

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P295271

Luminaire Tested: **LD4B30DE010 EU4B30509030D2W 4LBW0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P295271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35167)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B30DE010 EU4B30509030D2W 4LBW0H  
Description: PORTFOLIO 4" D2W RN DOWNLIGHT, WIDE DISTRIBUTION WITH HAZE FINISH  
Light Source: D2W 1800K-3000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2015.7 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

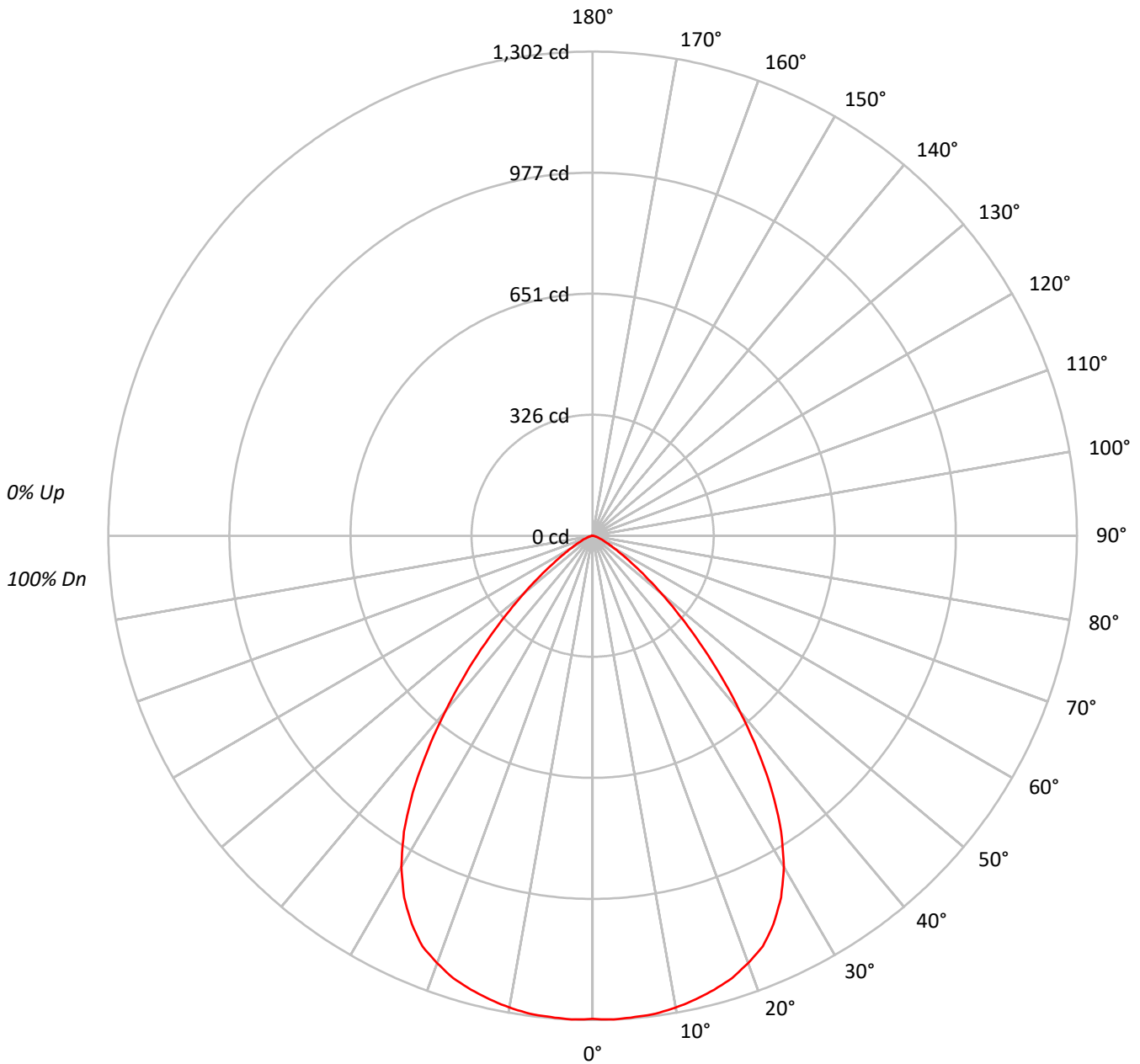
Input Watts (W): 30.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	141952
5°	142494
10°	142932
15°	142943
20°	142155
25°	138820
30°	129746
35°	112362
40°	87774
45°	62966
50°	40914
55°	24497
60°	14335
65°	9204
70°	6102
75°	4601
80°	3461
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.7	6.1
10°-20°	356.5	17.7
20°-30°	526.1	26.1
30°-40°	519.1	25.8
40°-50°	317.7	15.8
50°-60°	121.8	6.0
60°-70°	38.1	1.9
70°-80°	11.2	0.6
80°-90°	1.5	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°	1006.3	49.9
0°-40°	1525.5	75.7
0°-60°	1965.0	97.5
0°-90°	2015.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1299	
5°	1299	124
15°	1264	357
25°	1152	526
35°	842	519
45°	408	318
55°	129	122
65°	36	38
75°	11	11
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1299.2
2.5°	1302.0
5°	1299.2
7.5°	1296.5
10°	1288.3
12.5°	1277.3
15°	1263.7
17.5°	1247.3
20°	1222.6
22.5°	1195.3
25°	1151.5
27.5°	1096.8
30°	1028.4
32.5°	943.6
35°	842.4
37.5°	730.3
40°	615.4
42.5°	508.8
45°	407.5
47.5°	317.3
50°	240.7
52.5°	177.8
55°	128.6
57.5°	90.3
60°	65.6
62.5°	49.2
65°	35.6
67.5°	27.4
70°	19.1
72.5°	13.7
75°	10.9
77.5°	5.5
80°	5.5
82.5°	2.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)