

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: P13476

Luminaire Tested: **ASAS302511E4TW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P13476  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: RSA  
Catalog Number: ASAS302511E4TW  
Description: RSA RECESSED LED SQUARE FIXTURE WITH DOWNLIGHT, ADJUSTABLE  
BRACKET AT 0 DEGREE, 3000K LED LIGHT ENGINE, 25 DEGREE  
REFLECTOR, WHITE TRIM WITH CLEAR GLASS LENS.  
Light Source: (1) PHILIPS FORTIMO SLM 3000K LED  
87182911 8708000  
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC DRIVER  
XR025C100V036XPM1

**Summary**

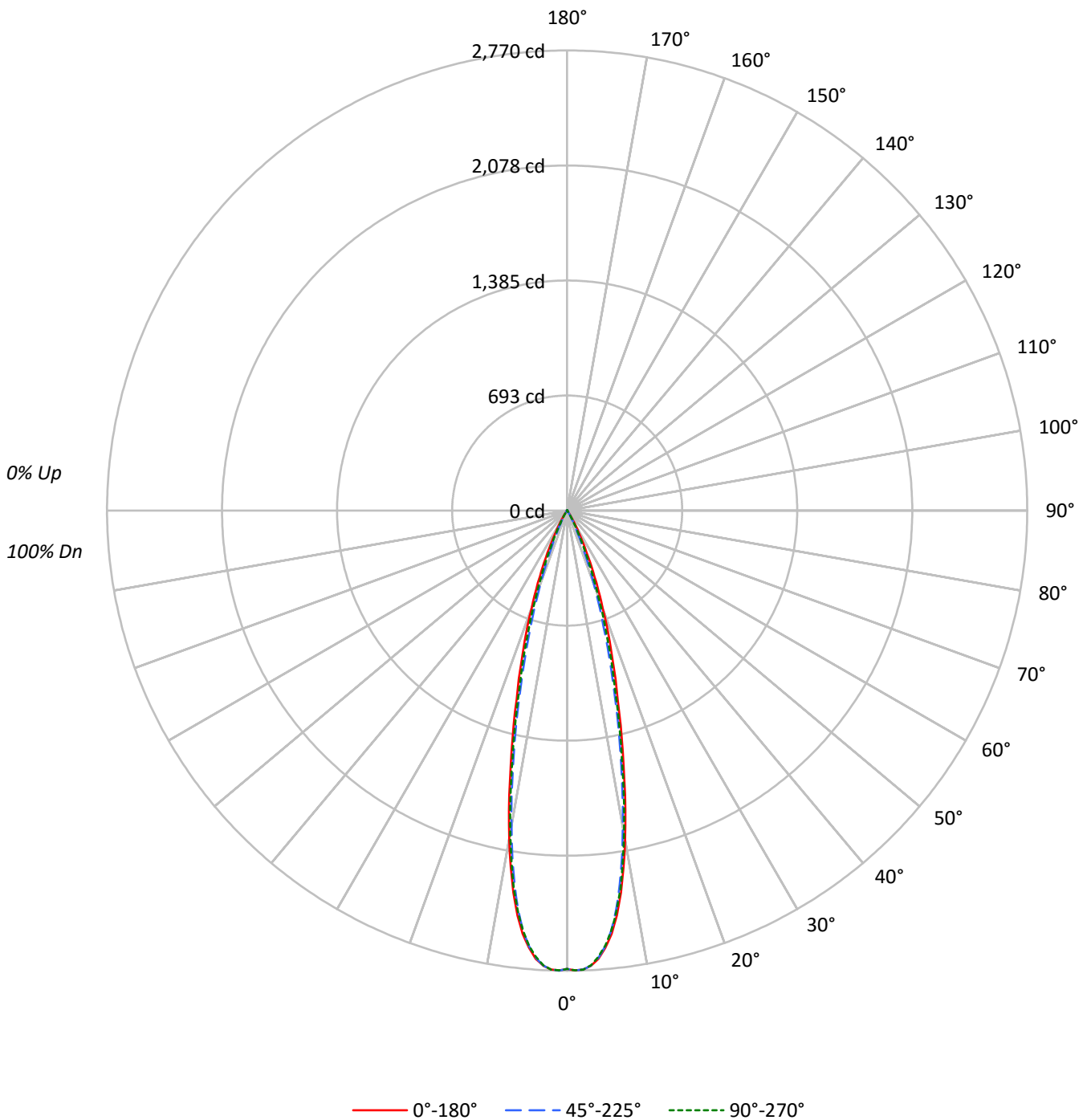
Lumens per Lamp: N/A  
Luminaire Lumens: 649.3 lumens  
Efficiency: N/A  
Efficacy: 30.9 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.45 / 0.43  
Luminous Opening: Rectangular (W 0.31' x L: 0.31' x H: 0')  
CIE Type: Direct

