

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: P274311

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBCS0MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35142)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBCS0MW  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1243.4 lumens  
Efficiency: N/A  
Efficacy: 56.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct

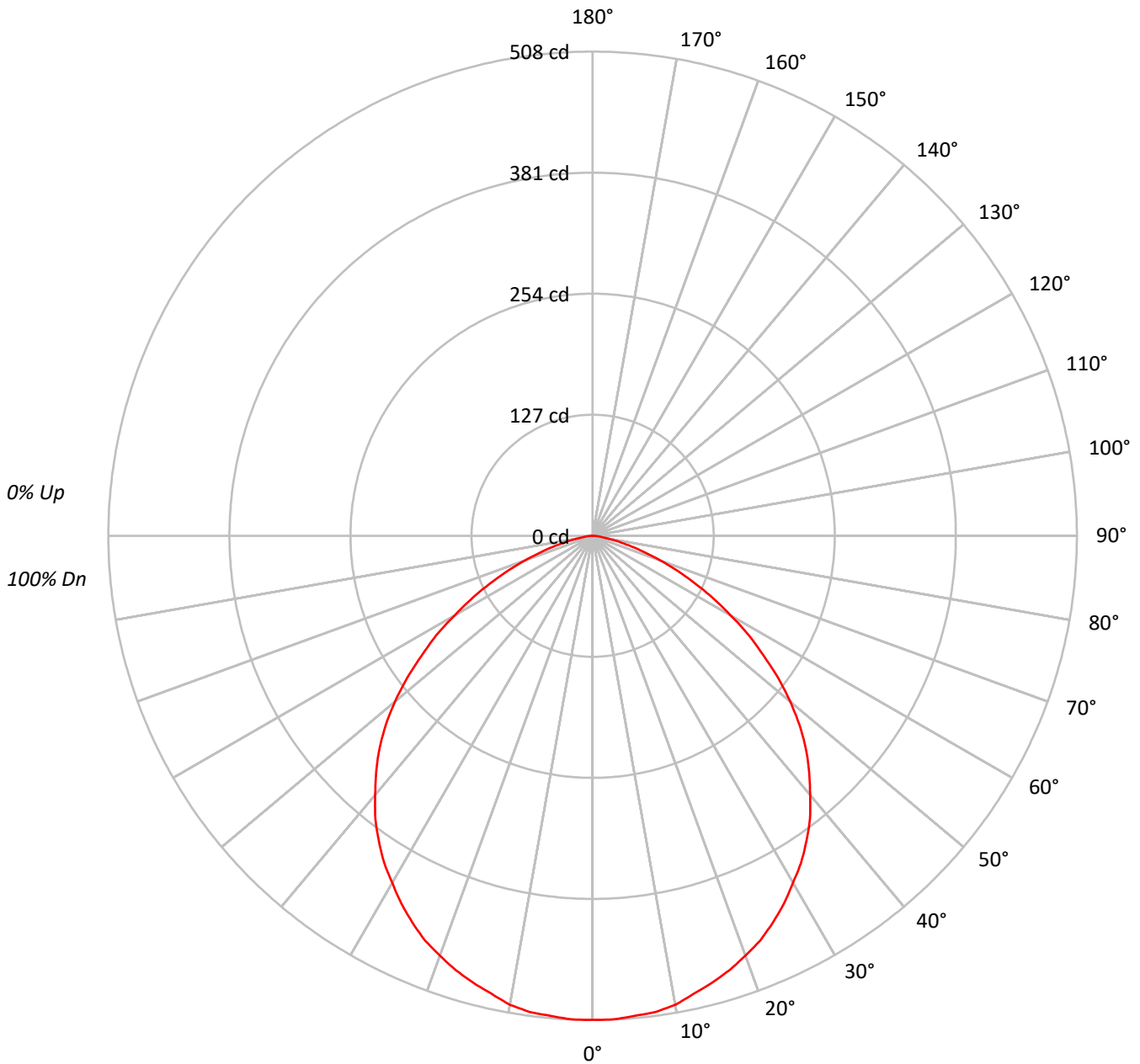
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74			
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55			
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30			
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27			

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

	0°
0°	49499
5°	49463
10°	49441
15°	48965
20°	48610
25°	48132
30°	47310
35°	46531
40°	45151
45°	43622
50°	41013
55°	37126
60°	32609
65°	27465
70°	21457
75°	15024
80°	8475
85°	5926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.1	3.9
10°-20°	137.0	11.0
20°-30°	206.1	16.6
30°-40°	244.2	19.6
40°-50°	243.0	19.5
50°-60°	195.9	15.8
60°-70°	118.5	9.5
70°-80°	44.0	3.5
80°-90°	6.6	0.5
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°	391.2	31.5
0°-40°	635.4	51.1
0°-60°	1074.4	86.4
0°-90°	1243.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	508	
5°	506	48
15°	485	137
25°	448	206
35°	391	244
45°	316	243
55°	218	196
65°	119	119
75°	40	44
85°	5	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	507.9
2.5°	507.9
5°	505.6
7.5°	504.1
10°	499.6
12.5°	492.0
15°	485.3
17.5°	477.7
20°	468.7
22.5°	459.6
25°	447.6
27.5°	434.8
30°	420.4
32.5°	406.9
35°	391.1
37.5°	374.5
40°	354.9
42.5°	336.1
45°	316.5
47.5°	294.6
50°	270.5
52.5°	245.6
55°	218.5
57.5°	194.4
60°	167.3
62.5°	143.2
65°	119.1
67.5°	96.4
70°	75.3
72.5°	56.5
75°	39.9
77.5°	25.6
80°	15.1
82.5°	9.0
85°	5.3
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)