

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: P13490

Luminaire Tested: **AXSW31011E4W54**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P13490  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: RSA  
Catalog Number: AXSW31011E4W54  
Description: RSA RECESSED LED WALL WASH FIXTURE WITH FIXED BRACKET AT 15 DEGREE (Y25823-2-31), 3000K LED LIGHT ENGINE, 10 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

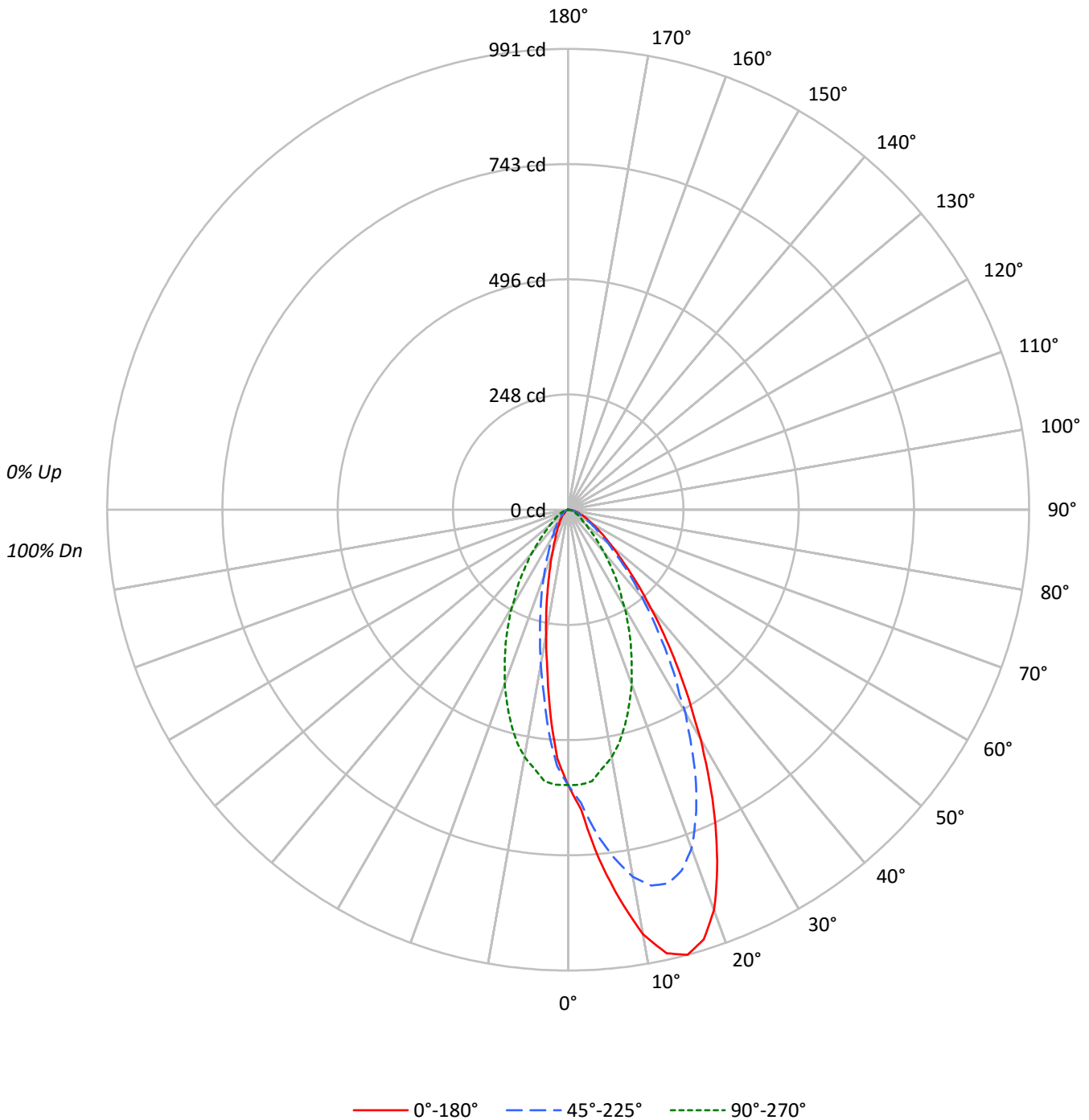
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 639.2 lumens  
Efficiency: N/A  
Efficacy: 30.4 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.8 / 0.9  
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<sub>in</sub>): 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	103	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	82				82
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75				75
4	93	84	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68				68
5	88	78	71	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	64	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	55	49	45	54	48	45	53	48	45	43				43

