

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: P588354

Luminaire Tested: **ARC-CA6-100-727-U-55-X-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC-CA6-100-727-U-55-X-5-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE V REFRACTOR  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

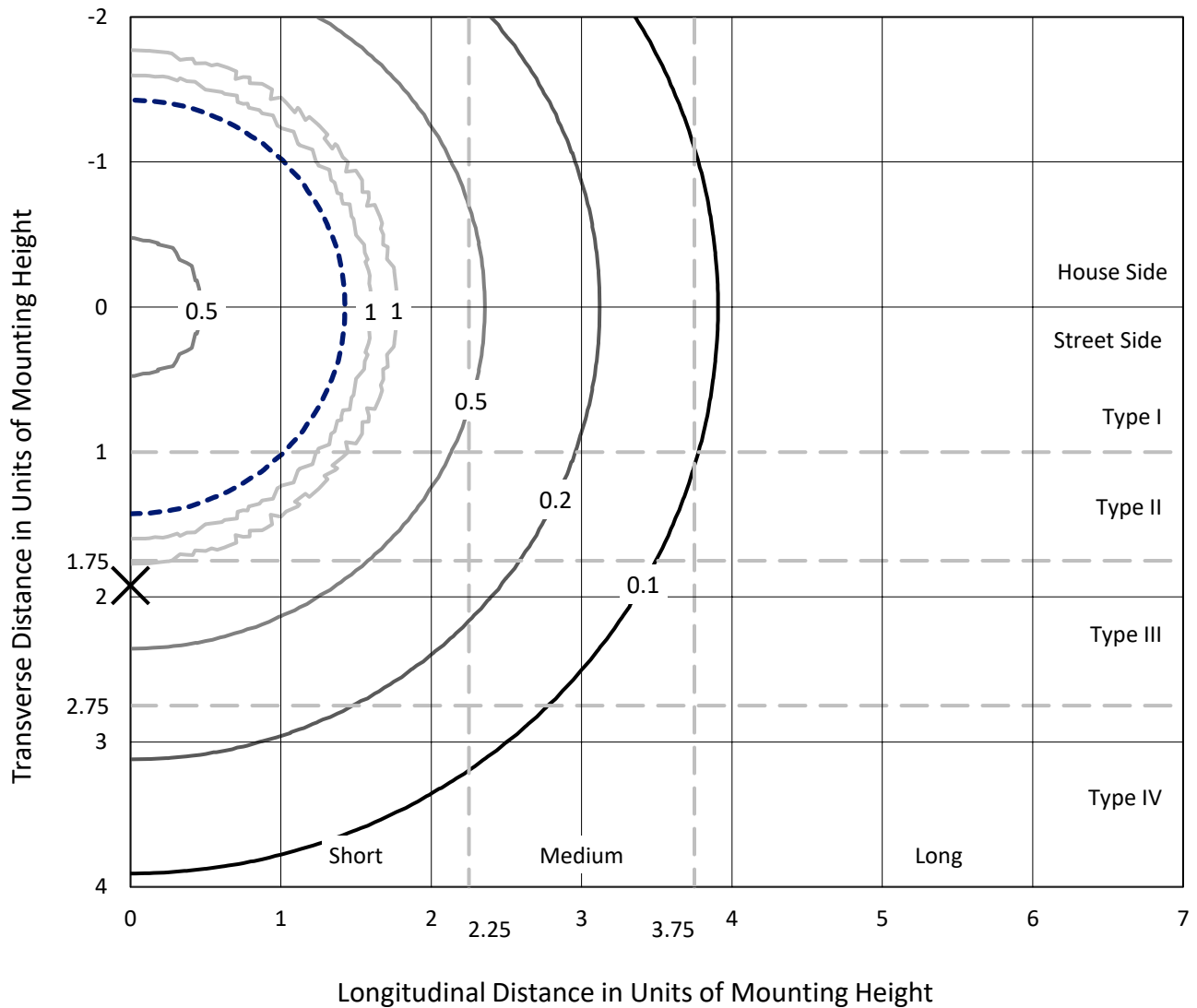
Lumens per Lamp: N/A  
Luminaire Lumens: 12803 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U4 - G5  
  
Input Watts (W): 103.7  
Input Voltage (V): 120  
Input 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: 25 FT



