

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: P13487

Luminaire Tested: **AXSW32511E4W54**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P13487
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: AXSW32511E4W54
Description: RSA RECESSED LED WALL WASH FIXTURE WITH FIXED BRACKET AT 15 DEGREE (Y25823-2-31), 3000K LED LIGHT ENGINE, 25 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

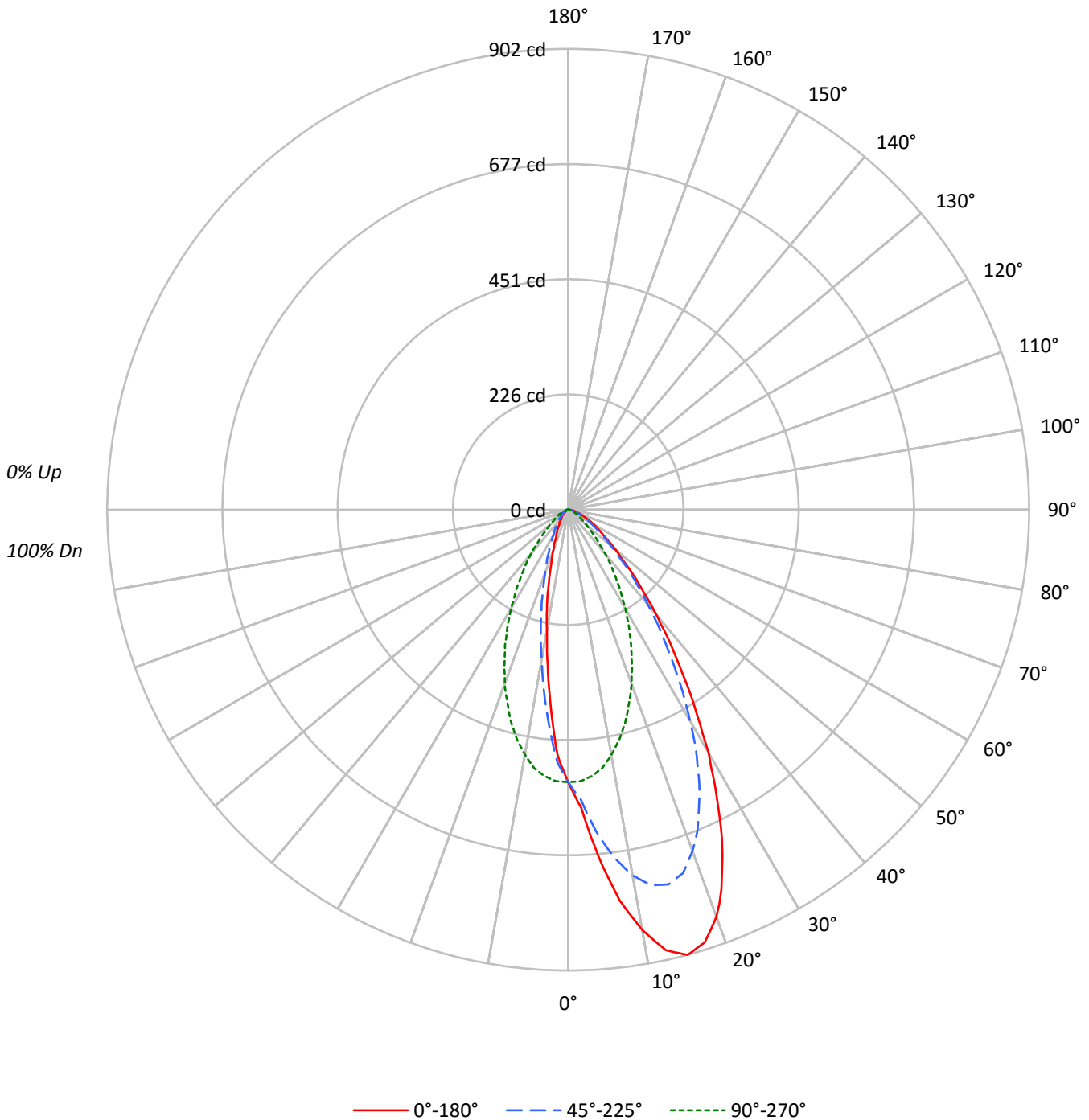
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 596.3 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 0.81 / 0.92
Luminous Opening: Rectangular (W 0.29' x L: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 21.1
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

TEST NUMBER: P13487
CATALOG NUMBER: AXSW32511E4W54

Luminous Intensity Polar Plot





TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

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	102	103	101	99	99	97	96	95	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	67441	67441	67441
5°	86497	66555	49408
10°	107283	62571	30707
15°	118157	56458	18994
20°	114184	48878	11580
25°	99403	40766	7679
30°	80212	32728	5406
35°	60087	25178	4325
40°	44267	18830	3634
45°	32209	13063	3579
50°	23622	9449	2362
55°	17648	7059	1985
60°	14678	5567	1771
65°	11078	4491	1198
70°	9619	4439	740
75°	6844	2444	489
80°	8015	2915	729
85°	5807	0	0



TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	8.4
10°-20°	132.9	22.3
20°-30°	156.0	26.2
30°-40°	119.8	20.1
40°-50°	70.4	11.8
50°-60°	37.0	6.2
60°-70°	19.7	3.3
70°-80°	8.2	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°	338.9	56.8
0°-40°	458.7	76.9
0°-60°	566.1	94.9
0°-90°	596.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	533	533	533	533	533	
5°	681	633	524	425	389	70
15°	902	759	431	202	145	249
25°	712	608	292	88	55	322
35°	389	349	163	45	28	245
45°	180	166	73	26	20	141
55°	80	71	32	12	9	74
65°	37	32	15	8	4	39
75°	14	11	5	0	1	17
85°	4	2	0	1	0	5
90°	0	0	0	0	0	



TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	55°
0°	533	533	533	533	533	533	533	533	533	533	533
2.5°	584	583	581	581	580	579	576	573	570	568	559
5°	681	678	677	674	671	665	657	650	642	633	611
7.5°	771	766	763	758	749	742	730	717	702	686	651
10°	835	835	830	824	813	801	786	768	748	727	679
12.5°	883	882	878	867	856	842	822	803	778	753	694
15°	902	901	894	885	873	856	836	814	789	759	694
17.5°	888	885	881	870	861	843	823	800	772	746	676
20°	848	845	840	832	822	807	788	766	740	711	644
21°	826	823	818	810	800	786	767	745	722	693	627
22°	800	801	795	786	777	764	746	725	703	676	613
23°	770	771	766	759	748	736	720	700	679	652	591
24°	742	741	735	729	720	709	693	676	656	630	573
25°	712	711	706	704	691	682	669	650	630	608	553
26°	678	678	674	668	660	650	638	622	605	583	532
27°	644	644	641	635	628	618	608	593	575	556	507
28°	612	610	607	603	598	588	577	565	548	533	484
29°	577	577	574	569	564	557	546	534	521	504	460
30°	549	543	541	537	533	526	516	505	492	476	436
31°	510	509	507	502	499	492	484	474	462	449	411
32°	479	479	476	473	469	462	456	447	437	424	389
33°	449	448	446	444	440	435	427	420	410	398	368
34°	418	420	416	415	410	405	399	392	382	372	344
35°	389	391	391	386	383	380	373	367	359	349	323
36°	361	362	361	358	354	350	345	343	333	324	300
37°	338	338	337	335	332	329	327	319	312	304	282
38°	314	314	313	312	308	307	302	297	292	284	264
39°	288	290	289	286	284	281	278	274	269	261	243
40°	268	267	267	265	264	263	258	254	250	243	227
42.5°	219	219	220	218	217	215	212	209	205	202	187
45°	180	180	180	179	178	176	175	172	169	166	153
47.5°	143	144	144	143	142	141	140	137	135	131	120
50°	120	120	119	118	118	117	116	114	112	108	98
52.5°	96	96	97	96	98	93	94	93	90	90	76
55°	80	81	80	80	80	78	78	77	75	71	62
57.5°	68	68	68	68	68	68	66	65	62	59	51
60°	58	55	57	56	56	56	54	54	52	47	40
62.5°	48	47	48	47	52	48	46	45	42	42	33
65°	37	39	39	39	39	39	37	37	34	32	27
67.5°	31	32	32	32	32	33	33	30	28	25	21
70°	26	28	25	26	25	27	28	24	22	20	18
72.5°	20	21	20	20	21	22	20	20	17	18	13
75°	14	17	14	16	14	15	16	14	12	11	10
77.5°	13	14	15	15	14	13	13	12	11	10	9
80°	11	9	10	9	11	10	8	9	7	7	6



TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	55°
82.5°	8	7	7	7	8	7	6	6	6	6	4
85°	4	5	4	3	5	4	3	3	3	2	2
87.5°	2	2	2	2	2	3	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

CANDELA DISTRIBUTION (continued):