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	74906	74906	74906
5°	95514	74430	55759
10°	119103	69381	35076
15°	129815	62222	21614
20°	123340	53726	13465
25°	104569	44536	8656
30°	83134	35357	6721
35°	62713	27340	4943
40°	45588	19821	3799
45°	32925	13600	3042
50°	24409	9842	2559
55°	18751	7721	1985
60°	14678	6327	1518
65°	12575	5389	898
70°	9619	4069	0
75°	10266	3911	0
80°	8744	2186	729
85°	8711	2904	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	8.7
10°-20°	146.7	22.9
20°-30°	168.0	26.3
30°-40°	126.1	19.7
40°-50°	72.5	11.3
50°-60°	38.5	6.0
60°-70°	20.4	3.2
70°-80°	9.2	1.4
80°-90°	2.3	0.4
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°	370.1	57.9
0°-40°	496.2	77.6
0°-60°	607.2	95.0
0°-90°	639.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	592	592	592	592	592	
5°	752	699	586	479	439	77
15°	991	832	475	229	165	273
25°	749	650	319	100	62	340
35°	406	362	177	48	32	255
45°	184	168	76	27	17	146
55°	85	74	35	16	9	78
65°	42	34	18	7	3	42
75°	21	14	8	1	0	21
85°	6	3	2	1	0	6
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°	592	592	592	592	592	592	592	592	592	592	592
2.5°	646	649	646	645	643	641	637	637	634	631	623
5°	752	752	749	747	741	735	728	721	712	699	678
7.5°	844	842	838	833	826	815	802	789	771	755	716
10°	927	923	919	911	900	884	868	848	825	802	750
12.5°	977	973	968	959	945	927	907	885	858	828	763
15°	991	988	982	972	959	941	919	893	864	832	760
17.5°	969	970	960	950	937	921	898	874	847	813	739
20°	916	913	907	900	888	871	854	832	805	775	704
21°	886	883	878	872	860	844	828	806	782	753	684
22°	853	853	847	841	830	816	798	780	755	728	663
23°	820	820	814	808	799	784	769	752	730	704	640
24°	784	784	781	774	763	753	737	720	700	677	618
25°	749	746	744	738	729	720	709	689	670	650	594
26°	713	711	708	703	694	684	671	658	639	620	568
27°	676	673	671	664	658	649	637	625	607	589	542
28°	639	639	633	630	623	614	603	590	577	559	515
29°	602	604	598	595	588	580	570	561	547	528	488
30°	569	566	563	559	555	547	537	529	516	504	462
31°	529	527	524	521	516	509	501	491	480	465	432
32°	498	498	494	492	486	480	473	464	454	441	409
33°	467	467	462	460	455	450	443	436	426	416	385
34°	435	435	433	430	426	422	414	406	397	388	363
35°	406	405	405	401	397	392	387	379	371	362	337
36°	378	374	374	371	369	363	358	351	343	335	313
37°	350	349	348	345	341	338	332	327	319	312	291
38°	325	324	323	322	318	315	310	305	298	291	273
39°	301	301	299	297	293	291	286	282	277	268	251
40°	276	277	276	275	271	269	265	263	255	248	231
42.5°	227	227	226	225	224	221	219	215	210	206	192
45°	184	184	183	183	181	181	178	175	172	168	155
47.5°	149	147	146	146	145	143	142	140	135	133	121
50°	124	125	123	123	122	121	119	118	115	112	101
52.5°	102	101	99	98	98	96	95	93	95	89	79
55°	85	85	85	84	83	82	81	79	78	74	65
57.5°	71	73	72	70	70	69	68	68	64	61	52
60°	58	60	59	59	59	58	57	56	53	50	43
62.5°	50	52	49	50	50	48	47	46	46	40	35
65°	42	41	41	41	41	41	41	39	36	34	29
67.5°	35	35	36	34	36	35	34	33	31	28	23
70°	26	25	25	27	24	26	24	24	21	21	17
72.5°	24	24	24	24	24	24	24	23	21	19	17
75°	21	18	17	19	19	19	18	16	14	14	11
77.5°	16	16	16	17	17	15	16	14	14	12	10
80°	12	13	12	12	12	12	11	10	9	8	7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	55°
82.5°	9	9	9	8	9	8	8	7	7	5	4
85°	6	7	5	6	5	6	5	5	4	3	3
87.5°	2	2	2	3	2	2	1	1	2	1	0
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°	592	592	592	592	592	592	592	592	592	592	592
2.5°	614	606	596	592	586	577	568	558	551	548	545
5°	651	626	596	586	571	542	518	497	479	469	465
7.5°	674	628	583	561	539	500	463	428	400	390	378
10°	689	629	569	540	511	459	411	371	338	323	312
12.5°	692	618	544	511	477	415	360	314	281	265	251
15°	679	596	514	475	437	370	312	266	229	215	201
17.5°	656	566	478	437	397	327	270	221	191	174	161
20°	619	531	441	399	360	287	229	185	152	140	131
21°	602	514	423	381	342	272	214	172	139	127	118
22°	583	496	407	364	325	256	200	158	128	116	108
23°	564	479	391	349	310	241	190	146	120	110	98
24°	544	459	374	332	294	228	174	136	108	100	90
25°	523	442	357	319	280	215	163	125	100	91	84
26°	501	423	341	302	265	202	152	117	93	85	78
27°	479	402	324	287	251	189	142	108	86	77	71
28°	456	385	308	270	237	178	134	100	82	71	65
29°	432	370	292	257	223	167	123	93	75	66	61
30°	412	348	279	242	213	157	115	88	69	64	60
31°	384	323	255	224	193	142	103	77	60	55	49
32°	365	308	245	214	185	136	100	74	58	52	48
33°	344	290	231	202	174	128	95	71	57	50	46
34°	322	273	216	190	163	120	89	66	54	49	44
35°	301	256	203	177	152	111	81	61	48	44	40
36°	280	237	187	163	140	101	74	56	43	39	36
37°	261	222	175	153	132	95	68	52	42	37	35
38°	244	206	163	141	122	90	64	50	39	36	33
39°	226	192	150	131	111	82	60	45	36	34	31
40°	211	179	138	120	103	75	56	42	34	32	28
42.5°	171	143	110	96	82	61	46	36	30	27	25
45°	136	111	86	76	66	50	37	30	27	23	22
47.5°	104	83	64	60	53	40	29	22	17	16	17
50°	87	69	58	50	45	35	28	23	19	18	16
52.5°	64	56	42	39	36	28	23	17	14	12	12
55°	54	46	38	35	31	26	22	18	16	14	13
57.5°	45	37	33	30	26	22	22	15	12	15	11
60°	35	31	27	25	22	20	16	13	12	10	9
62.5°	29	26	23	21	20	16	16	11	11	8	7
65°	24	21	21	18	16	14	12	10	7	7	5
67.5°	20	19	16	16	14	12	10	8	7	6	5
70°	14	11	9	11	8	7	3	2	2	0	0
72.5°	14	12	10	11	9	8	6	4	4	3	2
75°	11	7	9	8	7	4	2	2	1	0	0
77.5°	9	7	6	5	5	5	3	3	3	2	3
80°	5	4	2	3	2	1	2	1	1	1	2





