

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: P21966

Luminaire Tested: **ARDR302511E1TW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P21966
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: RSA
Catalog Number: ARDR302511E1TW
Description: RSA 130 MILLIMETER LED FIXTURE WITH SPECULAR CLEAR
DOWNLIGHT REFLECTOR, CLEAR GLASS LENS AND 25 DEGREE LED OPTIC.
Light Source: (1) SMT 3000K LED
SLM-1100
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER
NV2I5AE40205

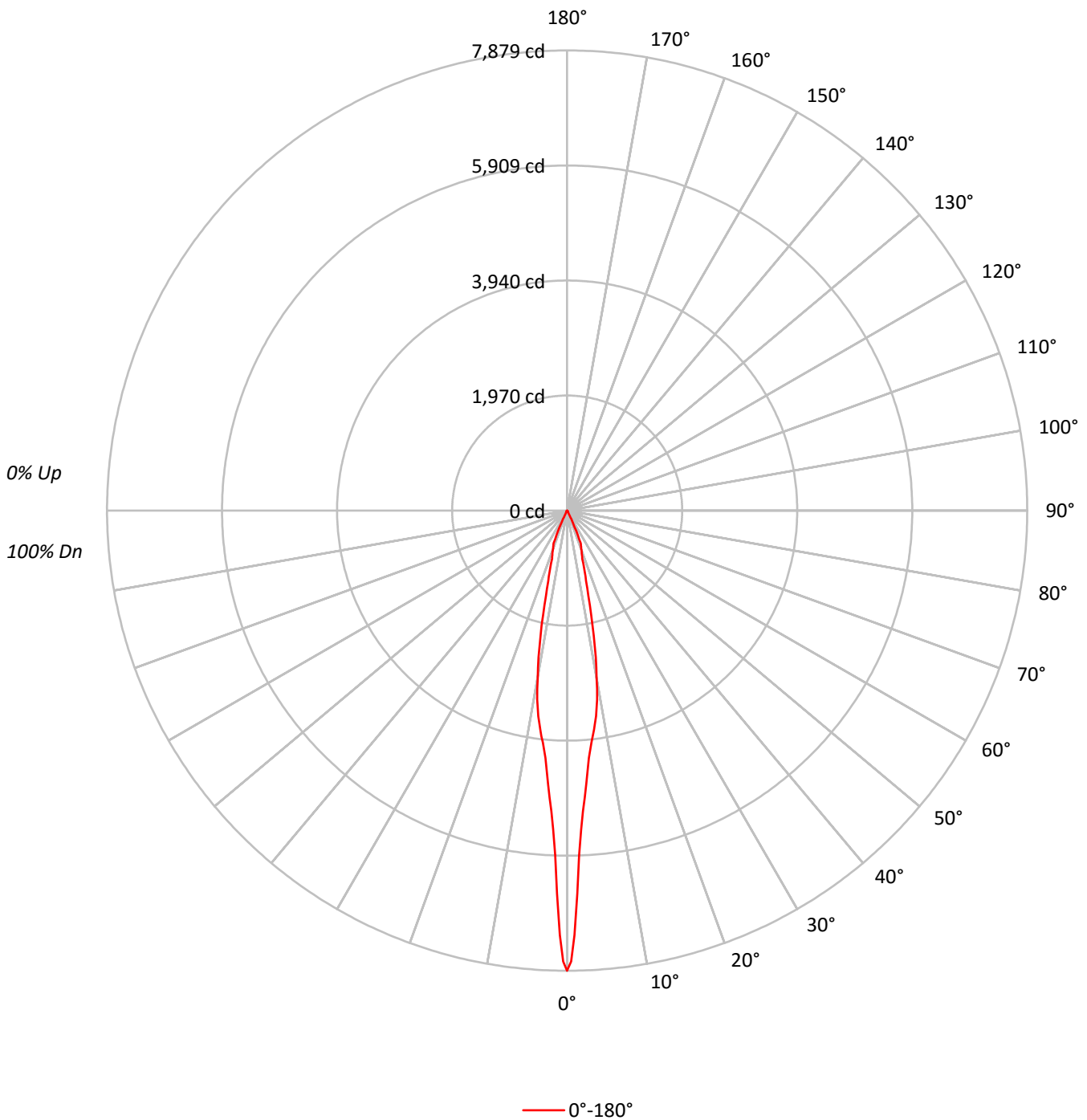
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 912.4 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.31
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 (Ain): 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	110	113	111	110	108	107	106	105		104	103	102		100	99	99	97
2	112	108	106	103	110	107	104	102	104	102	100		101	99	98		98	97	96	94
3	109	104	101	98	107	103	100	97	100	98	96		98	96	94		96	94	93	92
4	106	101	97	94	104	99	96	93	98	95	92		96	93	91		94	92	90	89
5	103	97	93	91	101	96	93	90	95	92	89		93	91	89		92	90	88	87
6	100	94	90	88	99	94	90	87	92	89	87		91	88	86		90	88	86	85
7	98	92	88	85	97	91	87	85	90	87	84		89	86	84		88	86	84	83
8	95	89	85	83	94	89	85	83	88	85	82		87	84	82		86	84	82	81
9	93	87	83	81	92	86	83	80	86	82	80		85	82	80		84	82	80	79
10	91	85	81	79	90	84	81	78	84	81	78		83	80	78		83	80	78	77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1269337
5°	662334
10°	442172
15°	186352
20°	105036
25°	34560
30°	2972
35°	1808
40°	2155
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°	379.0	41.5
10°-20°	385.0	42.2
20°-30°	133.9	14.7
30°-40°	10.3	1.1
40°-50°	2.9	0.3
50°-60°	1.1	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°	897.9	98.4
0°-40°	908.2	99.5
0°-60°	912.3	100.0
0°-90°	912.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7879	
5°	4252	379
15°	1248	385
25°	234	134
35°	12	10
45°	2	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7879
0.5°	7722
1°	7267
1.5°	6561
2°	5909
2.5°	5463
3°	5155
4°	4689
5°	4252
6°	3993
7°	3779
8°	3555
9°	3279
10°	2911
11°	2560
12°	2191
13°	1832
14°	1505
15°	1248
17.5°	861
20°	710
22.5°	602
25°	234
27.5°	56
30°	20
32.5°	18
35°	12
37.5°	19
40°	14
42.5°	4
45°	2
47.5°	2
50°	1
52.5°	2
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)