

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: RSA

Report Number: P13488

Luminaire Tested: **AXSW31511E4W54**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P13488
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: AXSW31511E4W54
Description: RSA RECESSED LED WALL WASH FIXTURE WITH FIXED BRACKET AT 15 DEGREE (Y25823-2-31), 3000K LED LIGHT ENGINE, 15 DEGREE REFLECTOR, WHITE TRIM WITH FROSTED LENS.
Light Source: (1) PHILIPS FORTIMO SLM 3000K LED
87182911 8708000
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC DRIVER
XR025C100V036XPM1

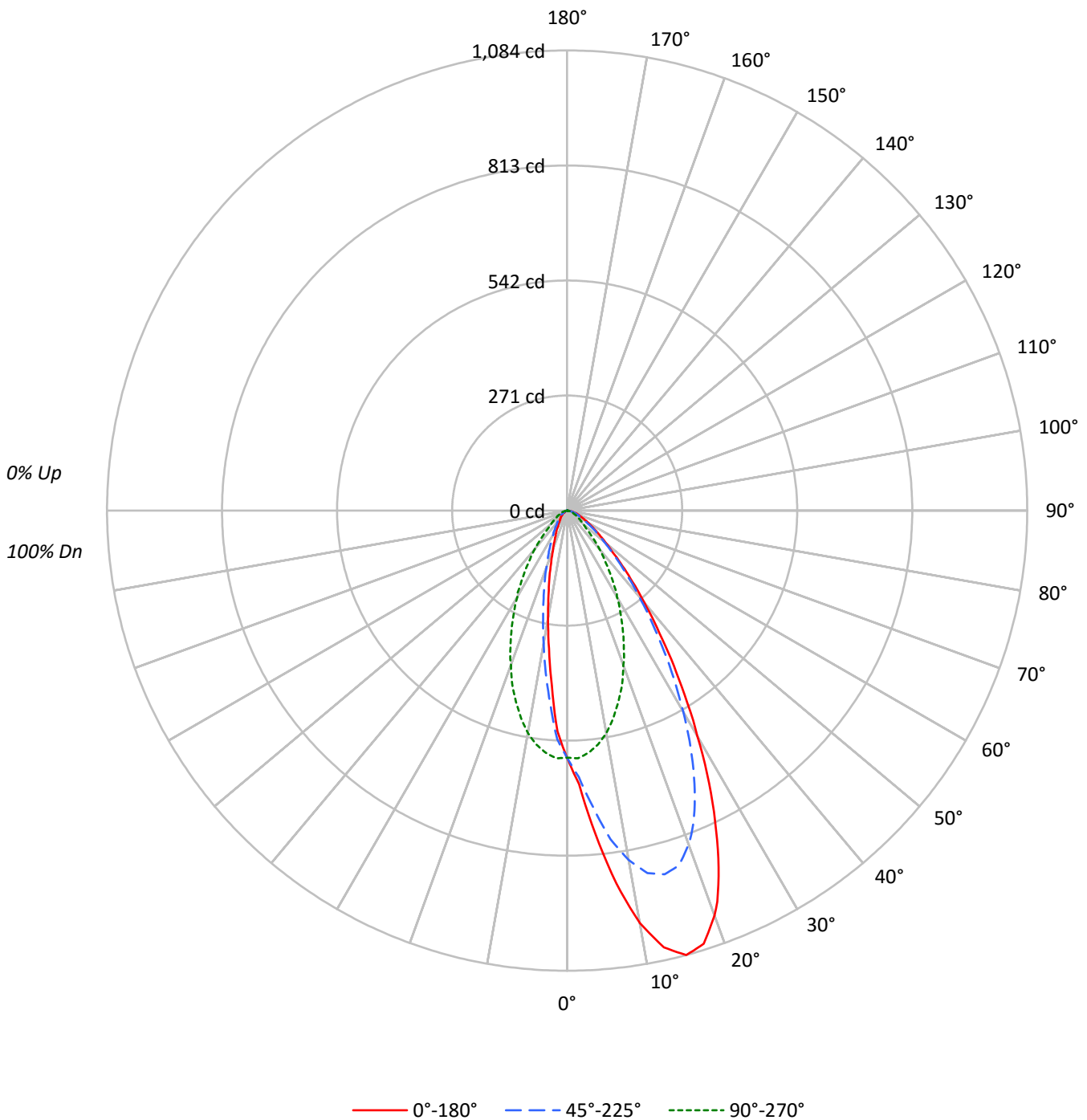
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 663.0 lumens
Efficiency: N/A
Efficacy: 31.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 0.79 / 0.93
Luminous Opening: Rectangular (W 0.29' x L: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75				75
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68				68
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63				63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58				58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53				53
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50				50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46				46
10	67	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43				43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	73641	73641	73641
5°	97039	72779	52584
10°	126812	68353	33149
15°	141998	61043	20828
20°	136671	52110	12927
25°	115877	43279	8935
30°	89562	34189	6136
35°	66111	26568	4788
40°	46744	19656	4129
45°	32925	13242	3579
50°	23622	9842	2953
55°	18310	7942	2868
60°	14424	6580	2531
65°	11377	5090	1497
70°	10359	4809	370
75°	7822	3422	0
80°	8015	2915	2186
85°	5807	0	1452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	8.4
10°-20°	151.9	22.9
20°-30°	178.0	26.8
30°-40°	132.0	19.9
40°-50°	74.5	11.2
50°-60°	39.0	5.9
60°-70°	20.8	3.1
70°-80°	9.4	1.4
80°-90°	2.1	0.3
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°-30°	385.3	58.1
0°-40°	517.3	78.0
0°-60°	630.7	95.1
0°-90°	663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	582	582	582	582	582	
5°	764	702	573	456	414	80
15°	1084	887	466	215	159	299
25°	830	710	310	97	64	377
35°	428	390	172	48	31	268
45°	184	173	74	26	20	145
55°	83	75	36	17	13	75
65°	38	32	17	8	5	39
75°	16	14	7	1	0	19
85°	4	3	0	0	1	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	55°
0°	582	582	582	582	582	582	582	582	582	582	582
2.5°	645	647	648	646	642	642	639	634	632	628	621
5°	764	764	762	758	751	745	737	726	715	702	677
7.5°	886	887	879	874	865	850	837	820	801	781	733
10°	987	984	977	969	955	936	917	895	866	836	773
12.5°	1054	1053	1045	1033	1018	996	972	944	911	875	795
15°	1084	1081	1074	1062	1044	1022	995	963	928	887	799
17.5°	1070	1068	1061	1048	1032	1010	985	951	916	876	783
20°	1015	1015	1007	996	981	962	938	908	874	837	749
21°	987	984	977	969	954	936	914	886	854	817	731
22°	951	949	944	937	922	904	884	863	828	794	711
23°	913	913	905	899	887	871	854	828	800	768	689
24°	873	873	868	861	851	835	820	797	770	739	667
25°	830	830	825	819	811	798	782	764	740	710	639
26°	789	786	783	778	768	758	743	726	705	678	613
27°	746	744	739	735	727	717	705	689	669	646	586
28°	702	702	697	695	686	678	665	652	634	614	558
29°	658	658	655	652	644	637	628	614	599	580	530