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	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	100	100	100	100	100		
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	96	95	94	93	92		
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	93	92	91	90	89		
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	94	92	91	91	90	89	88	87	86		
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	88	87	86	85	84	83		
5	102	96	92	89	100	95	92	89	94	90	88	92	89	87	91	88	87	86	86	85	84	83	82	81		
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	83	82	81	80	79	78		
7	96	90	86	83	95	90	86	83	88	85	83	87	84	82	86	84	82	81	81	80	79	78	77	76		
8	94	87	83	81	93	87	83	81	86	83	80	85	82	80	84	82	80	79	79	78	77	76	75	74		
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	76	75	74	73	72		
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75	75	74	73	72	71	70		

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

	0°	45°	90°
0°	304104	304104	304104
5°	292320	291103	290882
10°	224629	216235	220824
15°	134194	120729	127348
20°	73662	54660	64044
25°	33810	17634	23715
30°	11200	5091	6873
35°	3364	1480	1884
40°	863	432	576
45°	156	156	0
50°	171	0	171
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	967	645	322
75°	0	0	426
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.8	35.4
10°-20°	306.8	47.3
20°-30°	97.8	15.1
30°-40°	11.6	1.8
40°-50°	1.4	0.2
50°-60°	0.4	0.1
60°-70°	0.7	0.1
70°-80°	0.7	0.1
80°-90°	0.1	0.0
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°	634.4	97.7
0°-40°	646.0	99.5
0°-60°	647.9	99.8
0°-90°	649.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2759	2759	2759	2759	2759	
5°	2642	2636	2631	2629	2629	232
15°	1176	1121	1058	1080	1116	330
25°	278	197	145	165	195	135
35°	25	17	11	12	14	20
45°	1	1	1	1	0	2
55°	0	0	0	0	0	0
65°	0	0	0	1	0	0
75°	0	0	0	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2759	2759	2759	2759	2759
1°	2768	2768	2770	2768	2768
2°	2764	2765	2764	2765	2765
3°	2744	2743	2743	2741	2741
4°	2705	2702	2700	2696	2693
5°	2642	2636	2631	2629	2629
6°	2561	2556	2543	2546	2543
7°	2456	2442	2422	2429	2433
8°	2323	2304	2274	2286	2301
9°	2174	2147	2108	2122	2143
10°	2007	1972	1932	1943	1973
11°	1837	1791	1751	1763	1793
12.5°	1566	1524	1473	1488	1519
15°	1176	1121	1058	1080	1116
17.5°	876	798	725	751	800
20°	628	547	466	497	546
22.5°	432	343	268	298	344
25°	278	197	145	165	195
27.5°	159	108	74	86	104
30°	88	58	40	46	54
32.5°	47	31	19	23	27
35°	25	17	11	12	14
37.5°	12	7	4	5	7
40°	6	4	3	3	4
42.5°	4	3	2	2	3
45°	1	1	1	1	0
47.5°	1	3	1	2	2
50°	1	1	0	0	1
52.5°	1	3	0	0	1
55°	0	0	0	0	0
57.5°	0	0	1	1	0
60°	0	0	0	0	0
62.5°	0	1	1	2	0
65°	0	0	0	1	0
67.5°	0	0	2	0	1
70°	3	3	2	0	1
72.5°	1	1	1	2	1
75°	0	0	0	1	1
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	1	0	0	1
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)