

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: P13489

Luminaire Tested: **AXSW34011E4W54**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P13489  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: RSA  
Catalog Number: AXSW34011E4W54  
Description: RSA RECESSED LED WALL WASH FIXTURE WITH FIXED BRACKET AT 15 DEGREE (Y25823-2-31), 3000K LED LIGHT ENGINE, 40 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

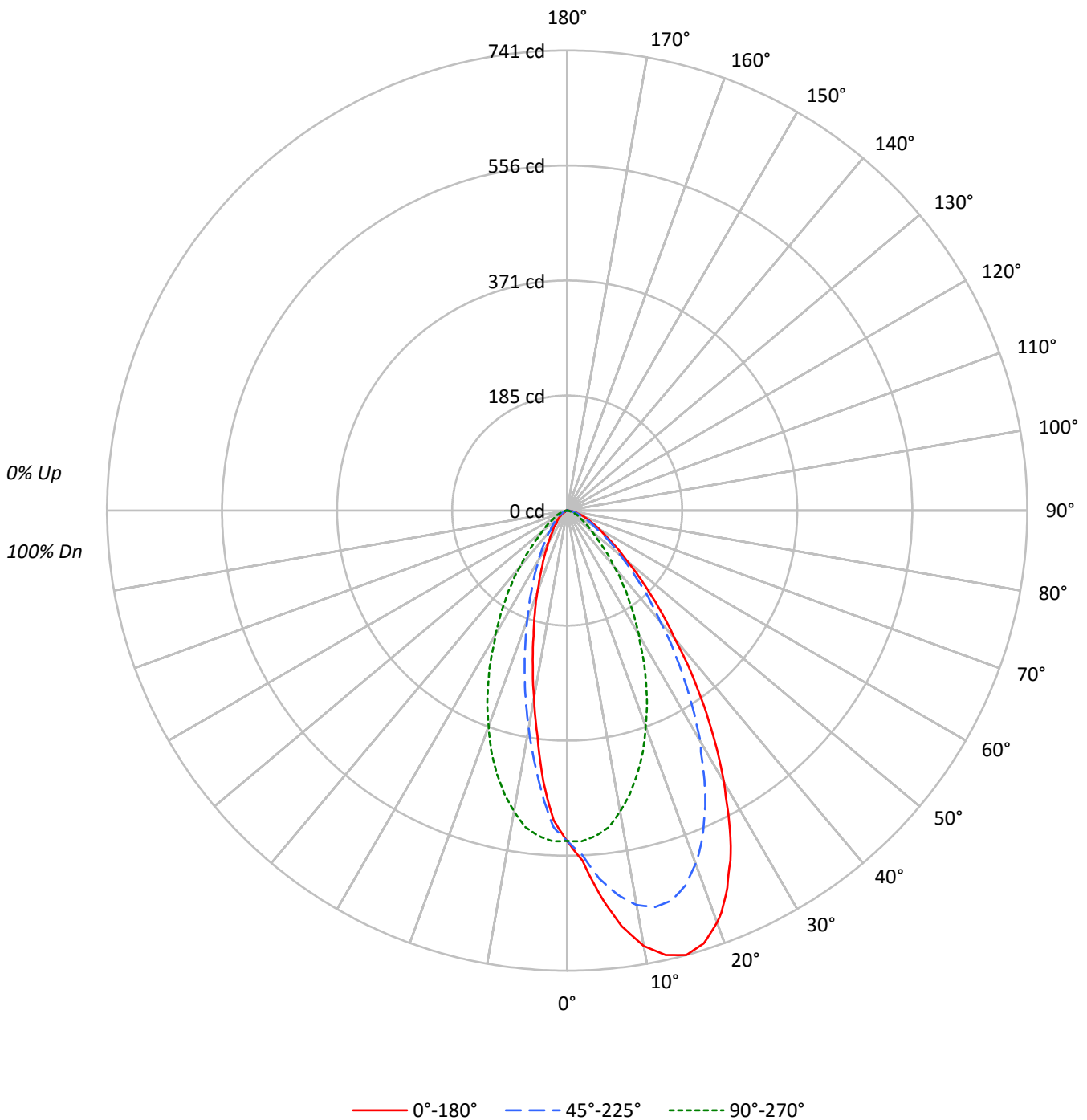
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 593.6 lumens  
Efficiency: N/A  
Efficacy: 28.3 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.83 / 0.92  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	44	52	47	43	52	47	43	42

