

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: H39509

Luminaire Tested: **ARC10SXX5C65XC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: H39509  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC10SXX5C65XC  
Description: STREETWORKS AVENUE ARC TYPE 5 CUT OFF POST TOP  
WITH GAGE, COPPER FINISH DECORATIVE CHIMNEY, ACRYLIC GLOBE  
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP  
LU100/U 100 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 9500 (1 lamp)  
Luminaire Lumens: 5718.9 lumens  
Efficiency: 60.2%  
Efficacy: 57.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B3 - U2 - G1

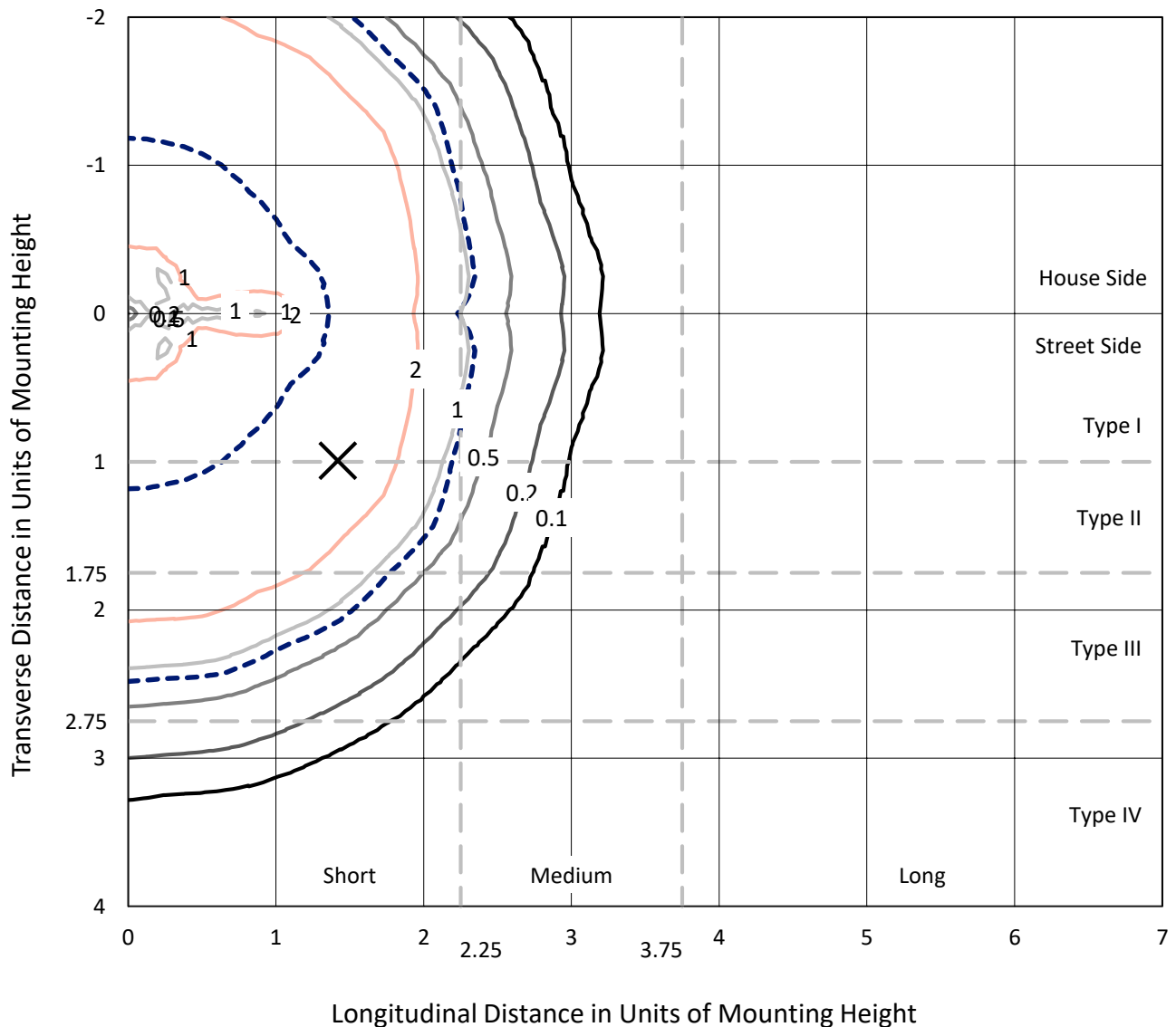
Input Watts (W): 100  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: H39509  
 CATALOG NUMBER: ARC10SXX5C65XC

