

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: P397679

Luminaire Tested: **ARCH-S-PA1-30-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397679  
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-PA1-30-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4041 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

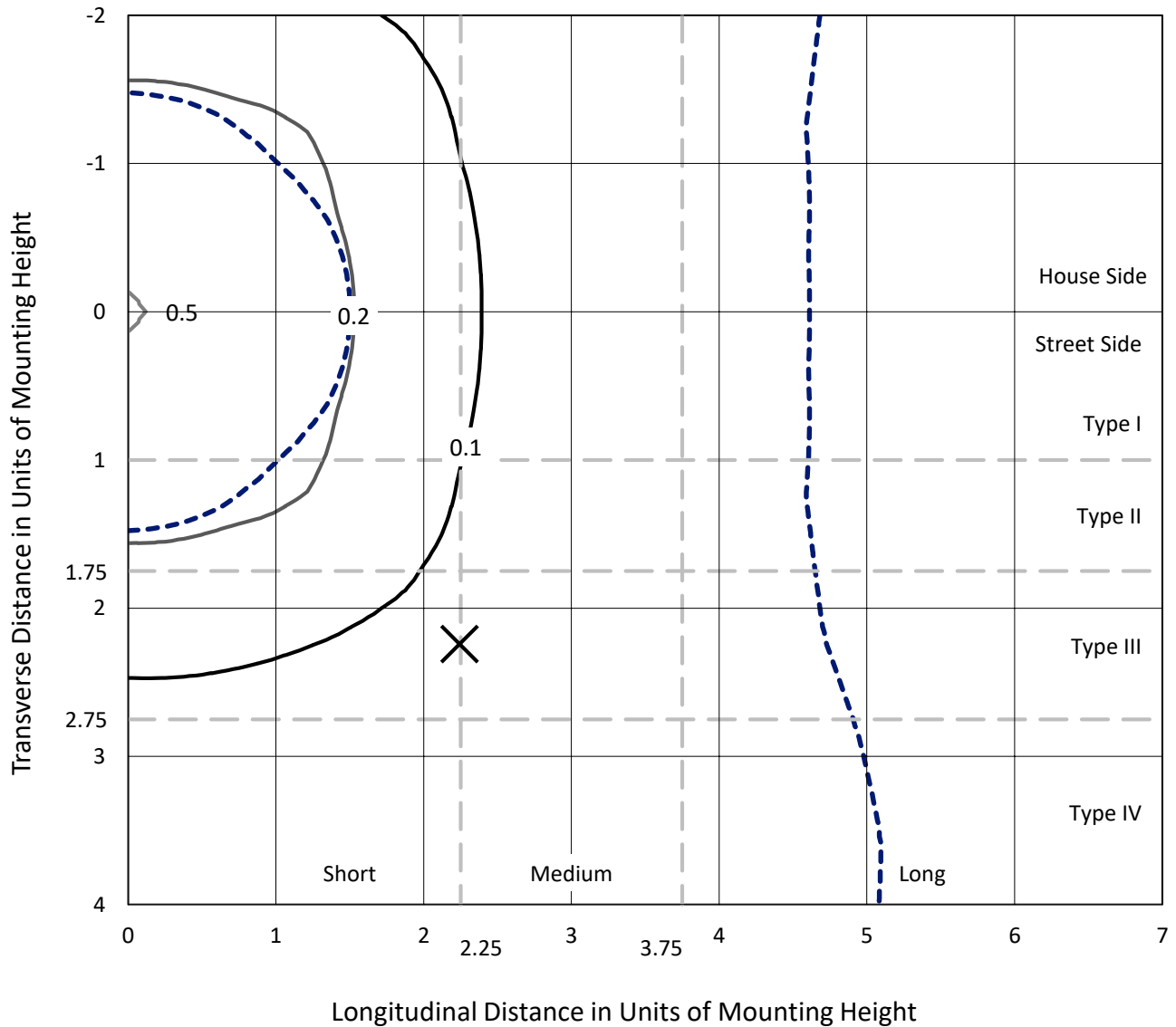


REPORT NUMBER: P397679

CATALOG NUMBER: ARCH-S-PA1-30-727-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

