

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: H39507

Luminaire Tested: **ACN10SXX5C1XXC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39507
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN10SXX5C1XXC
Description: MSTREETWORKS CLASSIC ACN TYPE 5 CUT OFF POST TOP
WITH WITH CLASSICAL CAGE, 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: 5759.6 lumens
Efficiency: 60.6%
Efficacy: 57.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U2 - G1

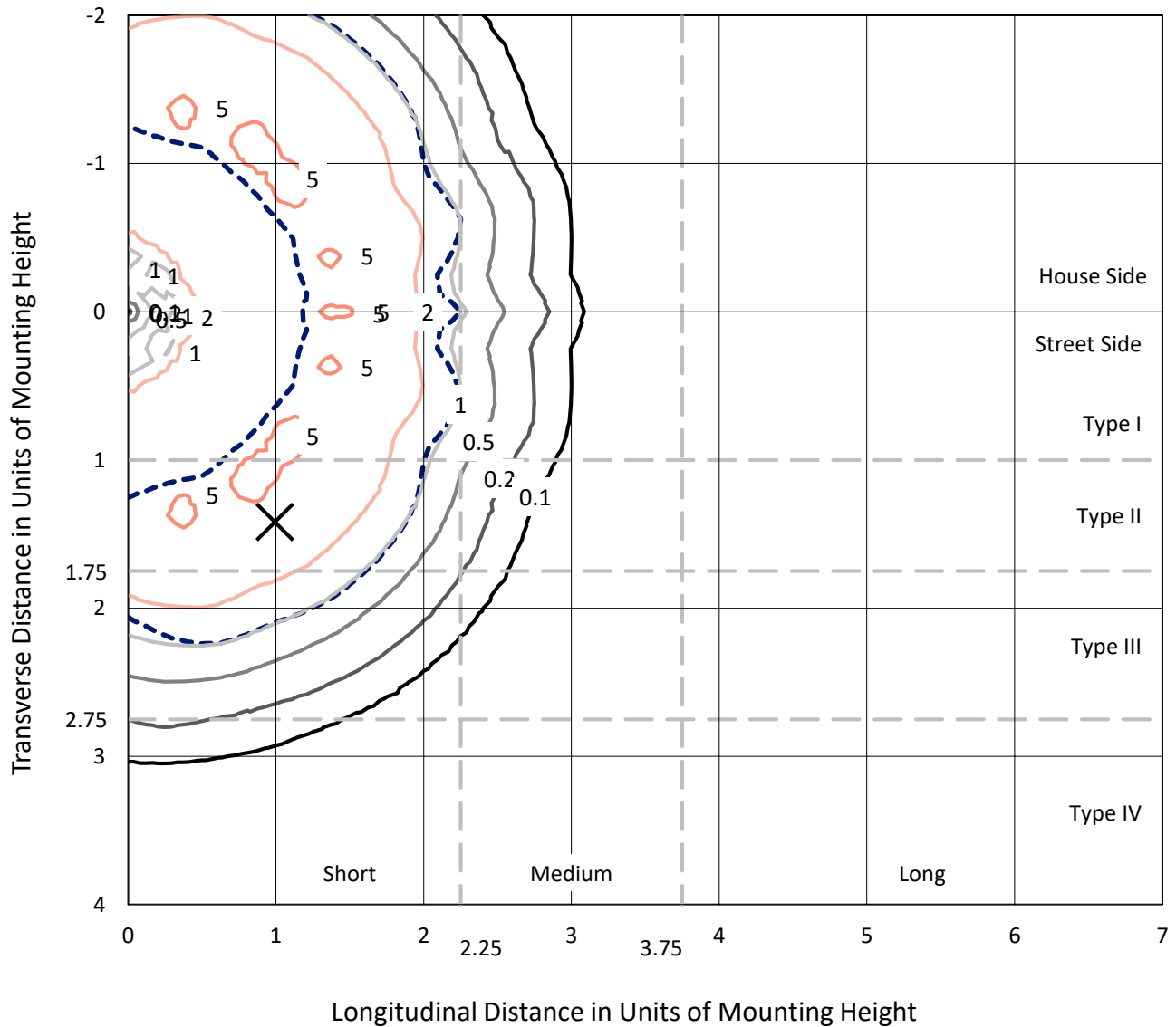
Input Watts (W): 100
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: H39507
 CATALOG NUMBER: ACN10SXX5C1XXC

