

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: P295268

Luminaire Tested: **LD4B30DE010 EU4B30509030D2W 4LBM0GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P295268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35175)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B30DE010 EU4B30509030D2W 4LBM0GPH  
Description: PORTFOLIO 4" D2W RN DOWNLIGHT, MEDIUM DISTRIBUTION WITH GRAPHITE HAZE FINISH  
Light Source: D2W 1800K-3000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1301.9 lumens  
Efficiency: N/A  
Efficacy: 42.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

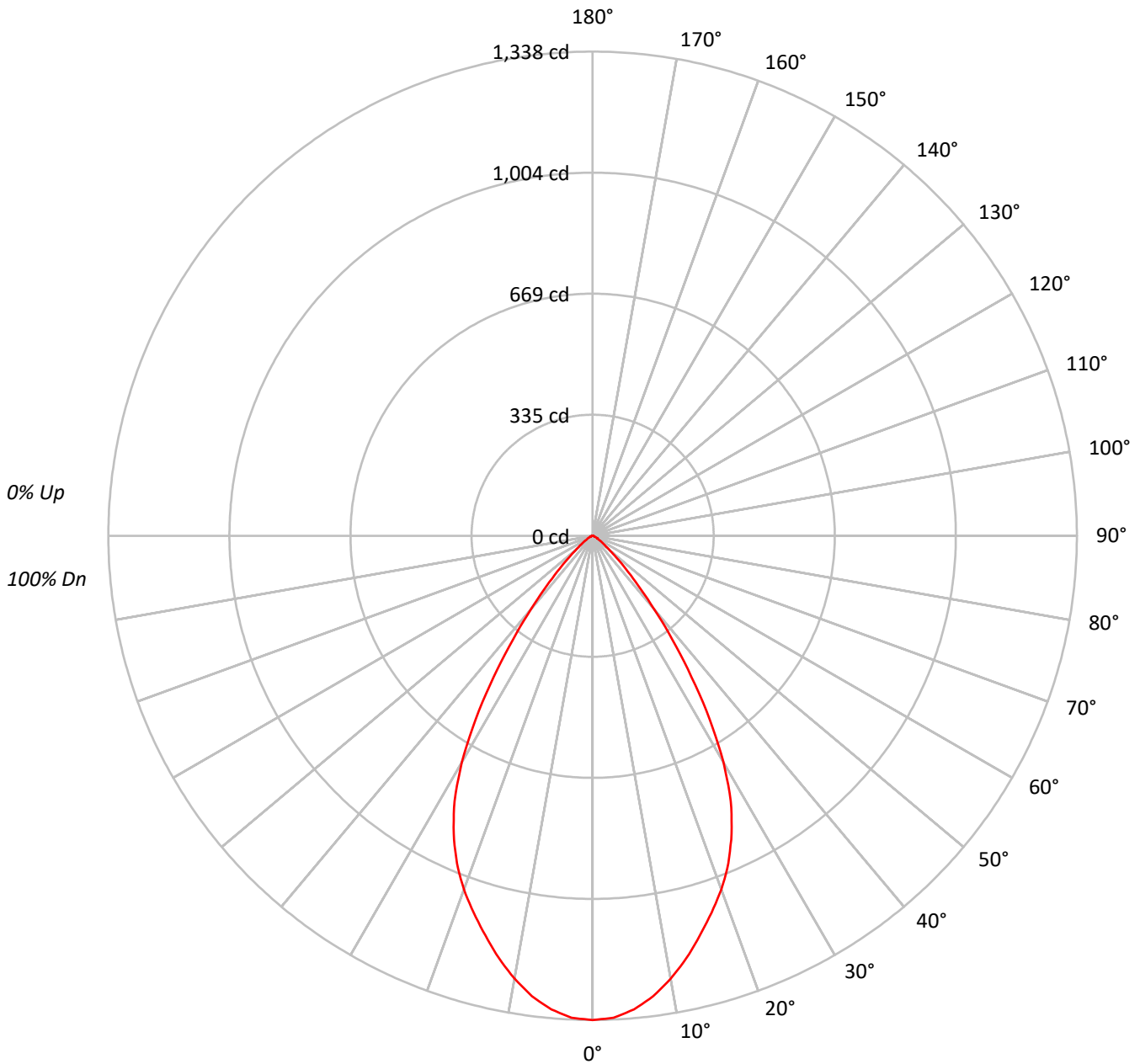
Input Watts (W): 30.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86			
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79			
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59			
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55			
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	52	49	48			

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

	0°
0°	146235
5°	144095
10°	137862
15°	129415
20°	120935
25°	109549
30°	91166
35°	63517
40°	37483
45°	19871
50°	9774
55°	5734
60°	3584
65°	2120
70°	1757
75°	1140
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	9.5
10°-20°	321.2	24.7
20°-30°	411.9	31.6
30°-40°	297.7	22.9
40°-50°	106.8	8.2
50°-60°	28.8	2.2
60°-70°	9.4	0.7
70°-80°	2.9	0.2
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°	856.3	65.8
0°-40°	1154.0	88.6
0°-60°	1289.6	99.1
0°-90°	1301.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1301.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1338	
5°	1314	123
15°	1144	321
25°	909	412
35°	476	298
45°	129	107
55°	30	29
65°	8	9
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1338.4
2.5°	1332.9
5°	1313.8
7.5°	1283.7
10°	1242.6
12.5°	1196.1
15°	1144.1
17.5°	1092.1
20°	1040.1
22.5°	979.9
25°	908.7
27.5°	826.6
30°	722.6
32.5°	602.2
35°	476.2
37.5°	361.3
40°	262.8
42.5°	186.1
45°	128.6
47.5°	87.6
50°	57.5
52.5°	41.1
55°	30.1
57.5°	21.9
60°	16.4
62.5°	13.7
65°	8.2
67.5°	5.5
70°	5.5
72.5°	2.7
75°	2.7
77.5°	2.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)