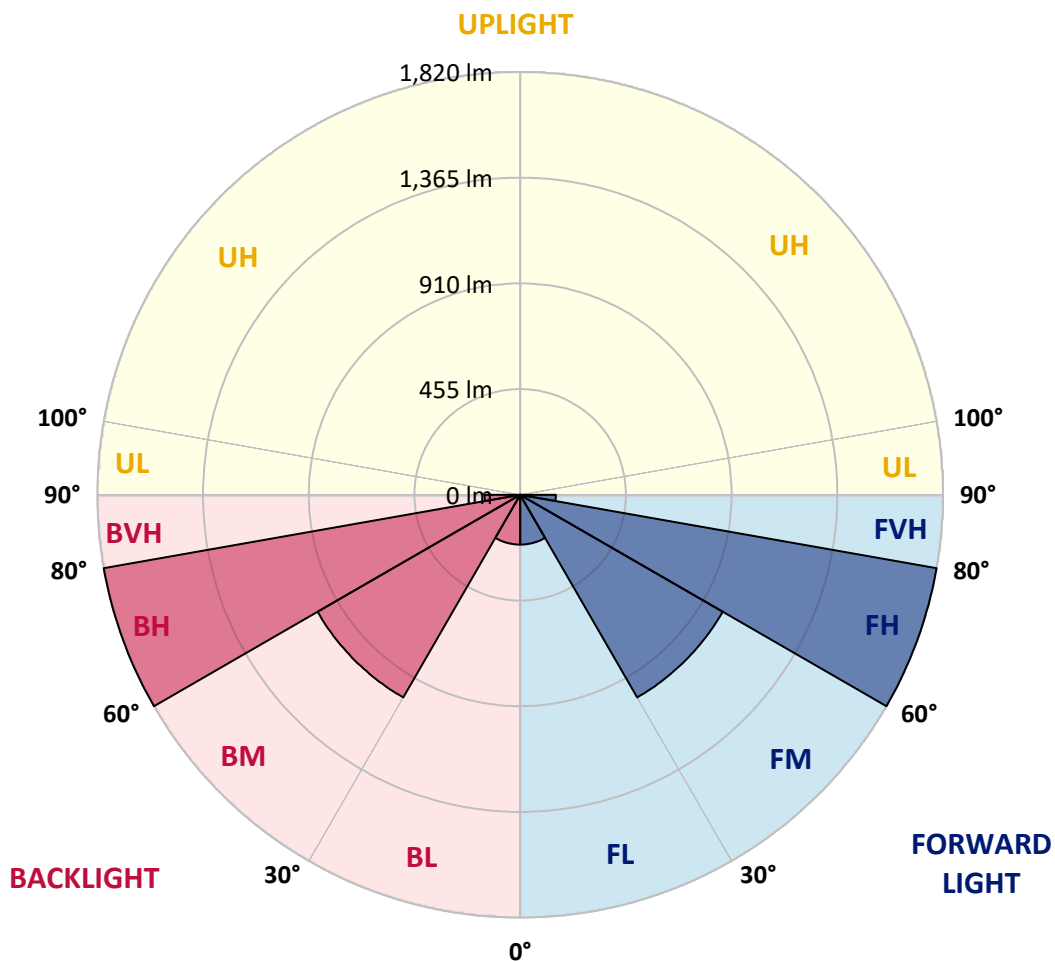
CATALOG NUMBER: ARCH-S-PA1-50-830-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.2	3.4			
FM (30°-60°)	1007.0	15.8			
FH (60°-80°)	1819.9	28.5			G2/5000
FVH (80°-90°)	153.5	2.4			G2/225
BL (0°-30°)	214.2	3.4	B1/500		
BM (30°-60°)	1007.0	15.8	B2/2500		
BH (60°-80°)	1819.9	28.5	B3/2500		G2/5000
BVH (80°-90°)	153.5	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





REPORT NUMBER: P397877

CATALOG NUMBER: ARCH-S-PA1-50-830-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7
2.5°	525.4	525.4	525.4	524.6	523.0	522.2	520.5	521.4	521.4	521.4	521.4
5°	518.9	518.9	518.1	517.3	515.6	514.8	513.2	514.8	514.8	514.8	514.8
7.5°	506.7	507.5	507.5	506.7	504.2	503.4	501.0	501.8	501.8	502.6	501.8
10°	500.1	500.1	499.3	495.2	491.2	489.5	488.7	491.2	493.6	496.1	496.1
12.5°	500.1	500.1	498.5	492.0	486.3	486.3	486.3	489.5	494.4	499.3	500.1
15°	502.6	502.6	499.3	492.0	488.7	489.5	489.5	492.8	498.5	505.0	505.9
17.5°	504.2	504.2	500.1	492.8	492.8	495.2	493.6	496.1	501.8	509.1	509.9
20°	506.7	506.7	501.0	495.2	495.2	497.7	497.7	500.1	505.0	512.4	513.2
22.5°	511.6	510.7	505.0	500.1	500.1	501.8	503.4	506.7	510.7	517.3	518.9
25°	517.3	517.3	512.4	511.6	513.2	517.3	516.5	515.6	517.3	523.0	525.4
27.5°	520.5	520.5	517.3	519.7	526.2	529.5	525.4	522.2	522.2	527.9	528.7
30°	531.1	530.3	527.1	528.7	534.4	536.0	533.6	529.5	532.0	538.5	539.3
32.5°	549.1	549.1	544.2	544.2	548.3	554.8	546.6	544.2	547.5	554.8	555.6
35°	576.8	576.8	570.3	567.0	570.3	579.3	567.0	566.2	571.9	580.1	580.9
37.5°	611.9	611.9	607.8	599.7	600.5	606.2	595.6	594.8	605.4	614.4	614.4