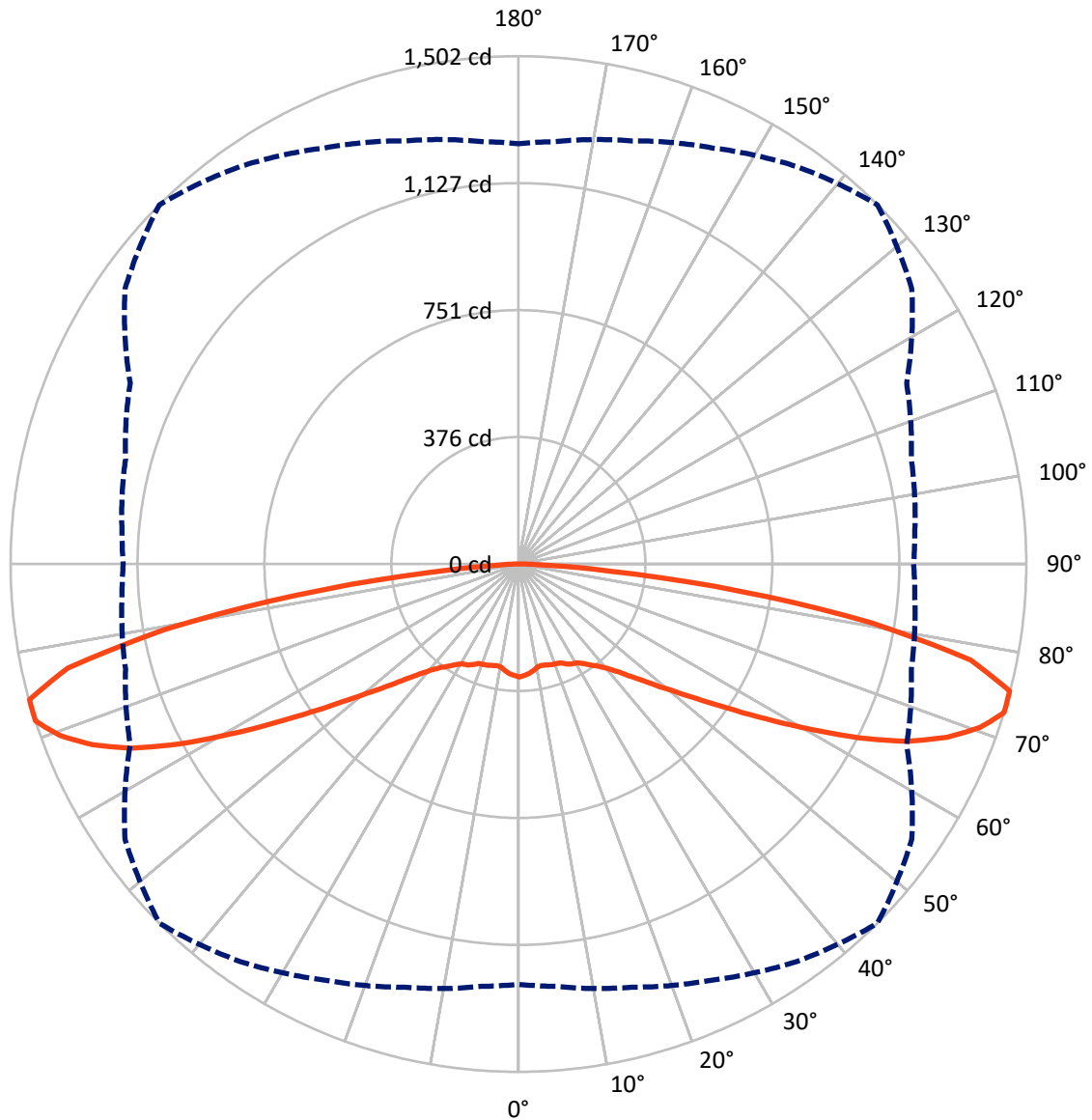


Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P397679

CATALOG NUMBER: ARCH-S-PA1-30-727-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P397679

CATALOG NUMBER: ARCH-S-PA1-30-727-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2020.5	0.0	2020.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2020.5	0.0	2020.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4041.0	0.0	4041.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.7	0.8
10°-20°	89.0	2.2
20°-30°	151.2	3.7
30°-40°	230.7	5.7
40°-50°	379.8	9.4
50°-60°	663.3	16.4
60°-70°	1112.0	27.5
70°-80°	1190.1	29.5
80°-90°	194.1	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°	4041.0	100.0
0°-180°	4041.0	100.0



