

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: P274287

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBW0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274287  
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: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBW0H  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH HAZE FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1024.0 lumens  
Efficiency: N/A  
Efficacy: 46.5 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

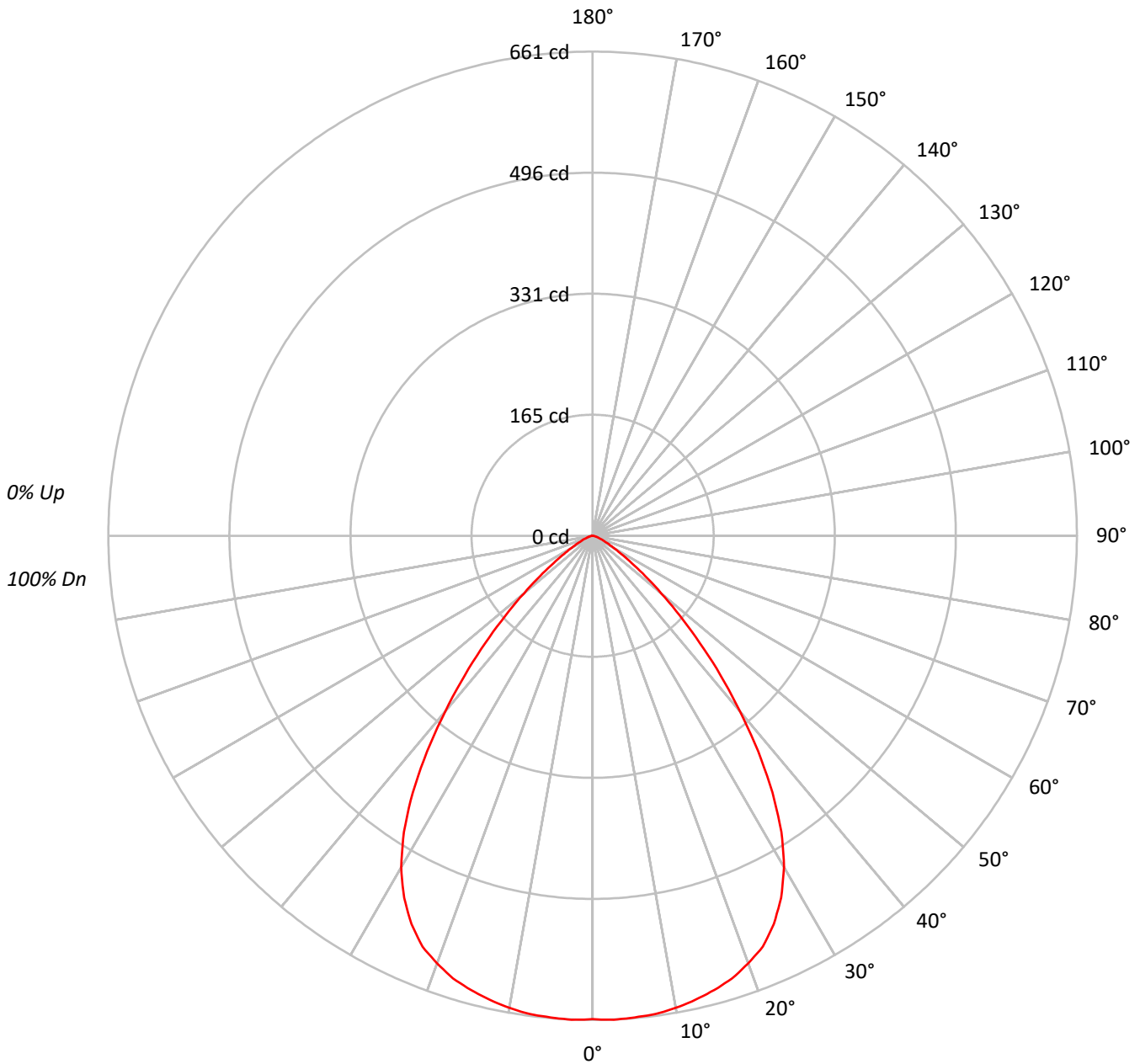
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			43
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	72112
5°	72388
10°	72614
15°	72620
20°	72217
25°	70525
30°	65920
35°	57088
40°	44586
45°	31985
50°	20789
55°	12439
60°	7277
65°	4679
70°	3099
75°	2364
80°	1762
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	6.1
10°-20°	181.1	17.7
20°-30°	267.3	26.1
30°-40°	263.7	25.8
40°-50°	161.4	15.8
50°-60°	61.9	6.0
60°-70°	19.3	1.9
70°-80°	5.7	0.6
80°-90°	0.8	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°	511.2	49.9
0°-40°	775.0	75.7
0°-60°	998.2	97.5
0°-90°	1024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	660	
5°	660	63
15°	642	181
25°	585	267
35°	428	264
45°	207	161
55°	65	62
65°	18	19
75°	6	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	660.0
2.5°	661.4
5°	660.0
7.5°	658.6
10°	654.5
12.5°	648.9
15°	642.0
17.5°	633.6
20°	621.1
22.5°	607.2
25°	585.0
27.5°	557.2
30°	522.5
32.5°	479.4
35°	428.0
37.5°	371.0
40°	312.6
42.5°	258.4
45°	207.0
47.5°	161.2
50°	122.3
52.5°	90.3
55°	65.3
57.5°	45.9
60°	33.3
62.5°	25.0
65°	18.1
67.5°	13.9
70°	9.7
72.5°	6.9
75°	5.6
77.5°	2.8
80°	2.8
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)