### Iso-Footcandle Lines of Horizontal Illumination

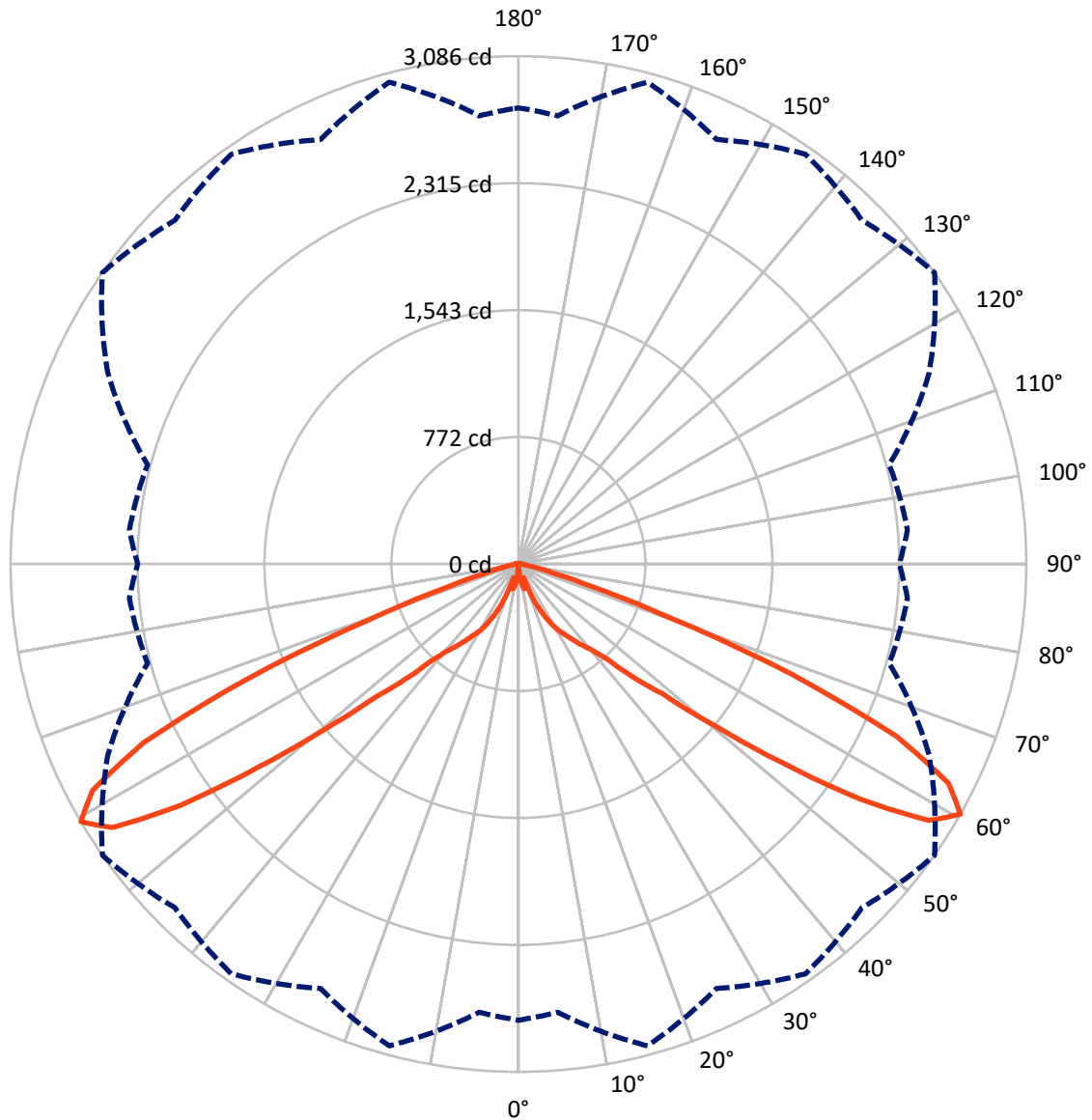
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Cutoff

