

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: P22067

Luminaire Tested: **ARAC304011E1TW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22067
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: ARAC304011E1TW
Description: RSA 130 MILLIMETER LED ADJUSTABLE ROUND ACCENT FIXTURE WITH SPECULAR CLEAR ANGLE CUT REFLECTOR, CLEAR GLASS LENS AND 40 DEGREE LED
Light Source: (1) SMT 3000K LED
SLM-1100
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER
NV2I5AE40205

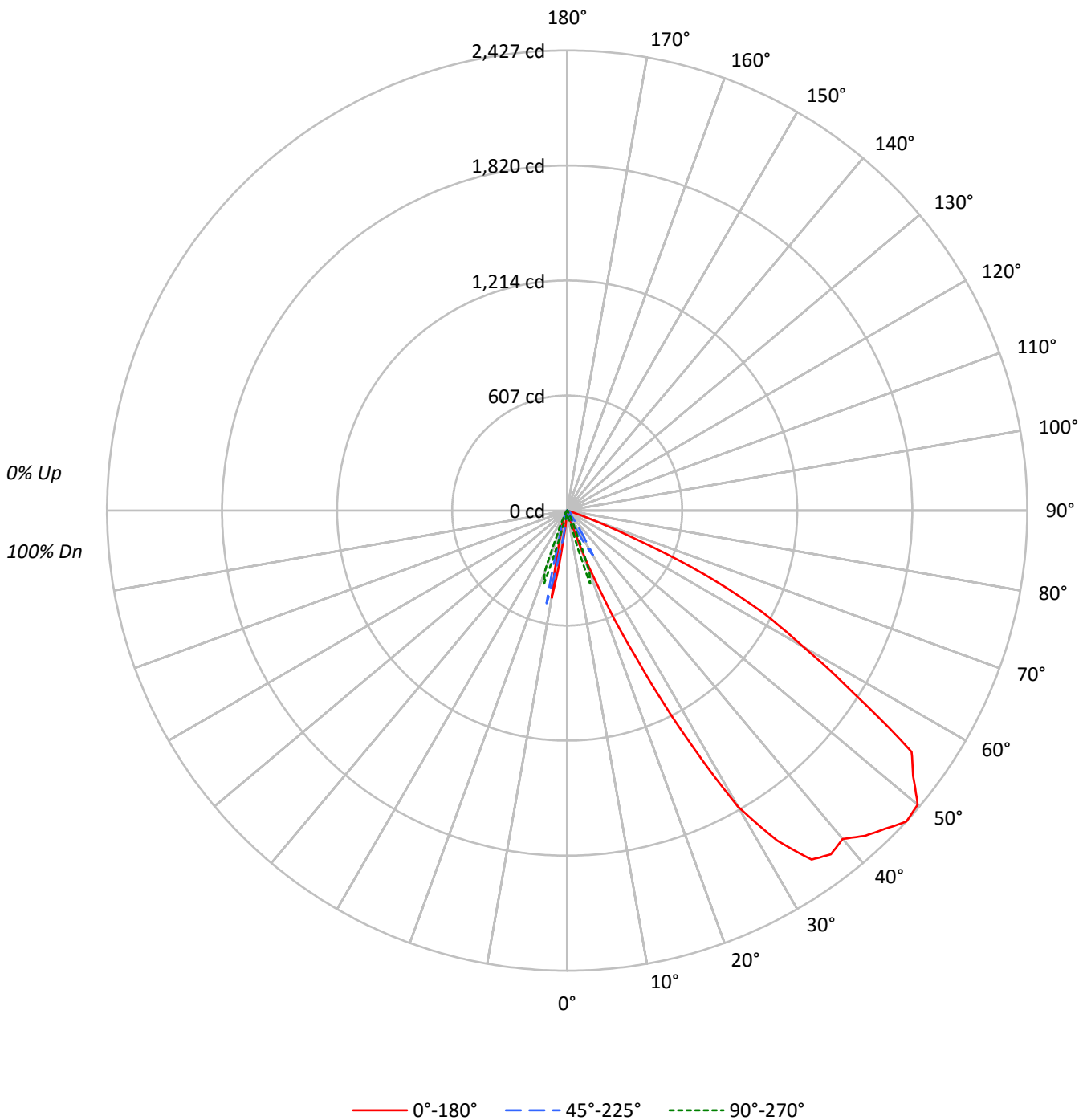
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 971.9 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 4.88 / 1.22 / 1.44
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 (A_{in}): 0.1628
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