Iso-Footcandle Lines of Horizontal Illumination

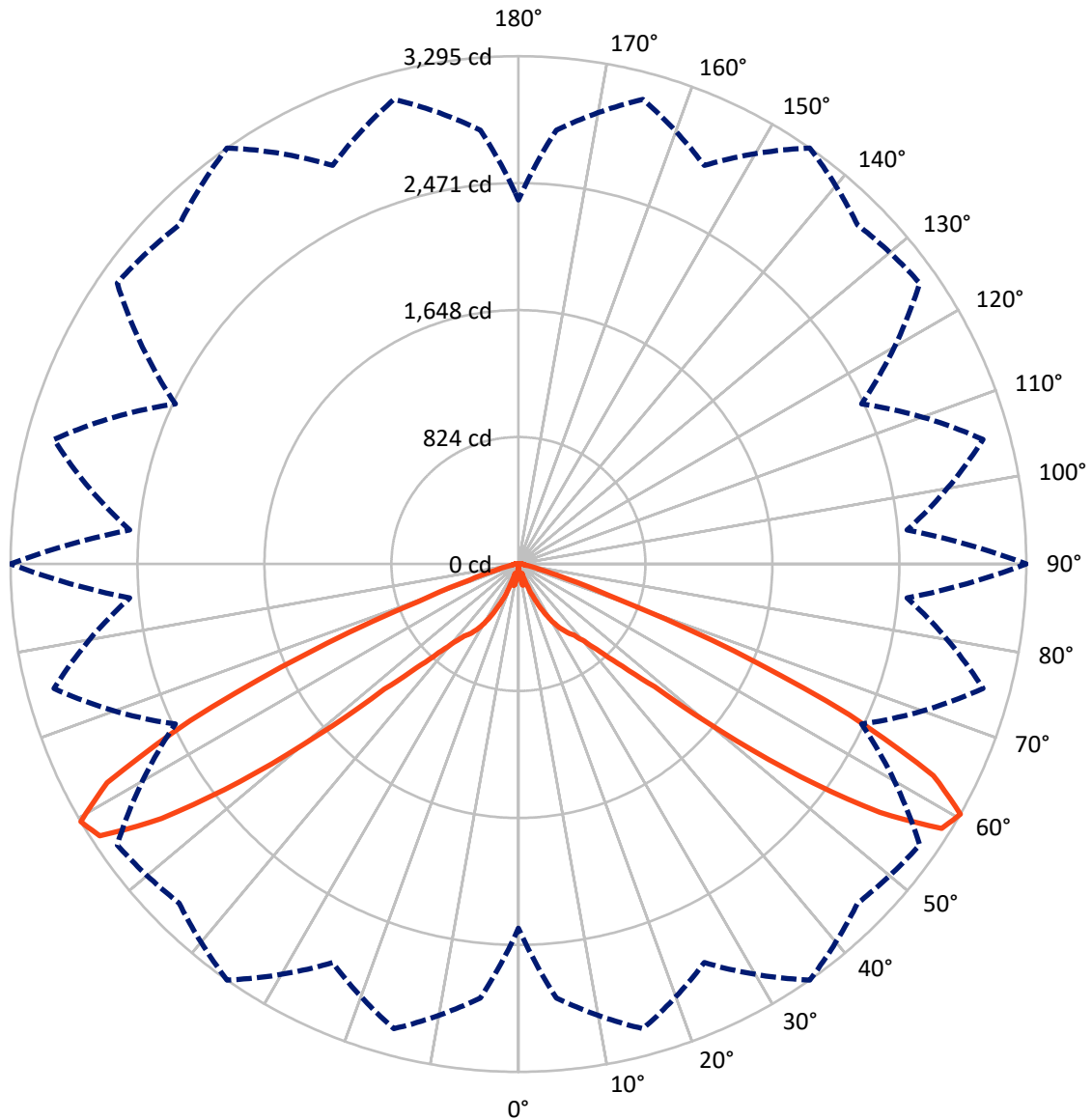
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Cutoff