30°	613	614	615	609	603	597	587	575	562	546	500
31°	576	575	573	570	566	561	551	540	529	513	473
32°	534	534	533	531	526	521	515	505	494	483	444
33°	496	496	495	493	488	484	480	471	462	451	416
34°	459	458	457	456	452	449	444	439	429	420	387
35°	428	428	424	422	420	416	412	410	400	390	364
36°	393	393	391	390	388	385	381	377	371	362	339
37°	362	360	360	359	357	355	352	347	343	334	313
38°	335	336	333	333	332	329	327	323	318	312	291
39°	307	307	306	305	304	302	300	297	293	286	269
40°	283	284	282	281	281	278	277	274	269	264	249
42.5°	228	229	228	228	227	225	225	223	219	215	202
45°	184	184	184	183	183	182	181	179	177	173	164
47.5°	146	147	146	145	145	144	144	143	142	139	131
50°	120	121	120	119	120	118	118	117	115	113	103
52.5°	99	99	100	98	97	97	96	95	94	92	83
55°	83	82	83	82	82	81	81	79	78	75	65
57.5°	67	71	66	66	66	65	65	66	63	58	51
60°	57	56	56	57	57	56	56	54	53	49	43
62.5°	47	48	51	50	48	49	48	46	44	42	36
65°	38	39	38	38	38	39	40	37	34	32	29
67.5°	32	33	33	33	32	32	32	35	31	27	23
70°	28	24	25	26	27	26	24	24	23	21	19
72.5°	23	23	24	24	23	23	23	22	21	19	17
75°	16	18	15	18	18	17	18	14	14	14	10
77.5°	13	14	13	14	14	14	13	14	12	11	9
80°	11	11	10	12	11	12	11	10	9	8	8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	55°
82.5°	6	6	6	7	6	6	6	5	4	4	3
85°	4	3	3	3	4	3	4	2	2	3	2
87.5°	2	2	2	2	2	2	2	1	2	1	1
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	65°	75°	85°	90°	95°	105°	115°	125°	135°	140°	145°
0°	582	582	582	582	582	582	582	582	582	582	582
2.5°	610	599	588	584	577	566	556	546	539	534	532
5°	647	616	586	573	555	527	498	474	456	449	438
7.5°	683	631	581	556	531	486	447	413	385	373	362
10°	703	633	564	532	499	442	394	353	319	305	294
12.5°	710	624	542	501	463	397	342	297	262	247	237
15°	703	604	509	466	425	353	294	249	215	201	191
17.5°	681	575	476	430	385	310	253	207	176	166	153
20°	646	537	434	387	342	270	213	171	143	131	122
21°	630	525	421	374	328	255	200	160	132	121	113
22°	616	510	403	357	313	241	187	148	122	112	104
23°	593	489	387	341	297	227	174	137	112	102	96
24°	574	472	374	326	283	215	163	129	106	96	89
25°	552	453	354	310	267	201	153	119	97	88	81
26°	529	433	339	295	256	190	143	111	90	82	76
27°	506	414	322	279	240	178	133	104	83	75	71
28°	484	396	306	265	227	168	124	97	78	73	67
29°	459	376	290	251	214	157	117	89	71	66	60
30°	434	355	272	234	200	145	109	81	65	59	55
31°	414	337	261	227	191	137	101	78	63	59	52
32°	388	318	244	210	178	128	94	73	60	54	50
33°	366	299	228	197	167	119	87	67	54	49	46
34°	341	282	214	183	155	110	81	62	50	45	41
35°	323	263	203	172	146	104	76	59	48	42	40
36°	299	246	187	160	135	96	72	54	44	40	37
37°	276	229	173	147	124	89	64	49	40	37	34
38°	259	214	164	139	117	84	63	49	39	36	34
39°	240	197	150	129	108	77	56	44	37	34	31
40°	222	182	138	119	100	72	53	42	35	32	30
42.5°	181	147	111	95	80	59	46	35	30	28	27
45°	144	115	88	74	65	49	38	31	26	24	22
47.5°	111	88	71	59	50	39	32	24	22	19	18
50°	87	71	56	50	44	34	28	22	20	18	17
52.5°	69	58	46	42	38	30	26	20	19	16	17
55°	56	47	40	36	32	27	23	19	17	16	14
57.5°	45	37	31	29	26	23	18	15	12	11	10
60°	38	32	28	26	24	21	17	14	12	11	11
62.5°	31	28	26	22	20	18	16	13	11	10	9
65°	24	21	18	17	16	14	11	10	8	7	6
67.5°	22	18	17	15	15	13	10	8	7	5	5
70°	16	13	14	13	13	11	9	6	5	3	5
72.5°	15	13	12	12	10	9	8	6	5	4	4
75°	10	7	8	7	7	6	3	2	1	1	1
77.5°	9	6	5	5	5	4	3	2	1	1	1
80°	6	5	4	4	4	3	3	2	3	1	2