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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	49	42	37	35
7	63	48	39	33	61	48	39	33	46	38	32	45	37	32	43	37	32	30
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	24	22
10	49	35	27	21	48	34	26	21	33	26	21	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3222	3222	3222
5°	3738	3583	5763
10°	3038	7747	70936
15°	3434	11199	17471
20°	27960	50447	11687
25°	123620	11372	2954
30°	267740	2972	1189
35°	338463	1356	603
40°	347868	616	0
45°	376358	317	0
50°	397815	330	0
55°	383742	173	0
60°	264209	183	0
65°	158494	197	0
70°	25700	214	0
75°	0	473	0
80°	0	534	0
85°	0	617	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.6
10°-20°	37.4	3.8
20°-30°	86.8	8.9
30°-40°	225.5	23.2
40°-50°	299.7	30.8
50°-60°	249.4	25.7
60°-70°	64.2	6.6
70°-80°	1.9	0.2
80°-90°	1.1	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°	130.1	13.4
0°-40°	355.5	36.6
0°-60°	904.6	93.1
0°-90°	971.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	24	26	23	29	37	2
15°	23	24	75	171	117	14
25°	837	48	77	30	20	441
35°	2247	91	9	5	4	1360
45°	2373	27	2	2	0	1834
55°	2218	17	1	2	0	1838
65°	805	1	1	2	0	770
75°	0	1	2	2	0	18
85°	0	1	2	2	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	20	20	20	20	20	20	20	20	20	20	20
2.5°	22	22	22	22	22	22	22	23	23	23	23
5°	24	25	25	25	25	26	26	26	26	26	26
7.5°	22	22	23	23	23	23	23	24	24	25	26
10°	20	20	21	21	22	22	22	22	23	22	24
12.5°	23	23	23	24	25	25	25	25	24	23	24
15°	23	22	24	25	25	25	25	24	24	24	24
17.5°	24	24	24	24	24	23	23	23	24	25	27
20°	189	180	173	161	142	117	92	68	48	34	43
22.5°	473	454	436	415	388	345	302	253	203	151	44
25°	837	831	816	760	706	637	563	488	424	343	48
27.5°	1315	1311	1292	1214	1153	1078	952	817	699	569	188
30°	1802	1776	1735	1657	1591	1475	1343	1214	1051	852	272
32.5°	2064	2050	2027	1979	1907	1803	1687	1564	1426	1253	159
35°	2247	2240	2230	2219	2186	2124	2023	1885	1731	1539	91
37.5°	2285	2288	2297	2301	2295	2259	2181	2042	1865	1669	45
40°	2260	2247	2238	2250	2261	2267	2228	2124	1964	1763	29
42.5°	2326	2307	2264	2243	2243	2245	2218	2136	1987	1793	28
45°	2373	2367	2315	2259	2241	2224	2179	2077	1931	1753	27
47.5°	2427	2417	2358	2306	2290	2244	2176	2049	1888	1707	27
50°	2413	2391	2336	2300	2279	2239	2133	1988	1799	1598	24
52.5°	2300	2284	2251	2218	2179	2115	2002	1846	1674	1431	22
55°	2218	2214	2188	2140	2074	1968	1798	1584	1314	938	17
57.5°	1790	1796	1761	1685	1555	1421	1288	1116	876	557	11
60°	1440	1439	1403	1328	1237	1141	1013	789	516	253	8
62.5°	1160	1156	1107	1038	962	820	633	401	184	62	4
65°	805	804	751	683	565	416	251	109	38	15	1
67.5°	393	405	348	292	203	112	52	19	9	7	1
70°	120	115	99	64	37	17	8	6	5	5	1
72.5°	11	12	6	4	3	2	1	0	0	0	1
75°	0	0	0	0	0	0	0	0	0	0	1
77.5°	0	0	0	0	0	0	0	0	0	0	1
80°	0	0	0	0	0	0	0	0	0	0	1
82.5°	0	0	0	0	0	0	0	0	0	0	1
85°	0	0	0	0	0	0	0	0	0	0	1
87.5°	0	0	0	0	0	0	0	0	0	0	1
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	20	20	20	20	20	20
2.5°	22	21	22	22	21	22
5°	25	23	24	29	34	37
7.5°	26	26	50	79	128	161
10°	27	51	68	242	432	467
12.5°	32	54	235	501	304	245
15°	60	75	507	171	121	117
17.5°	49	404	169	104	99	100
20°	68	341	99	93	84	79
22.5°	311	126	80	58	39	35
25°	334	77	39	30	26	20
27.5°	146	34	23	20	15	11
30°	58	20	15	17	12	8
32.5°	35	13	10	11	12	13
35°	25	9	6	5	5	4
37.5°	21	7	4	3	2	1
40°	19	4	3	2	1	0
42.5°	15	2	2	2	1	0
45°	11	2	2	2	0	0
47.5°	7	2	2	2	0	0
50°	3	2	2	2	0	0
52.5°	2	2	2	2	0	0
55°	1	1	2	2	0	0
57.5°	1	1	2	2	0	0
60°	1	1	2	1	0	0
62.5°	1	1	2	2	0	0
65°	1	1	2	2	0	0
67.5°	1	1	2	2	0	0
70°	1	1	2	2	0	0
72.5°	1	2	2	2	0	0
75°	1	2	2	2	0	0
77.5°	1	2	2	2	0	0
80°	1	2	2	2	0	0
82.5°	2	2	2	2	0	0
85°	2	2	2	2	0	0
87.5°	2	2	3	2	1	0
90°	0	0	0	0	0	0

(END OF REPORT)