REPORT NUMBER: H39509  
CATALOG NUMBER: ARC10SXX5C65XC

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: H39509

CATALOG NUMBER: ARC10SXX5C65XC

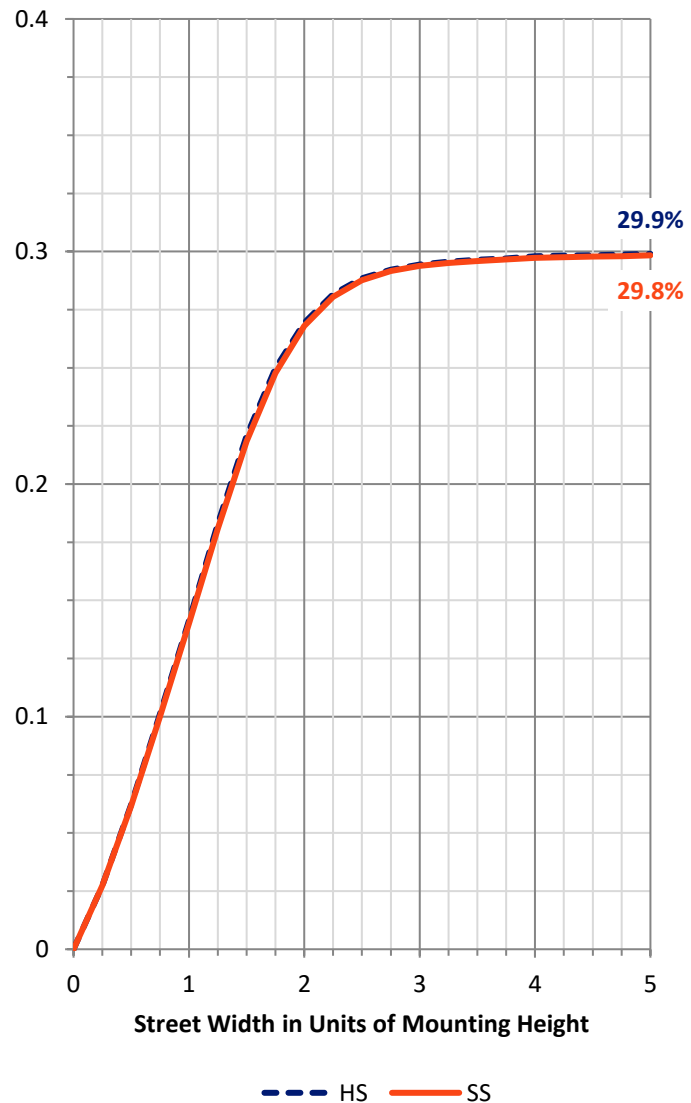
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2845.5	13.9	2859.4
	% Lamp	30.0	0.1	30.1
<b>Street Side</b>	Lumens	2845.5	13.9	2859.4
	% Lamp	30.0	0.1	30.1
<b>Total</b>	Lumens	5691.1	27.8	5718.9
	% Lamp	59.9	0.3	60.2