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CANDELA DISTRIBUTION (continued):

	65°	75°	85°	90°	95°	105°	115°	125°	135°	140°	145°
82.5°	2	2	2	2	2	1	1	1	1	0	1
85°	2	1	1	0	0	1	0	0	0	1	1
87.5°	1	1	1	1	1	1	1	0	1	1	1
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	150°	155°	160°	165°	170°	175°	180°
0°	582	582	582	582	582	582	582
2.5°	530	528	527	522	523	521	521
5°	432	425	421	420	415	412	414
7.5°	354	345	339	337	332	331	328
10°	285	277	269	265	262	260	258
12.5°	229	218	213	207	203	201	202
15°	182	174	168	163	159	157	159
17.5°	146	137	132	128	126	124	123
20°	114	108	104	100	99	98	96
21°	106	100	97	93	92	89	91
22°	97	92	88	85	83	82	83
23°	89	84	81	79	76	75	75
24°	83	78	76	73	70	70	70
25°	77	74	68	66	64	63	64
26°	71	67	64	62	61	60	60
27°	65	62	59	57	55	56	56
28°	62	58	56	53	53	52	54
29°	57	53	51	49	50	48	48
30°	52	48	46	45	45	45	42
31°	51	49	45	46	43	42	41
32°	47	43	42	41	40	40	39
33°	44	42	39	38	37	37	36
34°	39	37	36	35	33	32	33
35°	38	36	33	33	32	32	31
36°	35	34	32	31	30	31	30
37°	32	31	29	28	27	28	27
38°	32	29	29	28	28	28	27
39°	30	28	27	28	26	25	26
40°	30	27	26	26	24	24	25
42.5°	26	24	22	22	22	22	22
45°	21	21	20	20	19	18	20
47.5°	18	16	15	16	15	13	15
50°	17	16	15	14	14	15	15
52.5°	15	13	14	14	13	12	13
55°	14	13	13	12	11	11	13
57.5°	10	10	9	8	7	8	7
60°	10	10	9	8	7	8	10
62.5°	10	7	7	7	10	7	6
65°	6	5	5	4	3	3	5
67.5°	5	7	3	3	3	3	4
70°	2	2	1	3	2	2	1
72.5°	4	3	3	3	6	4	4
75°	1	0	1	2	1	1	0
77.5°	2	1	2	2	2	1	2
80°	2	1	2	1	1	3	3



TEST NUMBER: P13488

CATALOG NUMBER: AXSW31511E4W54

CANDELA DISTRIBUTION (continued):

	150°	155°	160°	165°	170°	175°	180°
82.5°	1	1	1	1	0	1	1
85°	1	0	0	1	0	1	1
87.5°	1	1	0	0	1	1	1
90°	0	0	0	0	0	0	0

(END OF REPORT)