

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: P22046

Luminaire Tested: **ARDR301511E1TW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22046
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: ARDR301511E1TW
Description: RSA 130 MILLIMETER LED ROUND FIXTURE WITH SPECULAR CLEAR
DOWNLIGHT REFLECTOR, CLEAR GLASS LENS AND 15 DEGREE LED OPTIC.
Light Source: (1) SMT 3000K LED
SLM-1100
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER
NV2I5AE40205

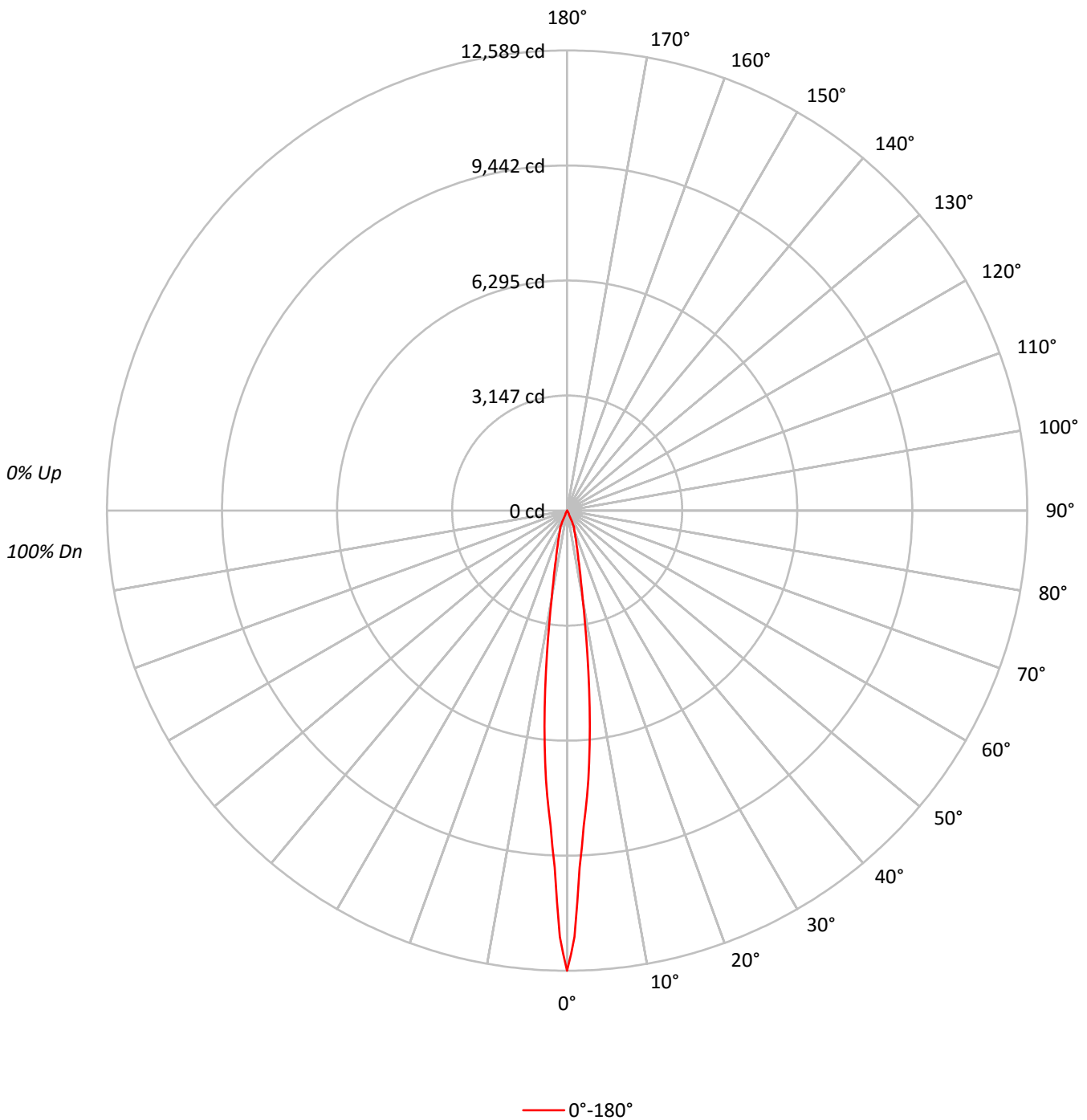
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.2 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.22
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): 0.1629
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98	98	98	98
2	113	109	107	105	111	108	106	104	105	103	101	102	100	99	99	98	97	96	96	96	96
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94	94	94	94
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92
5	105	100	96	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90	90	90	90
6	103	97	94	92	101	97	94	91	96	93	91	94	92	90	93	91	90	89	89	89	89
7	101	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	87	87	87
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	86	86	86
9	97	91	88	86	96	91	88	86	90	87	85	90	87	85	89	87	85	84	84	84	84
10	95	90	86	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	83	83	83

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	2028136
5°	1079175
10°	373667
15°	152606
20°	85064
25°	19052
30°	1932
35°	603
40°	308
45°	159
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.3	55.3
10°-20°	307.8	33.3
20°-30°	101.4	11.0
30°-40°	3.1	0.3
40°-50°	0.6	0.1
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	920.5	99.6
0°-40°	923.6	99.9
0°-60°	924.2	100.0
0°-90°	924.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12589	
5°	6928	511
15°	1022	308
25°	129	101
35°	4	3
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12589
1°	11661
2°	9771
3°	8638
4°	7830
5°	6928
6°	5935
7°	4912
8°	3950
9°	3127
10°	2460
11°	1976
12°	1629
13°	1372
14°	1177
15°	1022
17.5°	742
20°	575
22.5°	482
25°	129
27.5°	51
30°	13
32.5°	6
35°	4
37.5°	3
40°	2
42.5°	1
45°	1
47.5°	0
50°	0
52.5°	0
55°	0
57.5°	0
60°	0
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)