REPORT NUMBER: P588354  
 CATALOG NUMBER: ARC-CA6-100-727-U-55-X-5-X

### Iso-Footcandle Lines of Horizontal Illumination

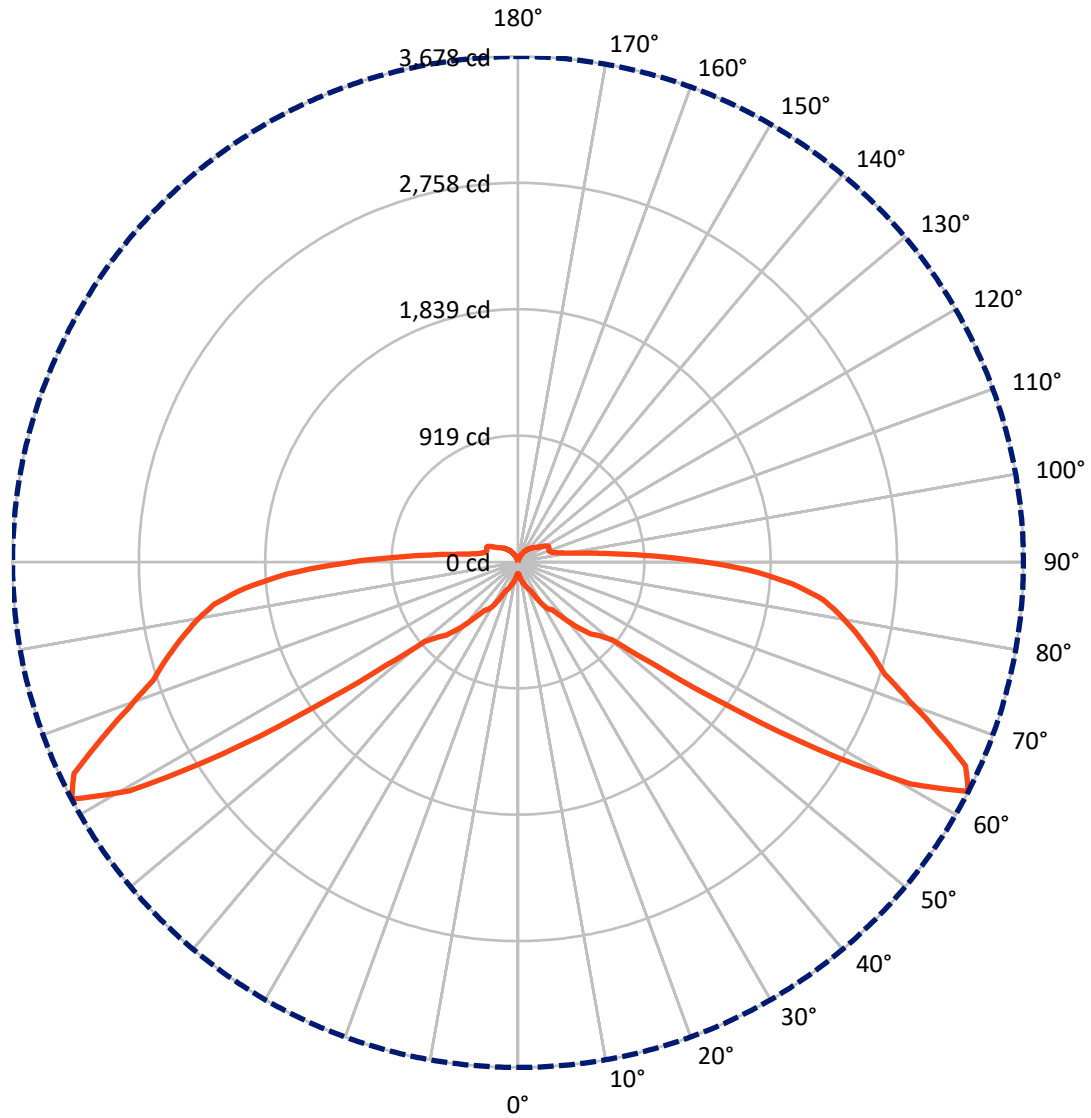
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P588354  
CATALOG NUMBER: ARC-CA6-100-727-U-55-X-5-X

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P588354  
 CATALOG NUMBER: ARC-CA6-100-727-U-55-X-5-X