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.5	0.1	0.1
10°-20°	36.8	0.6	0.4
20°-30°	128.9	2.3	1.4
30°-40°	322.4	5.6	3.4
40°-50°	727.5	12.7	7.7
50°-60°	2039.4	35.7	21.5
60°-70°	2078.7	36.3	21.9
70°-80°	315.3	5.5	3.3
80°-90°	33.6	0.6	0.4
90°-100°	17.8	0.3	0.2
100°-110°	9.3	0.2	0.1
110°-120°	0.7	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	5691.1	99.5	59.9
0°-180°	5718.9	100.0	60.2



REPORT NUMBER: H39509

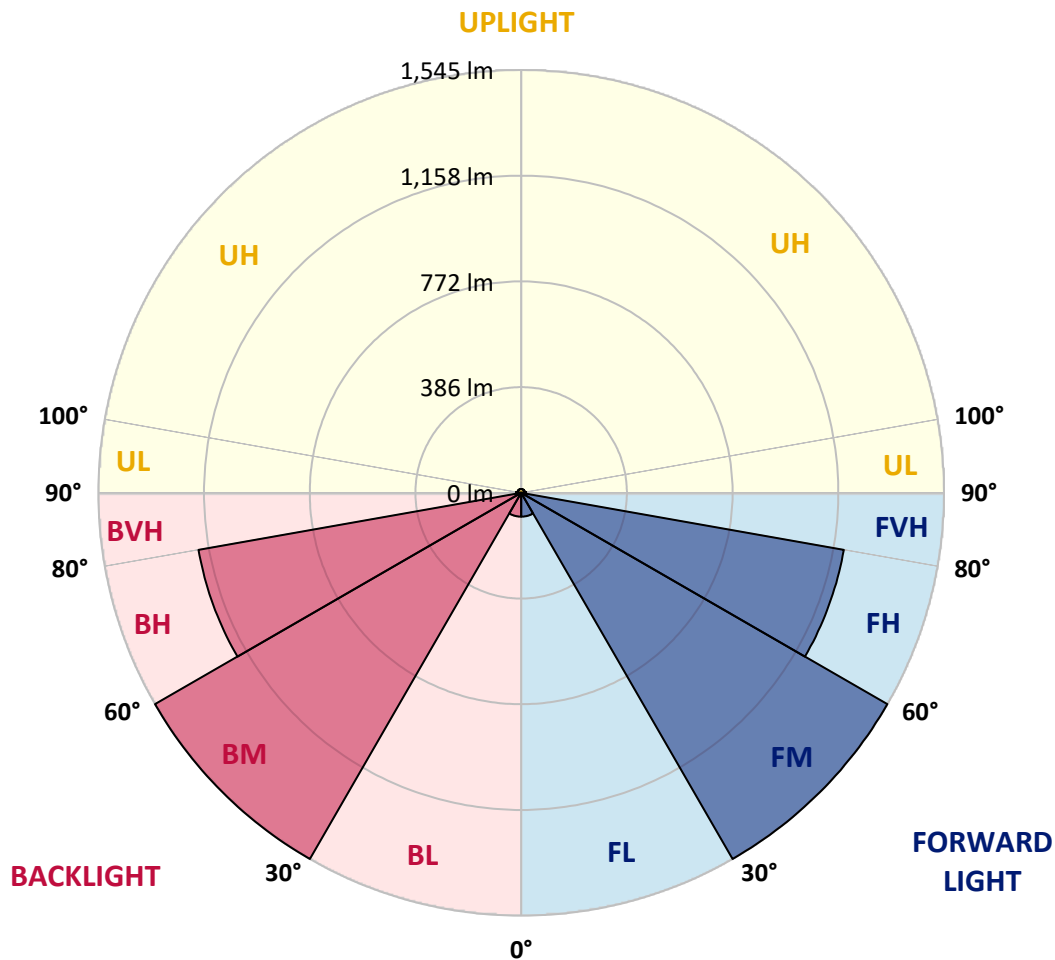
CATALOG NUMBER: ARC10SXX5C65XC

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

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.1	0.9			
FM	(30°-60°)	1544.7	16.3			
FH	(60°-80°)	1197.0	12.6			G1/1800
FVH	(80°-90°)	16.8	0.2			G1/100
BL	(0°-30°)	87.1	0.9	B0/110		
BM	(30°-60°)	1544.7	16.3	B2/2500		
BH	(60°-80°)	1197.0	12.6	B3/2500		G1/1800
BVH	(80°-90°)	16.8	0.2			G1/100
UL	(90°-100°)	17.8	0.2		U2/50	
UH	(100°-180°)	13.9	0.1		U2/50	
Trapped Light		3781.1	39.8			