REPORT NUMBER: P397679

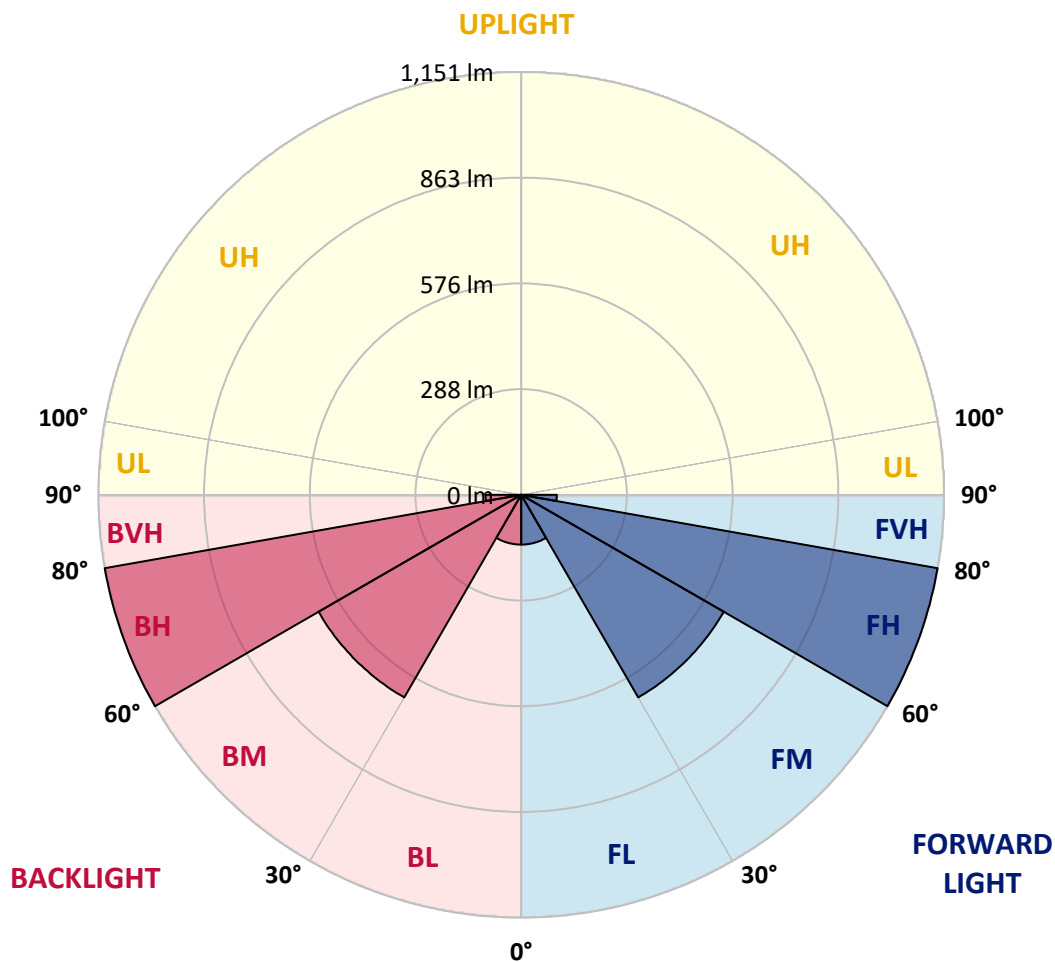
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	135.5	3.4			
FM (30°-60°)	636.9	15.8			
FH (60°-80°)	1151.1	28.5			G1/1800
FVH (80°-90°)	97.1	2.4			G1/100
BL (0°-30°)	135.5	3.4	B1/500		
BM (30°-60°)	636.9	15.8	B1/1000		
BH (60°-80°)	1151.1	28.5	B3/2500		G1/1800
BVH (80°-90°)	97.1	2.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P397679