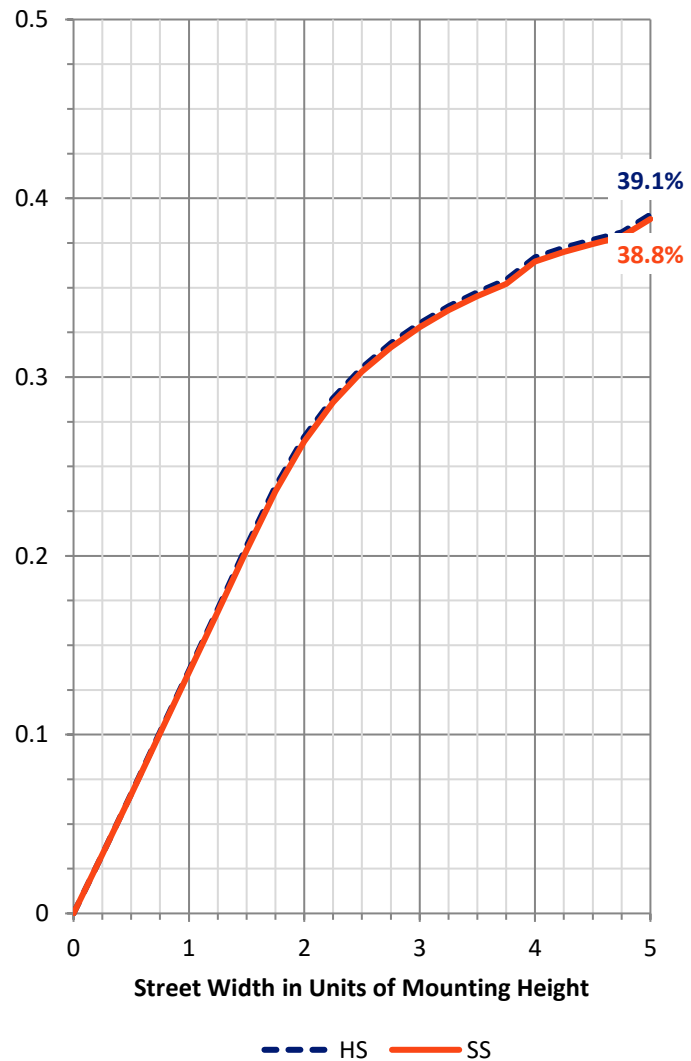
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5557.5	844.0	6401.5
	% Fixture	43.4	6.6	50.0
<b>Street Side</b>	Lumens	5557.5	844.0	6401.5
	% Fixture	43.4	6.6	50.0
<b>Total</b>	Lumens	11114.9	1688.1	12803.0
	% Fixture	86.8	13.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.5	0.1
10°-20°	48.5	0.4
20°-30°	126.1	1.0
30°-40°	283.7	2.2
40°-50°	573.2	4.5
50°-60°	1745.5	13.6
60°-70°	3396.0	26.5
70°-80°	2820.1	22.0
80°-90°	2111.3	16.5
90°-100°	773.2	6.0
100°-110°	291.1	2.3
110°-120°	242.7	1.9
120°-130°	170.9	1.3
130°-140°	110.8	0.9
140°-150°	64.2	0.5
150°-160°	27.7	0.2
160°-170°	7.0	0.1
170°-180°	0.6	0.0
0°-90°	11114.9	86.8
0°-180°	12803.0	100.0