	65°	75°	85°	90°	95°	105°	115°	125°	135°	140°	145°
0°	533	533	533	533	533	533	533	533	533	533	533
2.5°	552	546	536	532	527	517	510	501	494	491	488
5°	587	565	538	524	511	487	464	444	425	418	411
7.5°	615	571	530	510	488	451	416	386	361	348	338
10°	626	570	513	487	460	410	367	330	298	285	274
12.5°	629	561	493	461	432	373	322	280	248	233	221
15°	621	544	470	431	397	333	278	236	202	189	179
17.5°	599	517	436	396	361	294	238	195	163	152	141
20°	568	485	403	363	323	257	203	162	132	121	111
21°	553	471	387	346	310	243	190	151	121	110	101
22°	539	457	374	334	300	231	178	140	114	104	94
23°	520	441	358	318	282	217	165	129	106	94	86
24°	502	424	343	304	267	207	155	119	96	86	78
25°	485	408	330	292	256	194	147	113	88	80	75
26°	465	391	314	276	242	182	136	104	83	74	68
27°	444	372	300	263	228	170	126	95	75	67	62
28°	427	357	284	250	217	162	119	89	70	64	59
29°	406	342	270	235	204	151	110	83	65	58	54
30°	384	321	255	224	194	142	102	77	58	55	48
31°	363	302	241	209	180	130	94	69	54	48	44
32°	344	288	227	197	170	122	88	65	52	46	43
33°	324	272	215	187	161	116	84	62	50	44	40
34°	303	254	200	173	150	107	77	57	45	41	37
35°	285	240	190	163	144	100	74	56	45	39	36
36°	266	222	175	152	128	94	65	49	38	34	32
37°	250	210	166	142	122	90	64	48	37	34	32
38°	235	197	155	133	113	82	60	46	37	33	30
39°	218	181	142	123	104	75	54	41	33	30	29
40°	202	169	132	114	99	69	51	39	31	31	27
42.5°	166	137	105	90	78	57	42	33	27	25	24
45°	135	109	84	73	64	48	36	29	26	23	21
47.5°	103	82	65	56	50	38	27	21	17	16	15
50°	82	67	54	48	42	33	26	22	18	16	16
52.5°	62	52	42	37	32	27	20	16	13	13	11
55°	51	42	35	32	28	23	19	15	12	12	11
57.5°	45	37	31	27	27	21	21	17	17	12	12
60°	33	28	24	22	21	18	15	13	11	10	8
62.5°	28	24	21	20	21	15	13	11	9	10	7
65°	23	21	17	15	15	13	11	8	8	6	6
67.5°	18	16	14	13	14	11	12	10	7	5	5
70°	14	11	11	12	9	8	7	6	4	2	4
72.5°	11	10	9	7	7	7	6	4	2	3	2
75°	7	6	7	5	4	3	2	1	0	0	1
77.5°	7	6	6	5	6	4	4	4	3	1	3
80°	4	4	3	4	4	3	1	1	1	2	2



TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

CANDELA DISTRIBUTION (continued):

	65°	75°	85°	90°	95°	105°	115°	125°	135°	140°	145°
82.5°	3	3	2	3	2	2	2	1	2	2	1
85°	2	1	0	0	1	1	1	4	1	1	0
87.5°	1	1	0	1	0	1	0	0	3	1	1
90°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

CANDELA DISTRIBUTION (continued):

	150°	155°	160°	165°	170°	175°	180°
0°	533	533	533	533	533	533	533
2.5°	485	483	481	480	480	480	480
5°	408	399	396	392	391	389	389
7.5°	333	324	318	315	309	308	307
10°	265	256	251	246	241	240	239
12.5°	211	205	196	192	188	187	191
15°	168	161	154	149	147	145	145
17.5°	132	125	120	115	113	113	110
20°	106	99	94	91	87	87	86
21°	95	90	86	82	80	79	77
22°	89	83	79	77	74	73	76
23°	79	74	72	68	66	64	65
24°	73	68	65	63	61	59	58
25°	69	64	60	60	60	56	55
26°	63	59	57	54	53	52	51
27°	58	55	52	50	48	48	47
28°	53	51	49	46	45	45	44
29°	49	48	44	44	42	41	40
30°	47	45	41	41	39	37	37
31°	43	39	36	35	34	35	34
32°	40	38	36	33	33	33	33
33°	38	36	34	32	32	31	32
34°	35	33	31	29	29	28	30
35°	33	32	30	29	28	28	28
36°	29	28	27	25	25	25	24
37°	31	28	27	26	26	25	25
38°	28	27	26	26	25	24	24
39°	26	25	24	23	21	21	21
40°	24	24	23	22	21	21	22
42.5°	21	21	19	19	19	18	18
45°	20	19	18	18	17	17	20
47.5°	15	13	13	12	13	12	10
50°	15	15	13	13	12	12	12
52.5°	11	11	11	10	8	10	10
55°	11	10	8	9	9	8	9
57.5°	10	10	10	10	9	9	8
60°	8	7	7	6	7	7	7
62.5°	8	9	7	7	6	6	6
65°	5	6	4	4	6	4	4
67.5°	4	5	5	4	3	4	4
70°	4	1	2	4	2	4	2
72.5°	2	3	3	2	2	2	2
75°	0	0	1	1	0	0	1
77.5°	2	3	2	2	2	4	2
80°	0	1	3	2	1	3	1



TEST NUMBER: P13487

CATALOG NUMBER: AXSW32511E4W54

CANDELA DISTRIBUTION (continued):

	150°	155°	160°	165°	170°	175°	180°
82.5°	1	1	2	3	2	1	1
85°	1	1	2	1	1	0	0
87.5°	0	1	0	1	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)