

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: P22072

Luminaire Tested: **ARWW304011E1TW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P22072  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: RSA  
Catalog Number: ARWW304011E1TW  
Description: RSA 130 MILLIMETER LED ROUND LENSED WALL WASH FIXTURE WITH SEMI  
Light Source: (1) SMT 3000K LED  
SLM-1100  
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER  
NV2I5AE40205

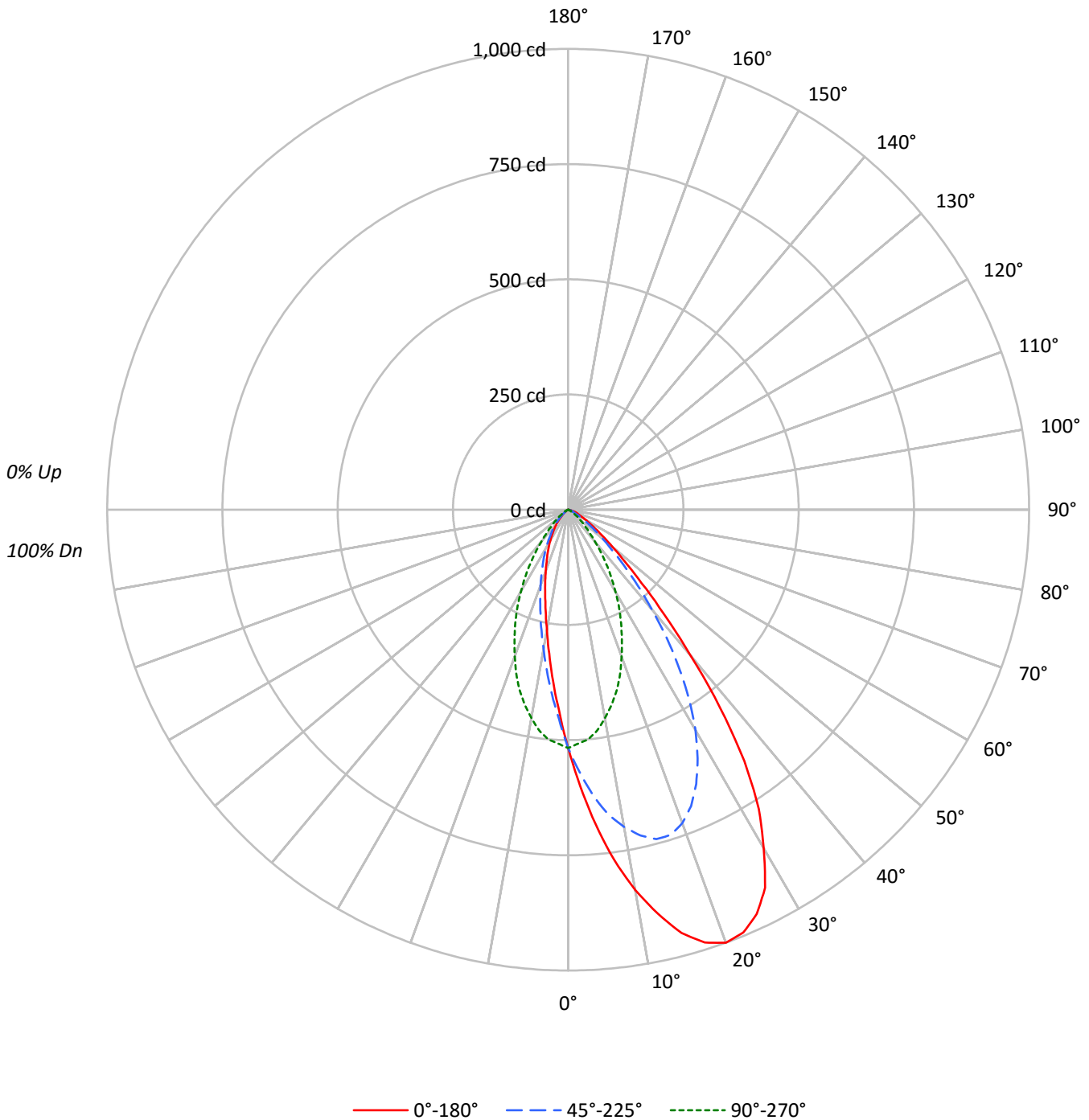
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 636.5 lumens  
Efficiency: N/A  
Efficacy: 33.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.78 / 1.01  
Luminous Opening: Vertical Cylinder (Dia: 0.29' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 19.3  
Input Voltage (V): NR  
Input Current (Ain): 0.16309  
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: 25 FT

TEST NUMBER: P22072  
CATALOG NUMBER: ARWW304011E1TW

### 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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76				76
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70				70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64				64
6	84	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	61	59				59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54				54
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47				47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43				43

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

	0°	90°	180°
0°	83291	83291	83291
5°	106858	77885	58258
10°	127290	69721	40253
15°	142004	60624	28670
20°	147938	50151	21007
25°	142967	40025	15656
30°	125995	30459	11589
35°	100319	21691	8285
40°	63571	13853	5695
45°	35685	8723	3489
50°	20443	5276	1978
55°	12457	2941	1211
60°	7890	1468	734
65°	5119	984	394
70°	3855	428	214
75°	2367	237	237
80°	1068	267	0
85°	309	309	0