REPORT NUMBER: P588354

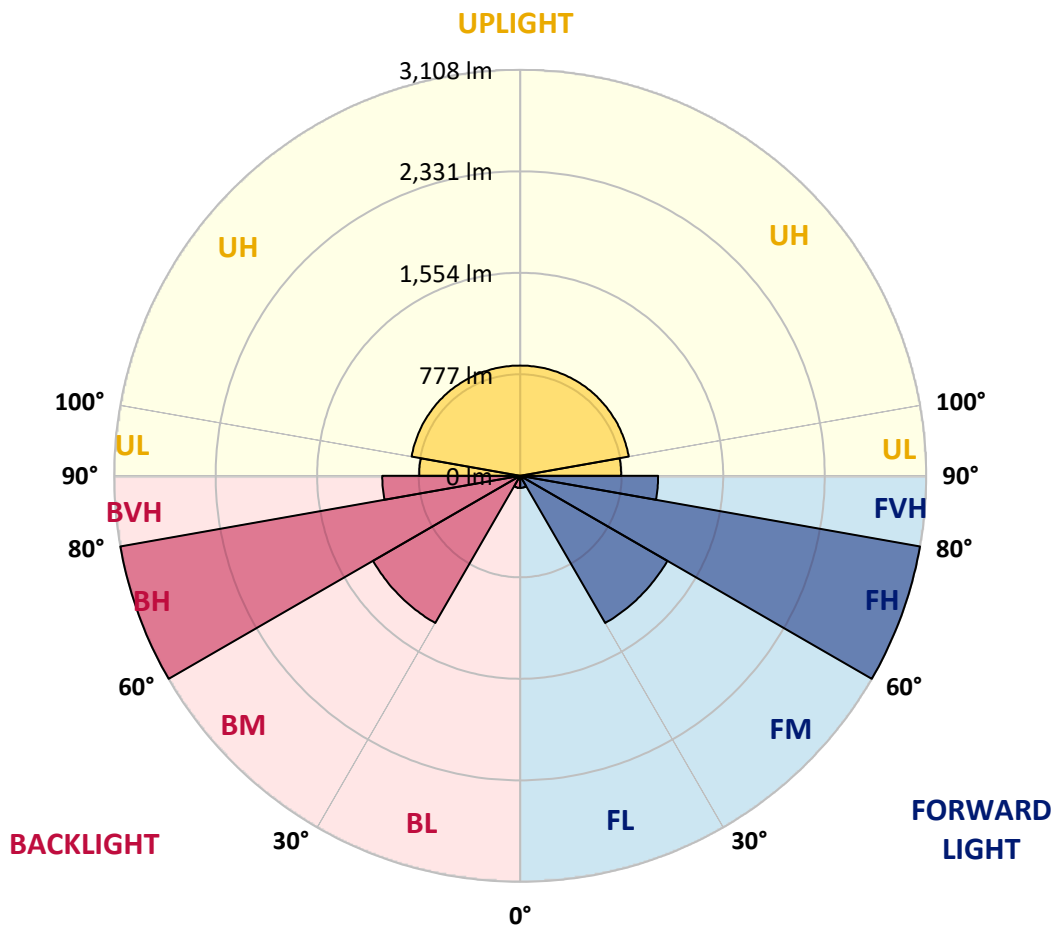
CATALOG NUMBER: ARC-CA6-100-727-U-55-X-5-X

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	92.6	0.7			
FM (30°-60°)	1301.2	10.2			
FH (60°-80°)	3108.0	24.3			G2/5000
FVH (80°-90°)	1055.6	8.2			G5
BL (0°-30°)	92.6	0.7	B0/110		
BM (30°-60°)	1301.2	10.2	B2/2500		
BH (60°-80°)	3108.0	24.3	B4/5000		G2/5000
BVH (80°-90°)	1055.6	8.2			G5
UL (90°-100°)	773.2	6.0		U4/1000	
UH (100°-180°)	844.0	6.6		U4/1000	

**BUG Rating: B4-U4-G5**

Type V Short



REPORT NUMBER: P588354  
CATALOG NUMBER: ARC-CA6-100-727-U-55-X-5-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	85.3
2.5°	87.0
5°	97.3
7.5°	116.1
10°	133.1
12.5°	150.2
15°	167.2
17.5°	184.3
20°	204.8
22.5°	220.2
25°	252.6
27.5°	310.6
30°	368.6
32.5°	407.9
35°	424.9
37.5°	488.1
40°	573.4
42.5°	662.2
45°	747.5
47.5°	802.1
50°	890.9
52.5°	1221.9
55°	1812.4
57.5°	2566.8
60°	3280.1
62.5°	3677.8
65°	3578.8
67.5°	3290.4
70°	3019.0
72.5°	2790.3
75°	2657.2
77.5°	2522.4
80°	2384.1
82.5°	2235.7
85°	1996.7
87.5°	1679.3
90°	1283.4
92.5°	914.7
95°	636.6
97.5°	460.8
100°	353.3
102.5°	293.5
105°	262.8
107.5°	245.8
110°	240.6

REPORT NUMBER: P588354

CATALOG NUMBER: ARC-CA6-100-727-U-55-X-5-X

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	244.0
115°	250.9
117.5°	247.5
120°	230.4
122.5°	204.8
125°	186.0
127.5°	172.4
130°	162.1
132.5°	151.9
135°	143.4
137.5°	133.1
140°	121.2
142.5°	110.9
145°	102.4
147.5°	92.2
150°	78.5
152.5°	68.3
155°	58.0
157.5°	49.5
160°	39.3
162.5°	30.7
165°	22.2
167.5°	15.4
170°	10.2
172.5°	5.1
175°	3.4
177.5°	5.1
180°	5.1

(END OF REPORT)