

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: P274317

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBCS0MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35143)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBCS0MB  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE BLACK FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1048.3 lumens  
Efficiency: N/A  
Efficacy: 47.7 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

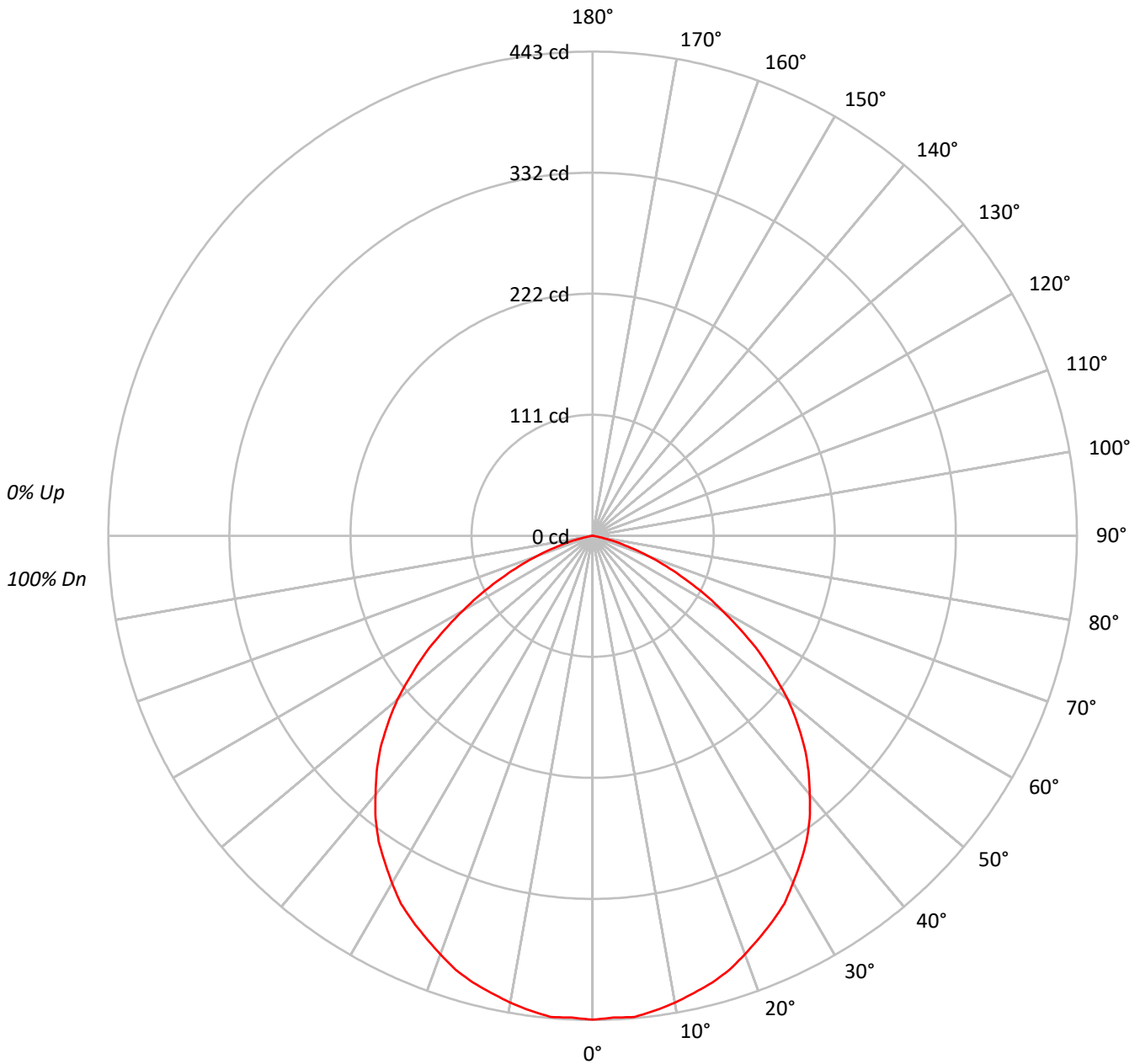
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88	88	88	88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75	75	75	75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56	56	56	56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49	49	49	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39	39	39	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28

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

	0°
0°	43145
5°	43231
10°	42920
15°	42689
20°	42253
25°	41863
30°	41278
35°	40594
40°	39299
45°	37806
50°	35327
55°	31672
60°	26665
65°	21308
70°	15416
75°	8472
80°	1684
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	4.0
10°-20°	119.3	11.4
20°-30°	179.3	17.1
30°-40°	212.8	20.3
40°-50°	210.6	20.1
50°-60°	165.4	15.8
60°-70°	92.7	8.8
70°-80°	26.0	2.5
80°-90°	0.4	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°	340.5	32.5
0°-40°	553.3	52.8
0°-60°	929.2	88.6
0°-90°	1048.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	443	
5°	442	42
15°	423	119
25°	389	179
35°	341	213
45°	274	211
55°	186	165
65°	92	93
75°	22	26
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	442.7
2.5°	441.2
5°	441.9
7.5°	438.2
10°	433.7
12.5°	428.4
15°	423.1
17.5°	416.4
20°	407.4
22.5°	398.3
25°	389.3
27.5°	379.6
30°	366.8
32.5°	354.0
35°	341.2
37.5°	326.2
40°	308.9
42.5°	292.4
45°	274.3
47.5°	254.0
50°	233.0
52.5°	208.9
55°	186.4
57.5°	160.8
60°	136.8
62.5°	115.0
65°	92.4
67.5°	72.9
70°	54.1
72.5°	36.8
75°	22.5
77.5°	11.3
80°	3.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)