CATALOG NUMBER: ARCH-S-PA1-30-727-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	332.3	332.3	332.3	331.8	330.8	330.3	329.2	329.8	329.8	329.8	329.8
5°	328.2	328.2	327.7	327.2	326.1	325.6	324.6	325.6	325.6	325.6	325.6
7.5°	320.5	321.0	321.0	320.5	318.9	318.4	316.9	317.4	317.4	317.9	317.4
10°	316.3	316.3	315.8	313.2	310.7	309.6	309.1	310.7	312.2	313.8	313.8
12.5°	316.3	316.3	315.3	311.2	307.6	307.6	307.6	309.6	312.7	315.8	316.3
15°	317.9	317.9	315.8	311.2	309.1	309.6	309.6	311.7	315.3	319.4	319.9
17.5°	318.9	318.9	316.3	311.7	311.7	313.2	312.2	313.8	317.4	322.0	322.5
20°	320.5	320.5	316.9	313.2	313.2	314.8	314.8	316.3	319.4	324.1	324.6
22.5°	323.6	323.0	319.4	316.3	316.3	317.4	318.4	320.5	323.0	327.2	328.2
25°	327.2	327.2	324.1	323.6	324.6	327.2	326.7	326.1	327.2	330.8	332.3
27.5°	329.2	329.2	327.2	328.7	332.8	334.9	332.3	330.3	330.3	333.9	334.4
30°	335.9	335.4	333.4	334.4	338.0	339.0	337.5	334.9	336.5	340.6	341.1
32.5°	347.3	347.3	344.2	344.2	346.8	350.9	345.8	344.2	346.3	350.9	351.4
35°	364.8	364.8	360.7	358.7	360.7	366.4	358.7	358.1	361.7	366.9	367.4
37.5°	387.0	387.0	384.5	379.3	379.8	383.4	376.7	376.2	382.9	388.6	388.6
40°	414.9	416.4	413.9	407.7	405.6	406.1	401.0	401.5	409.2	415.9	415.9
42.5°	449.5	450.5	446.4	441.7	439.2	437.6	432.4	433.5	442.8	451.5	451.5
45°	491.3	491.8	487.7	482.0	478.9	477.9	472.7	475.3	485.6	494.9	494.4
47.5°	538.2	538.8	534.6	528.9	526.9	528.4	523.3	523.3	532.6	540.3	539.3
50°	591.4	592.4	587.8	585.2	583.6	587.8	581.6	575.9	582.1	589.8	588.8
52.5°	650.2	652.8	649.7	650.7	656.4	661.6	651.2	638.9	642.0	647.1	645.6
55°	721.4	724.5	725.6	729.2	744.1	752.9	735.9	715.2	713.7	714.2	711.6
57.5°	801.4	803.5	810.2	818.4	849.4	863.3	836.5	800.9	789.5	782.8	781.3
60°	881.9	885.5	902.0	919.1	966.6	991.8	950.6	890.7	866.4	854.1	851.5
62.5°	962.9	970.2	997.0	1025.9	1095.0	1132.7	1069.2	982.5	947.5	932.0	927.8
65°	1056.9	1065.6	1098.1	1134.8	1211.7	1264.8	1187.9	1077.5	1039.8	1019.2	1014.0
67.5°	1166.8	1176.1	1202.4	1243.2	1315.9	1368.0	1299.9	1174.5	1125.5	1099.2	1095.0
70°	1257.1	1265.3	1293.7	1335.0	1389.2	1448.5	1383.5	1251.9	1207.5	1189.0	1186.4
72.5°	1243.2	1254.0	1295.8	1357.7	1435.1	1502.2	1420.2	1266.9	1202.9	1177.1	1168.8
75°	1085.8	1097.6	1147.2	1259.2	1400.5	1500.7	1367.0	1167.3	1092.0	1070.3	1066.1
77.5°	718.9	730.2	813.8	990.3	1223.0	1367.5	1206.5	977.9	856.6	804.5	801.4
80°	290.5	305.0	385.0	572.3	867.0	1063.1	894.8	626.0	422.1	340.6	324.1
82.5°	67.6	80.5	117.1	211.1	443.8	662.1	482.5	233.8	135.7	96.5	86.7
85°	28.4	28.9	50.1	68.6	138.8	267.3	157.9	85.1	69.2	50.6	49.5
87.5°	10.8	11.4	24.3	28.9	44.4	50.6	53.7	43.9	40.8	25.3	24.3
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)