

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: P22042

Luminaire Tested: **ARDR301011E1TW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P22042
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: ARDR301011E1TW
Description: RSA 130 MILLIMETER LED ROUND FIXTURE WITH SPECULAR CLEAR
DOWNLIGHT REFLECTOR, CLEAR GLASS LENS AND 10 DEGREE LED OPTIC.
Light Source: (1) SMT 3000K LED
SLM-1100
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER
NV2I5AE40205

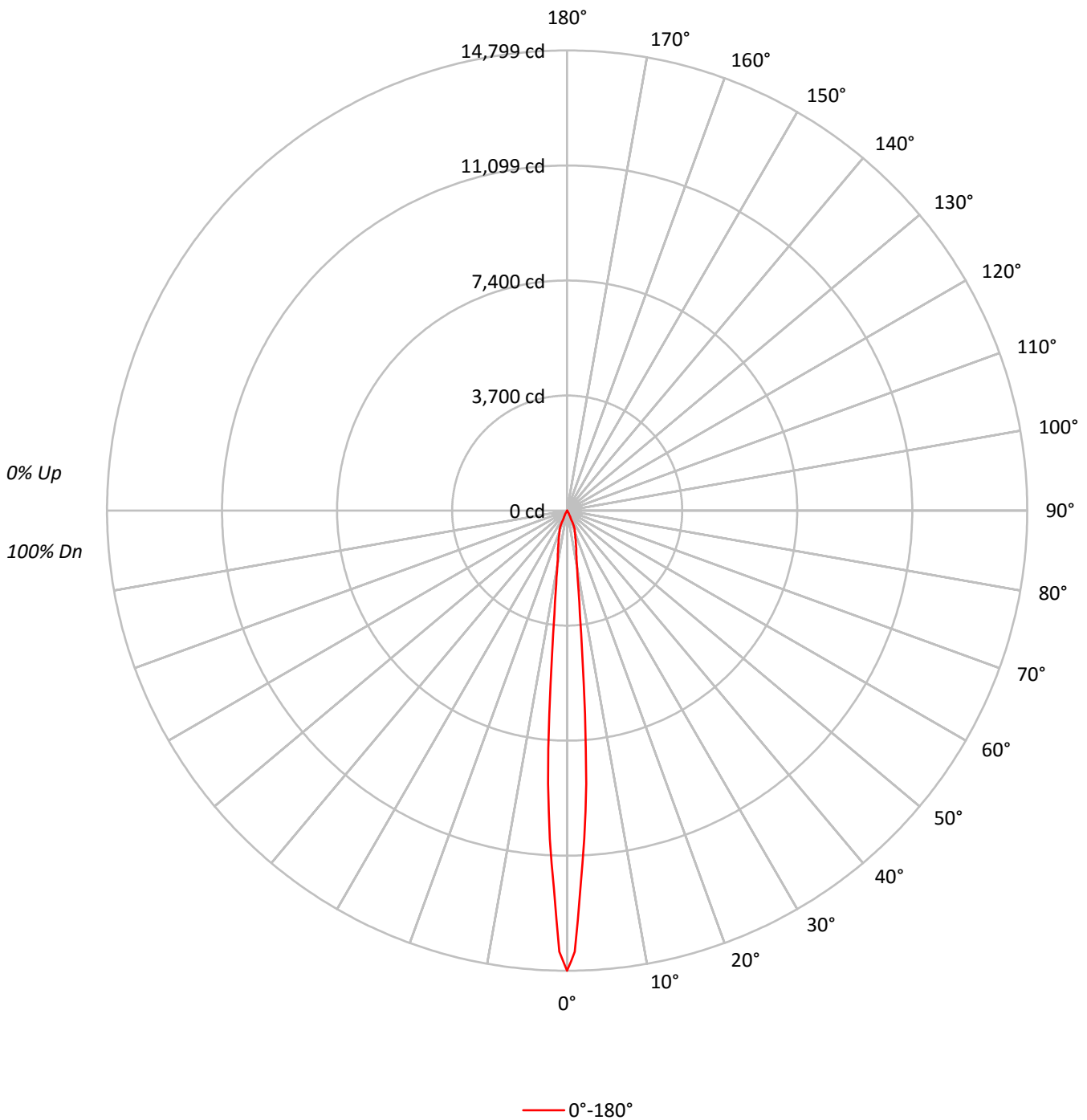
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 928.7 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 0.16 / 0.16 / 0.17
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}): 0.1624
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	114	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93
4	106	102	98	95	105	100	97	95	99	96	94	97	95	93	95	93	92	91
5	104	98	95	92	102	98	94	92	96	93	91	95	92	90	93	91	90	89
6	101	96	92	89	100	95	92	89	94	91	89	93	90	88	92	89	88	87
7	99	93	90	87	98	93	89	87	92	89	86	91	88	86	90	87	86	85
8	97	91	87	85	96	91	87	85	90	87	85	89	86	84	88	86	84	83
9	95	89	85	83	94	89	85	83	88	85	83	87	84	82	86	84	82	81
10	93	87	84	81	92	87	83	81	86	83	81	86	83	81	85	82	81	80

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2384175
5°	1023097
10°	278123
15°	161416
20°	106663
25°	38696
30°	1040
35°	452
40°	616
45°	159
50°	165
55°	173
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	49.8
10°-20°	307.1	33.1
20°-30°	154.3	16.6
30°-40°	2.7	0.3
40°-50°	1.0	0.1
50°-60°	0.5	0.1
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°	924.3	99.5
0°-40°	927.1	99.8
0°-60°	928.7	100.0
0°-90°	928.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	928.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14799	
5°	6568	463
15°	1081	307
25°	262	154
35°	3	3
45°	1	1
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14799
1°	14189
2°	12160
3°	10575
4°	8801
5°	6568
6°	4614
7°	3354
8°	2615
9°	2166
10°	1831
11°	1600
12°	1432
13°	1304
14°	1187
15°	1081
17.5°	861
20°	721
22.5°	625
25°	262
27.5°	175
30°	7
32.5°	4
35°	3
37.5°	5
40°	4
42.5°	1
45°	1
47.5°	1
50°	1
52.5°	1
55°	1
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)