REPORT NUMBER: H39507
CATALOG NUMBER: ACN10SXX5C1XXC

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: H39507

CATALOG NUMBER: ACN10SXX5C1XXC

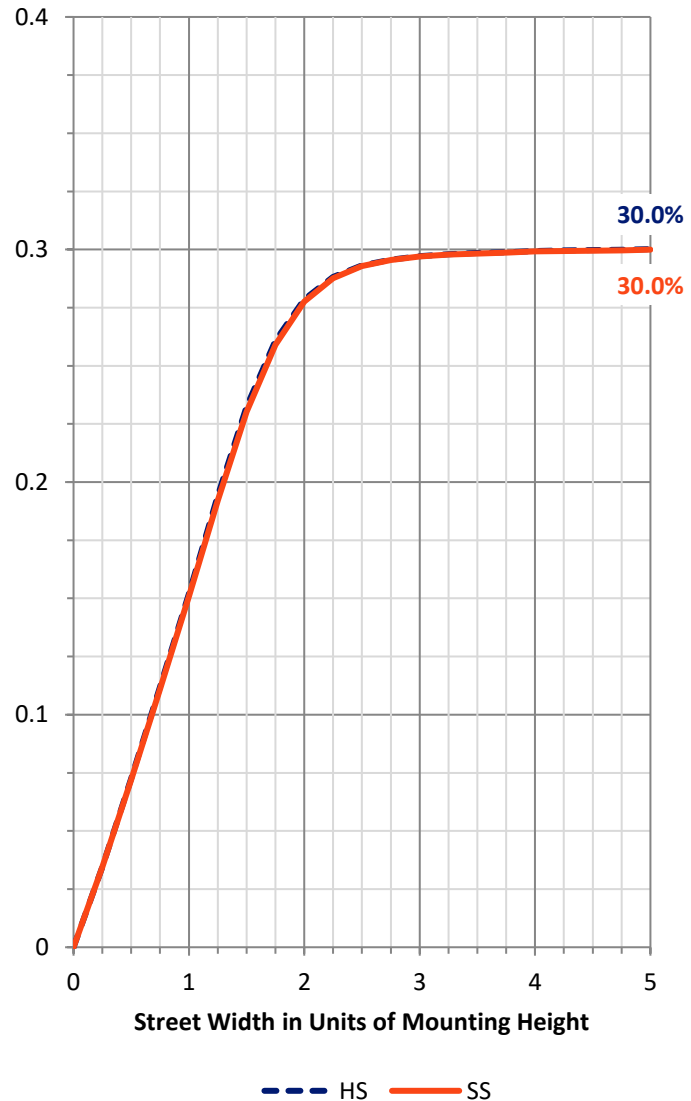
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2860.1	19.7	2879.8
	% Lamp	30.1	0.2	30.3
Street Side	Lumens	2860.1	19.7	2879.8
	% Lamp	30.1	0.2	30.3
Total	Lumens	5720.2	39.4	5759.6
	% Lamp	60.2	0.4	60.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.4	0.1	0.1
10°-20°	30.8	0.5	0.3
20°-30°	122.9	2.1	1.3
30°-40°	349.2	6.1	3.7
40°-50°	783.1	13.6	8.2
50°-60°	2250.3	39.1	23.7
60°-70°	1926.6	33.5	20.3
70°-80°	216.4	3.8	2.3
80°-90°	33.6	0.6	0.4
90°-100°	20.7	0.4	0.2
100°-110°	12.9	0.2	0.1
110°-120°	4.3	0.1	0.0
120°-130°	1.1	0.0	0.0
130°-140°	0.3	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°	5720.2	99.3	60.2
0°-180°	5759.6	100.0	60.6