**BUG Rating: B3-U2-G1**

Type V Short





REPORT NUMBER: H39509

CATALOG NUMBER: ARC10SXX5C65XC

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19	19	19	19	19	19	19	19	19	19	19
2.5°	16	16	16	16	16	16	16	16	16	17	17
5°	45	45	45	46	45	45	44	42	41	41	42
7.5°	121	124	126	126	124	115	101	95	99	101	99
10°	178	176	179	176	167	150	131	123	136	136	138
12.5°	187	192	188	182	176	165	154	143	140	148	148
15°	157	156	157	156	156	149	143	130	124	125	123
17.5°	119	115	118	115	118	110	109	96	94	86	88
20°	93	95	95	95	95	90	88	80	75	72	71
22.5°	233	235	198	207	213	211	234	244	238	72	69
25°	289	290	284	274	280	303	317	322	311	72	70
27.5°	397	384	391	354	371	398	390	395	375	79	80
30°	442	457	460	416	432	498	458	477	430	95	96
32.5°	515	509	522	469	487	548	506	508	467	126	112
35°	597	564	579	526	540	603	561	535	513	160	127
37.5°	608	604	602	555	587	616	624	619	577	204	154
40°	686	674	668	626	667	688	685	682	629	250	185
42.5°	795	759	766	727	771	778	789	790	742	318	229
45°	990	948	953	905	954	959	985	970	870	434	335
47.5°	1193	1170	1166	1109	1163	1210	1179	1177	986	624	548
50°	1524	1534	1550	1511	1564	1630	1539	1524	1214	934	875
52.5°	1989	1965	2053	2021	2064	2106	2003	1948	1524	1349	1302
55°	2421	2373	2527	2488	2534	2565	2526	2369	1840	1816	1780
57.5°	2677	2655	2892	2806	2917	2887	2940	2713	2146	2251	2217
60°	2772	2734	3031	2846	3040	2953	3086	2754	2333	2373	2314
62.5°	2672	2613	2880	2686	2911	2791	2931	2565	2290	2234	2075
65°	2341	2318	2477	2321	2537	2417	2525	2186	2001	1918	1669
67.5°	1697	1669	1778	1681	1803	1717	1795	1518	1403	1433	1232
70°	928	906	971	926	965	907	966	790	708	850	774
72.5°	451	429	461	443	445	420	444	364	315	402	369
75°	234	226	235	231	223	219	220	188	151	193	171
77.5°	120	117	120	120	119	119	115	104	81	92	83
80°	60	59	59	60	63	61	60	59	45	42	41
82.5°	37	37	37	37	39	37	37	38	29	25	25
85°	30	30	30	30	31	30	30	31	24	20	19
87.5°	22	22	22	24	24	24	24	26	20	14	14
90°	19	19	19	20	20	20	21	23	16	12	13
92.5°	18	18	18	19	18	18	19	20	14	11	11
95°	17	17	17	18	18	18	18	19	14	10	10
97.5°	16	15	16	17	16	16	17	18	14	9	9
100°	14	14	14	15	14	14	14	16	12	7	7
102.5°	12	12	12	12	12	12	12	13	10	6	5
105°	10	9	10	10	10	10	10	11	9	5	4
107.5°	7	7	7	7	7	7	7	7	6	3	3
110°	3	3	3	3	3	3	3	3	3	2	1



REPORT NUMBER: H39509

CATALOG NUMBER: ARC10SXX5C65XC

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2	1	1	1	1	1	1	1	1	1	1
115°	1	1	1	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)