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

	0°	90°	180°
0°	67314	67314	67314
5°	79257	66809	55632
10°	91480	63213	39444
15°	97067	57375	27378
20°	95064	49821	18986
25°	86838	41744	12844
30°	73783	33750	9351
35°	59469	26414	6333
40°	44597	19160	4295
45°	33641	13957	3937
50°	24606	10039	2559
55°	18972	8162	2647
60°	14931	6073	1265
65°	12275	5389	599
70°	10729	4439	1110
75°	8311	2444	0
80°	8015	1457	729
85°	7259	1452	2904



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	8.3
10°-20°	127.2	21.4
20°-30°	149.8	25.2
30°-40°	121.1	20.4
40°-50°	74.3	12.5
50°-60°	39.7	6.7
60°-70°	20.8	3.5
70°-80°	9.0	1.5
80°-90°	2.2	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°	326.4	55.0
0°-40°	447.5	75.4
0°-60°	561.5	94.6
0°-90°	593.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	593.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	532	532	532	532	532	
5°	624	595	526	459	438	62
15°	741	650	438	264	209	206
25°	622	526	299	132	92	282
35°	385	326	171	63	41	239
45°	188	166	78	32	22	148
55°	86	77	37	17	12	79
65°	41	34	18	9	2	42
75°	17	13	5	0	0	20
85°	5	3	1	1	2	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°	532	532	532	532	532	532	532	532	532	532	532
2.5°	564	565	564	563	563	562	560	559	557	555	556
5°	624	624	622	621	618	614	610	607	601	595	582
7.5°	675	672	671	667	665	659	652	645	634	624	603
10°	712	711	707	703	698	692	681	671	658	645	616
12.5°	733	734	730	724	717	708	697	686	670	654	618
15°	741	740	736	730	722	711	699	684	668	650	608
17.5°	731	731	726	720	711	701	686	671	653	633	589
20°	706	705	700	695	685	674	660	644	626	605	559
21°	693	691	689	682	672	660	647	630	611	592	547
22°	677	675	672	665	657	646	632	614	596	577	532
23°	660	660	655	649	641	629	616	600	582	561	517
24°	639	640	635	629	621	611	596	582	564	543	499
25°	622	619	616	610	602	593	576	561	546	526	482
26°	601	599	595	588	580	570	558	542	526	507	466
27°	577	575	573	565	558	548	536	521	506	487	447
28°	553	551	550	543	534	525	514	499	484	466	427
29°	527	524	522	518	510	501	489	477	460	444	406
30°	505	505	501	496	489	479	470	457	443	430	390
31°	481	479	479	474	467	458	447	437	422	406	372
32°	456	455	453	448	442	434	425	413	401	387	353
33°	432	433	429	425	420	412	403	392	379	366	334
34°	407	408	404	401	395	389	380	371	361	346	317
35°	385	384	380	378	372	369	357	349	342	326	298
36°	360	361	360	355	351	346	340	330	320	307	280
37°	338	337	336	333	329	323	317	308	299	288	264
38°	317	315	314	313	307	305	297	291	282	271	248
39°	293	293	292	289	286	282	278	270	261	252	231
40°	270	269	269	266	263	260	255	248	241	233	212
42.5°	229	228	228	226	224	221	216	212	206	199	183
45°	188	188	187	186	185	184	181	176	172	166	151
47.5°	156	154	154	153	151	150	149	145	141	136	124
50°	125	126	125	124	123	122	120	118	115	112	100
52.5°	105	105	105	106	104	104	101	99	97	94	84
55°	86	87	86	86	85	85	84	82	79	77	66
57.5°	70	70	70	68	69	68	66	65	66	59	50
60°	59	58	58	58	58	58	57	56	54	50	43
62.5°	50	52	49	53	49	48	47	46	45	43	36
65°	41	40	41	41	41	41	39	38	35	34	28
67.5°	35	35	35	34	34	38	34	33	32	28	24
70°	29	28	29	28	29	28	28	28	24	22	21
72.5°	23	24	23	23	24	24	22	22	20	19	17
75°	17	18	17	17	20	18	18	17	13	13	10
77.5°	15	16	15	16	16	17	14	14	12	11	9
80°	11	10	11	11	11	11	10	9	10	8	7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	55°
82.5°	8	8	9	8	8	8	7	7	6	6	4
85°	5	5	5	5	5	5	4	3	3	3	2
87.5°	2	2	3	2	2	1	2	2	3	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°	532	532	532	532	532	532	532	532	532	532	532
2.5°	546	541	536	533	530	525	519	513	510	507	506
5°	567	552	535	526	518	501	485	473	459	454	449
7.5°	578	554	525	514	498	472	447	425	406	397	390
10°	583	546	511	492	474	440	409	379	356	346	337
12.5°	577	534	490	467	445	405	367	335	309	297	286
15°	562	514	463	438	414	368	326	291	264	252	241
17.5°	541	487	432	406	380	331	288	252	224	212	203
20°	509	456	399	370	344	295	251	216	188	177	168
21°	495	441	385	356	329	281	237	202	175	164	156
22°	481	427	370	343	314	266	224	190	163	153	144
23°	467	413	356	329	302	253	211	179	153	143	135
24°	449	396	341	314	287	239	198	166	141	132	125
25°	433	380	326	299	278	226	187	156	132	123	116
26°	417	366	312	286	260	214	176	145	122	114	106
27°	398	349	297	271	246	202	164	135	114	106	99
28°	381	333	282	256	232	190	153	125	105	97	91
29°	363	315	266	241	217	175	142	115	95	87	82
30°	348	304	258	231	208	169	137	110	92	85	79
31°	334	287	242	218	197	160	126	104	86	78	73
32°	313	272	228	206	186	149	118	96	80	74	69
33°	297	257	215	195	174	140	111	90	75	69	64
34°	281	242	202	182	164	131	105	83	69	64	59
35°	263	228	189	171	153	121	96	77	63	59	56
36°	249	215	178	162	142	114	90	72	61	56	52
37°	233	201	166	149	133	106	84	68	56	51	48
38°	219	188	155	141	125	98	78	63	52	48	45
39°	203	174	143	129	114	92	70	57	48	44	40
40°	187	158	130	116	102	79	61	51	41	37	34
42.5°	160	135	109	99	88	70	55	45	38	35	33
45°	131	109	89	78	71	57	45	38	32	29	28
47.5°	108	88	71	63	57	46	38	31	27	24	23
50°	83	69	57	51	45	37	29	26	21	19	18
52.5°	71	58	48	44	41	33	30	24	19	19	18
55°	55	47	40	37	34	28	24	20	17	16	14
57.5°	41	35	29	28	24	20	17	14	12	10	12
60°	36	30	27	24	22	19	16	14	11	9	9
62.5°	31	26	23	21	19	18	16	11	11	9	8
65°	24	21	19	18	16	14	11	8	9	6	6
67.5°	21	18	15	15	14	13	10	9	6	6	6
70°	17	14	12	12	10	11	9	6	3	5	2
72.5°	14	11	10	8	8	7	7	4	3	2	2
75°	8	8	5	5	5	4	2	1	0	1	1
77.5°	8	6	5	5	5	5	4	2	2	2	2
80°	6	3	4	2	3	2	2	1	1	0	1