REPORT NUMBER: H39507

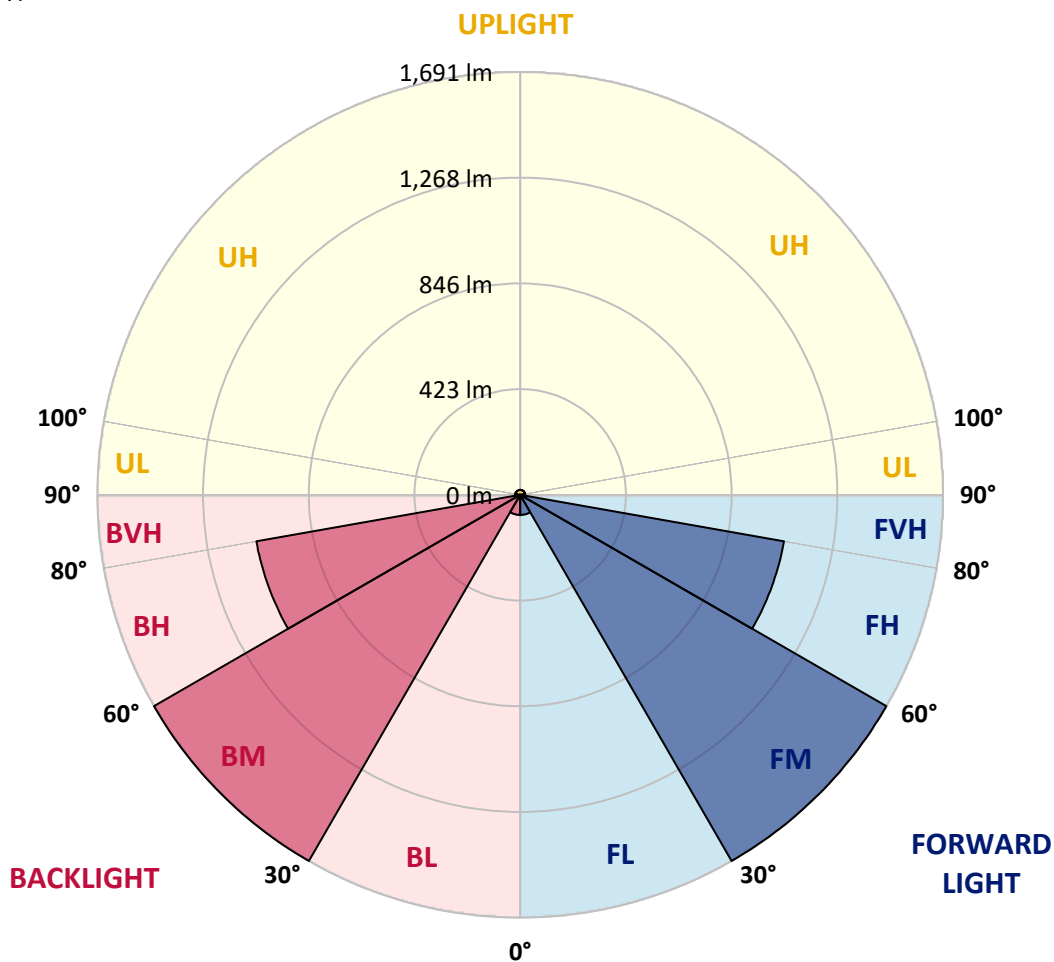
CATALOG NUMBER: ACN10SXX5C1XXC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	80.5	0.8			
FM (30°-60°)	1691.3	17.8			
FH (60°-80°)	1071.5	11.3			G1/1800
FVH (80°-90°)	16.8	0.2			G1/100
BL (0°-30°)	80.5	0.8	B0/110		
BM (30°-60°)	1691.3	17.8	B2/2500		
BH (60°-80°)	1071.5	11.3	B3/2500		G1/1800
BVH (80°-90°)	16.8	0.2			G1/100
UL (90°-100°)	20.7	0.2		U2/50	
UH (100°-180°)	19.7	0.2		U2/50	
Trapped Light	3740.4	39.4			

