

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: P21965

Luminaire Tested: **ARDR304011E1TW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P21965
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: ARDR304011E1TW
Description: RSA 130 MILLIMETER LED ROUND FIXTURE WITH SPECULAR CLEAR
DOWNLIGHT REFLECTOR, CLEAR GLASS LENS AND 40 DEGREE LED OPTIC.
Light Source: (1) SMT 3000K LED
SLM-1100
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER
NV2I5AE40205

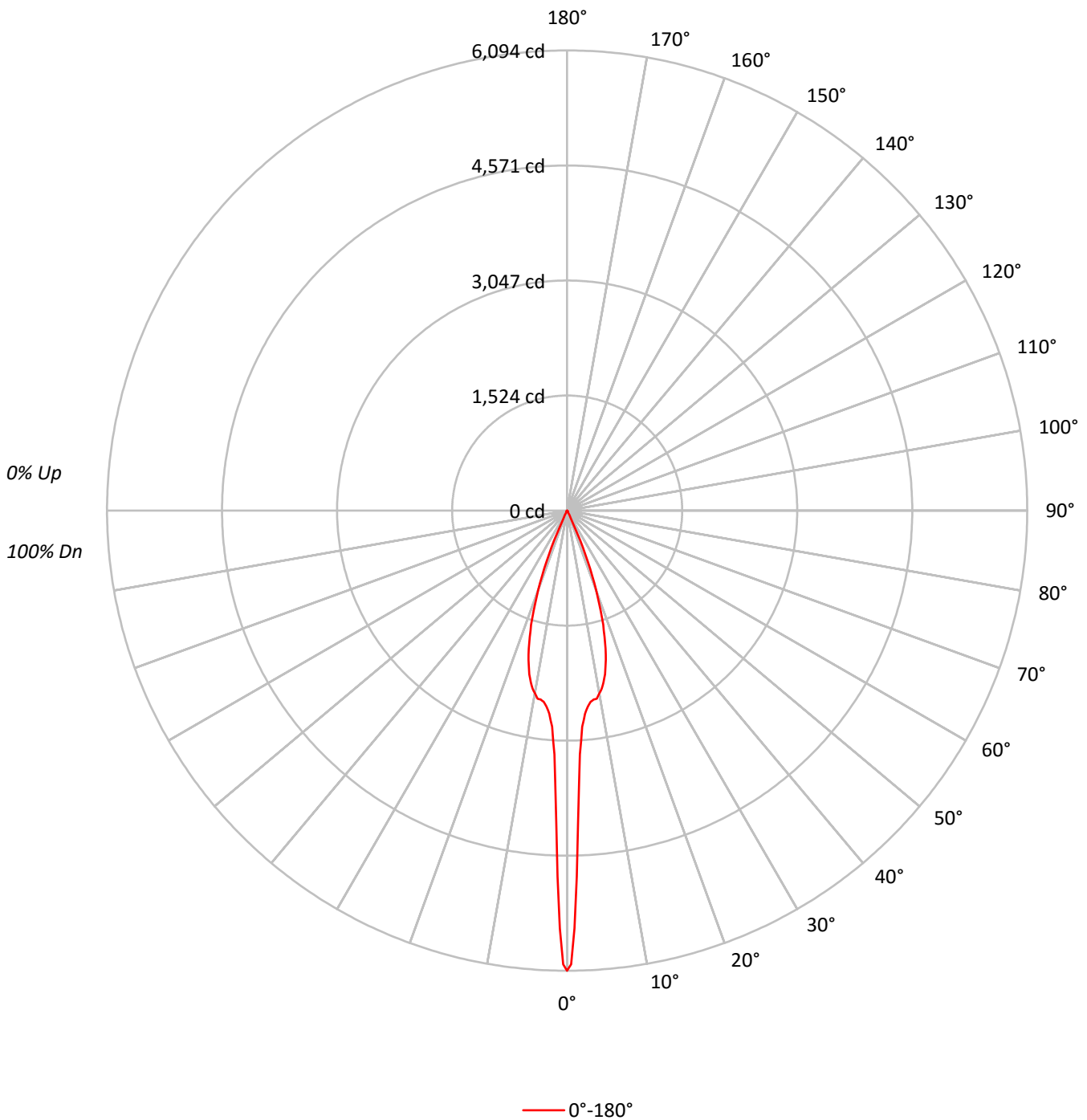
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 935.4 lumens
Efficiency: N/A
Efficacy: 48.7 lumens/watt
Spacing Criteria (0/90/45): 0.12 / 0.12 / 0.42
Luminous Opening: Vertical Cylinder (Dia: 0.29' x H: 0.1')
CIE Type: Direct

Input Watts (W): 19.2
Input Voltage (V): NR
Input Current (A_{in}): 0.16227
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	115	113	111	109	113	111	109	108	107	105	104		103	102	101		100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99		100	98	97		97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	94		97	95	93		95	93	92	90
4	104	99	95	92	103	98	94	92	96	93	91		94	92	90		92	90	89	87
5	101	95	91	88	100	95	91	88	93	90	87		91	89	86		90	88	86	85
6	98	92	88	85	97	91	87	85	90	87	84		89	86	84		88	85	83	82
7	95	89	85	82	94	88	85	82	87	84	81		86	83	81		85	83	81	80
8	93	86	82	79	92	86	82	79	85	81	79		84	81	78		83	80	78	77
9	90	84	79	77	89	83	79	77	82	79	76		82	78	76		81	78	76	75
10	88	81	77	74	87	81	77	74	80	77	74		79	76	74		79	76	74	73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	981767
5°	420891
10°	372907
15°	295207
20°	165246
25°	17132
30°	2080
35°	1808
40°	1539
45°	317
50°	165
55°	173
60°	183
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	28.1
10°-20°	521.3	55.7
20°-30°	139.8	15.0
30°-40°	8.0	0.9
40°-50°	2.0	0.2
50°-60°	0.9	0.1
60°-70°	0.1	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°	924.4	98.8
0°-40°	932.4	99.7
0°-60°	935.3	100.0
0°-90°	935.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6094	
5°	2702	263
15°	1977	521
25°	116	140
35°	12	8
45°	2	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6094
0.5°	6009
1°	5535
1.5°	4846
2°	4121
2.5°	3597
3°	3234
4°	2868
5°	2702
6°	2609
7°	2552
8°	2527
9°	2521
10°	2455
11°	2402
12°	2323
13°	2225
14°	2107
15°	1977
17.5°	1585
20°	1117
22.5°	636
25°	116
27.5°	26
30°	14
32.5°	12
35°	12
37.5°	15
40°	10
42.5°	2
45°	2
47.5°	1
50°	1
52.5°	1
55°	1
57.5°	1
60°	1
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)