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**CANDELA DISTRIBUTION (continued):**

	65°	75°	85°	90°	95°	105°	115°	125°	135°	140°	145°
82.5°	4	3	2	2	2	1	0	1	1	1	1
85°	1	2	1	1	1	1	1	1	1	0	0
87.5°	1	0	0	0	0	0	0	0	1	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°	532	532	532	532	532	532	532
2.5°	505	503	501	501	499	499	499
5°	445	441	439	435	433	435	438
7.5°	384	378	374	370	368	368	366
10°	328	323	316	313	310	309	307
12.5°	280	274	267	260	258	256	256
15°	233	226	220	216	213	211	209
17.5°	194	189	181	180	177	173	173
20°	160	154	148	144	141	141	141
21°	148	143	137	134	131	129	128
22°	139	135	129	123	121	120	119
23°	128	124	119	115	112	111	109
24°	116	113	107	104	102	100	99
25°	108	103	99	95	94	92	92
26°	101	95	92	90	87	85	85
27°	93	88	84	81	79	78	79
28°	86	81	77	74	73	73	72
29°	76	73	69	66	64	65	64
30°	74	72	67	65	65	64	64
31°	68	65	62	62	60	58	57
32°	63	60	57	55	54	53	53
33°	60	56	54	52	50	50	50
34°	56	52	50	48	47	46	45
35°	51	48	45	44	42	42	41
36°	48	48	44	41	40	40	40
37°	44	42	39	39	37	36	36
38°	42	40	38	35	36	35	35
39°	38	36	35	33	32	32	31
40°	32	30	28	28	26	28	26
42.5°	30	29	28	26	26	25	26
45°	25	24	26	23	22	20	22
47.5°	23	20	19	20	18	17	19
50°	16	16	14	14	13	14	13
52.5°	16	16	14	15	14	14	13
55°	13	12	12	11	12	11	12
57.5°	11	8	7	7	6	8	7
60°	7	7	7	6	6	6	5
62.5°	6	8	6	6	5	5	4
65°	5	5	4	3	4	3	2
67.5°	7	7	3	3	3	4	4
70°	2	1	4	3	2	2	3
72.5°	2	2	2	2	1	2	1
75°	0	0	0	0	0	1	0
77.5°	1	2	3	2	1	1	2
80°	0	1	0	1	1	1	1



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)