BUG Rating: B3-U2-G1

Type V Short





REPORT NUMBER: H39507

CATALOG NUMBER: ACN10SXX5C1XXC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9	9	9	9	9	9	9	9	9	9	9
2.5°	8	8	8	8	8	8	8	8	8	8	8
5°	31	30	34	39	44	46	43	41	35	34	33
7.5°	94	96	95	88	89	94	97	97	96	95	96
10°	175	171	159	149	134	121	116	134	158	159	160
12.5°	161	159	161	160	142	135	143	142	147	157	161
15°	114	122	124	122	116	117	115	106	118	117	124
17.5°	81	89	85	81	80	82	79	75	82	80	83
20°	63	65	71	67	63	69	67	67	71	68	65
22.5°	67	68	198	189	191	223	231	247	255	77	78
25°	69	70	256	250	272	302	323	335	335	69	69
27.5°	315	133	359	345	358	385	415	413	408	144	322
30°	454	345	435	414	431	473	473	479	466	318	488
32.5°	527	440	489	457	494	528	530	528	516	417	533
35°	576	527	553	509	547	585	576	581	585	509	591
37.5°	616	588	581	546	585	623	635	606	638	613	644
40°	683	673	641	619	659	691	705	673	684	669	701
42.5°	772	753	738	713	774	799	819	775	801	772	788
45°	913	904	904	848	946	970	980	932	971	926	936
47.5°	1049	1084	1150	1047	1189	1204	1224	1134	1217	1124	1154
50°	1382	1512	1692	1487	1706	1690	1725	1493	1689	1506	1673
52.5°	1819	1999	2306	2004	2295	2278	2324	1921	2234	1974	2265
55°	2155	2421	2802	2435	2845	2748	2839	2287	2759	2399	2812
57.5°	2311	2729	3126	2768	3238	3058	3180	2467	3112	2601	3236
60°	2362	2826	3121	2853	3295	3112	3178	2456	3120	2531	3295
62.5°	1999	2359	2845	2668	3022	2928	2931	2310	2850	2037	2716
65°	1422	1668	2210	2139	2359	2348	2284	1826	2246	1370	1880
67.5°	983	1144	1361	1374	1510	1527	1451	1134	1431	905	1280
70°	505	589	564	630	690	709	646	492	635	459	650
72.5°	250	246	288	292	328	330	303	241	271	229	268
75°	132	121	136	141	160	164	153	127	139	119	129
77.5°	68	64	75	79	89	89	83	74	76	65	66
80°	36	38	47	49	53	51	49	47	48	40	38
82.5°	26	27	35	36	38	38	37	35	36	28	26
85°	23	24	29	32	33	34	33	31	31	24	23
87.5°	18	19	24	26	27	27	27	27	28	20	20
90°	16	17	21	22	22	23	23	22	23	18	17
92.5°	15	17	20	21	21	22	21	21	21	17	15
95°	14	16	19	21	21	21	21	21	21	16	14
97.5°	12	15	18	19	19	19	19	20	19	15	12
100°	11	14	15	17	16	17	17	18	16	14	11
102.5°	11	12	13	14	14	14	15	16	14	12	10
105°	10	10	11	12	12	12	13	15	12	11	9
107.5°	9	10	11	11	11	11	12	13	11	9	8
110°	7	7	8	9	8	9	9	11	9	7	7



REPORT NUMBER: H39507

CATALOG NUMBER: ACN10SXX5C1XXC

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	5	5	5	6	5	5	6	6	5	5	4
115°	4	3	4	4	4	4	4	4	4	3	3
117.5°	3	2	3	3	3	3	3	3	3	2	2
120°	2	2	2	2	2	2	2	2	2	2	1
122.5°	1	1	1	1	2	2	2	1	1	1	1
125°	1	1	1	1	1	1	1	1	1	1	1
127.5°	1	1	1	1	1	1	1	1	1	1	1
130°	1	1	1	1	1	1	1	1	1	1	0
132.5°	1	1	1	1	0	0	0	1	1	1	0
135°	1	1	1	0	0	0	0	0	1	1	0
137.5°	1	0	0	0	0	0	0	0	0	0	0
140°	1	0	0	0	0	0	0	0	0	0	0
142.5°	1	0	0	0	0	0	0	0	0	0	0
145°	1	0	0	0	0	0	0	0	0	0	0
147.5°	1	0	0	0	0	0	0	0	0	0	0
150°	1	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)