TEST NUMBER: P22072

CATALOG NUMBER: ARWW304011E1TW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.7	7.7
10°-20°	136.7	21.5
20°-30°	182.3	28.6
30°-40°	153.5	24.1
40°-50°	75.1	11.8
50°-60°	27.0	4.2
60°-70°	9.0	1.4
70°-80°	3.4	0.5
80°-90°	0.7	0.1
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°	367.8	57.8
0°-40°	521.3	81.9
0°-60°	623.4	97.9
0°-90°	636.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	517	517	517	517	517	
5°	686	623	500	403	374	70
15°	951	740	406	232	192	268
25°	968	657	271	130	106	439
35°	666	419	144	67	55	404
45°	225	170	55	28	22	184
55°	72	52	17	8	7	68
65°	26	13	5	2	2	27
75°	10	5	1	1	1	11
85°	1	0	1	1	0	1
90°	0	0	0	0	0	



TEST NUMBER: P22072

CATALOG NUMBER: ARWW304011E1TW

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	517	517	517	517	517	517	517	517	517	517	517
2.5°	600	597	597	596	596	595	594	593	592	590	570
5°	686	683	683	682	680	678	675	674	671	667	623
7.5°	767	764	764	762	760	756	752	749	744	739	667
10°	838	834	832	830	827	822	817	811	804	797	699
12.5°	898	896	894	891	887	881	874	866	858	847	724
15°	951	949	947	943	938	931	922	913	903	890	740
17.5°	985	984	981	977	971	963	953	941	929	914	740
20°	1000	998	995	990	983	973	962	949	934	918	724
22.5°	993	992	989	983	975	965	953	938	922	904	696
25°	968	967	964	957	950	938	926	911	894	875	657
27.5°	925	919	916	909	901	890	878	862	845	828	608
30°	848	849	845	839	831	821	809	794	777	762	552
32.5°	770	763	759	753	746	737	725	712	697	684	488
35°	666	663	660	654	642	634	624	612	599	590	419
37.5°	541	539	536	531	520	515	508	499	488	483	352
40°	413	405	403	406	398	394	390	384	377	376	281
42.5°	307	305	303	302	295	293	291	287	283	283	223
45°	225	224	223	221	217	215	214	211	208	209	170
47.5°	166	165	164	163	160	159	158	156	154	154	128
50°	124	123	122	122	119	118	117	116	115	115	96
52.5°	94	93	93	92	90	89	88	87	86	86	71
55°	72	71	71	71	69	68	67	66	66	65	52
57.5°	56	55	55	54	54	53	52	51	50	49	37
60°	43	42	42	41	40	40	39	38	37	36	25
62.5°	32	32	31	31	31	30	29	28	27	27	16
65°	26	26	26	25	25	24	24	23	22	22	13
67.5°	22	22	22	22	21	21	20	20	19	18	11
70°	18	18	18	18	18	17	17	16	16	15	9
72.5°	14	14	13	13	13	13	13	12	12	11	7
75°	10	9	9	9	9	9	9	9	8	8	5
77.5°	6	6	6	6	6	6	6	6	5	5	3
80°	4	4	4	4	3	4	3	3	3	3	2
82.5°	2	2	2	2	2	2	2	2	2	2	1
85°	1	1	1	1	1	1	1	1	1	1	0
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



TEST NUMBER: P22072

CATALOG NUMBER: ARWW304011E1TW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	517	517	517	517	517	517
2.5°	541	508	478	455	440	439
5°	562	500	444	403	379	374
7.5°	575	483	407	353	322	315
10°	576	459	367	307	273	265
12.5°	572	434	332	268	235	225
15°	561	406	298	232	202	192
17.5°	540	374	264	202	174	166
20°	509	339	232	175	149	142
22.5°	473	304	203	151	128	122
25°	432	271	177	130	111	106
27.5°	390	239	152	112	95	91
30°	345	205	129	96	82	78
32.5°	301	174	108	81	69	66
35°	255	144	88	67	58	55
37.5°	213	116	72	56	48	45
40°	172	90	58	45	39	37
42.5°	136	71	47	36	31	29
45°	103	55	37	28	23	22
47.5°	77	42	29	21	17	16
50°	57	32	21	15	12	12
52.5°	42	24	15	11	9	9
55°	30	17	11	8	7	7
57.5°	20	11	8	6	5	5
60°	13	8	5	4	4	4
62.5°	9	6	4	3	3	2
65°	8	5	3	2	2	2
67.5°	6	3	2	2	1	1
70°	5	2	1	1	1	1
72.5°	3	2	1	1	1	1
75°	2	1	1	1	1	1
77.5°	2	1	1	1	1	1
80°	1	1	1	1	0	0
82.5°	1	1	1	1	0	0
85°	1	1	1	1	0	0
87.5°	0	1	1	0	0	0
90°	0	0	0	0	0	0

(END OF REPORT)