40°	656.0	658.4	654.3	644.6	641.3	642.1	633.9	634.8	647.0	657.6	657.6
42.5°	710.6	712.3	705.7	698.4	694.3	691.9	683.7	685.3	700.0	713.9	713.9
45°	776.7	777.5	771.0	762.0	757.1	755.5	747.4	751.4	767.8	782.4	781.6
47.5°	851.0	851.8	845.3	836.3	833.0	835.5	827.3	827.3	842.0	854.2	852.6
50°	935.0	936.6	929.3	925.2	922.8	929.3	919.5	910.5	920.3	932.6	930.9
52.5°	1028.0	1032.1	1027.2	1028.8	1037.8	1046.0	1029.7	1010.1	1015.0	1023.1	1020.7
55°	1140.6	1145.5	1147.1	1152.9	1176.5	1190.4	1163.5	1130.8	1128.4	1129.2	1125.1
57.5°	1267.1	1270.3	1280.9	1294.0	1343.0	1365.0	1322.6	1266.3	1248.3	1237.7	1235.3
60°	1394.4	1400.1	1426.2	1453.1	1528.2	1568.1	1502.9	1408.2	1369.9	1350.3	1346.2
62.5°	1522.5	1533.9	1576.3	1622.0	1731.3	1790.9	1690.5	1553.5	1498.0	1473.5	1467.0
65°	1670.9	1684.8	1736.2	1794.1	1915.7	1999.7	1878.2	1703.6	1644.0	1611.4	1603.2
67.5°	1844.7	1859.4	1901.0	1965.5	2080.5	2162.9	2055.2	1857.0	1779.5	1737.8	1731.3
70°	1987.5	2000.6	2045.4	2110.7	2196.4	2290.2	2187.4	1979.3	1909.2	1879.8	1875.7
72.5°	1965.5	1982.6	2048.7	2146.6	2269.0	2375.1	2245.3	2003.0	1901.8	1861.0	1848.0
75°	1716.6	1735.4	1813.7	1990.8	2214.3	2372.6	2161.3	1845.5	1726.4	1692.2	1685.6
77.5°	1136.5	1154.5	1286.7	1565.7	1933.7	2162.1	1907.6	1546.1	1354.4	1272.0	1267.1
80°	459.3	482.2	608.7	904.8	1370.7	1680.7	1414.8	989.7	667.4	538.5	512.4
82.5°	106.9	127.3	185.2	333.7	701.7	1046.8	762.9	369.6	214.6	152.6	137.1
85°	44.9	45.7	79.1	108.5	219.5	422.6	249.7	134.6	109.3	80.0	78.3
87.5°	17.1	17.9	38.3	45.7	70.2	80.0	84.9	69.4	64.5	40.0	38.3
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)