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**CANDELA DISTRIBUTION (continued):**

	65°	75°	85°	90°	95°	105°	115°	125°	135°	140°	145°
82.5°	4	3	2	2	1	2	1	1	1	1	0
85°	2	2	1	2	1	1	0	0	1	0	1
87.5°	0	0	0	0	0	0	0	0	0	0	0
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°	592	592	592	592	592	592	592
2.5°	543	541	538	537	537	535	535
5°	456	449	448	442	441	442	439
7.5°	369	361	356	351	347	346	344
10°	301	291	286	280	277	274	273
12.5°	242	235	224	220	216	213	215
15°	191	184	177	172	168	166	165
17.5°	152	144	137	133	131	130	128
20°	121	114	109	107	104	102	100
21°	109	103	99	95	92	91	91
22°	101	99	90	87	84	83	83
23°	93	86	82	79	77	77	76
24°	85	78	75	72	71	69	68
25°	78	72	68	67	65	63	62
26°	72	69	64	62	60	59	63
27°	66	61	59	57	55	55	54
28°	60	57	54	52	51	51	49
29°	56	52	51	48	47	46	47
30°	53	51	48	47	45	43	46
31°	44	42	40	39	36	36	37
32°	45	42	40	39	37	37	36
33°	44	40	39	38	36	36	36
34°	41	40	36	35	33	34	34
35°	38	36	33	33	31	31	32
36°	33	33	30	30	29	28	29
37°	32	30	29	28	28	27	27
38°	30	29	29	27	26	26	27
39°	30	28	27	25	25	25	24
40°	26	25	28	24	23	25	23
42.5°	24	23	21	21	20	21	21
45°	21	20	18	17	17	17	17
47.5°	14	12	12	13	10	10	10
50°	15	15	15	14	13	13	13
52.5°	12	9	10	9	8	7	10
55°	13	12	10	10	10	10	9
57.5°	10	10	9	9	7	8	8
60°	8	7	8	7	6	7	6
62.5°	7	6	10	5	8	5	4
65°	5	4	3	3	5	3	3
67.5°	4	4	4	4	3	3	2
70°	1	0	0	0	0	2	0
72.5°	3	3	3	2	4	2	3
75°	2	1	0	1	1	0	0
77.5°	2	2	3	1	2	2	2
80°	2	1	1	1	1	2	1



TEST NUMBER: P13490

CATALOG NUMBER: AXSW31011E4W54

**CANDELA DISTRIBUTION (continued):**

	150°	155°	160°	165°	170°	175°	180°
82.5°	1	1	1	0	1	1	0
85°	0	1	2	1	0	0	0
87.5°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)