

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: P274299

Luminaire Tested: **LD4B15DE010W2N2050 EU4B1020W2N902050 4LBS0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35292)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B15DE010W2N2050 EU4B1020W2N902050 4LBS0LI  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH SPECULAR FINISH  
Light Source: W2N 2000K-5000K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1206.8 lumens  
Efficiency: N/A  
Efficacy: 54.9 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

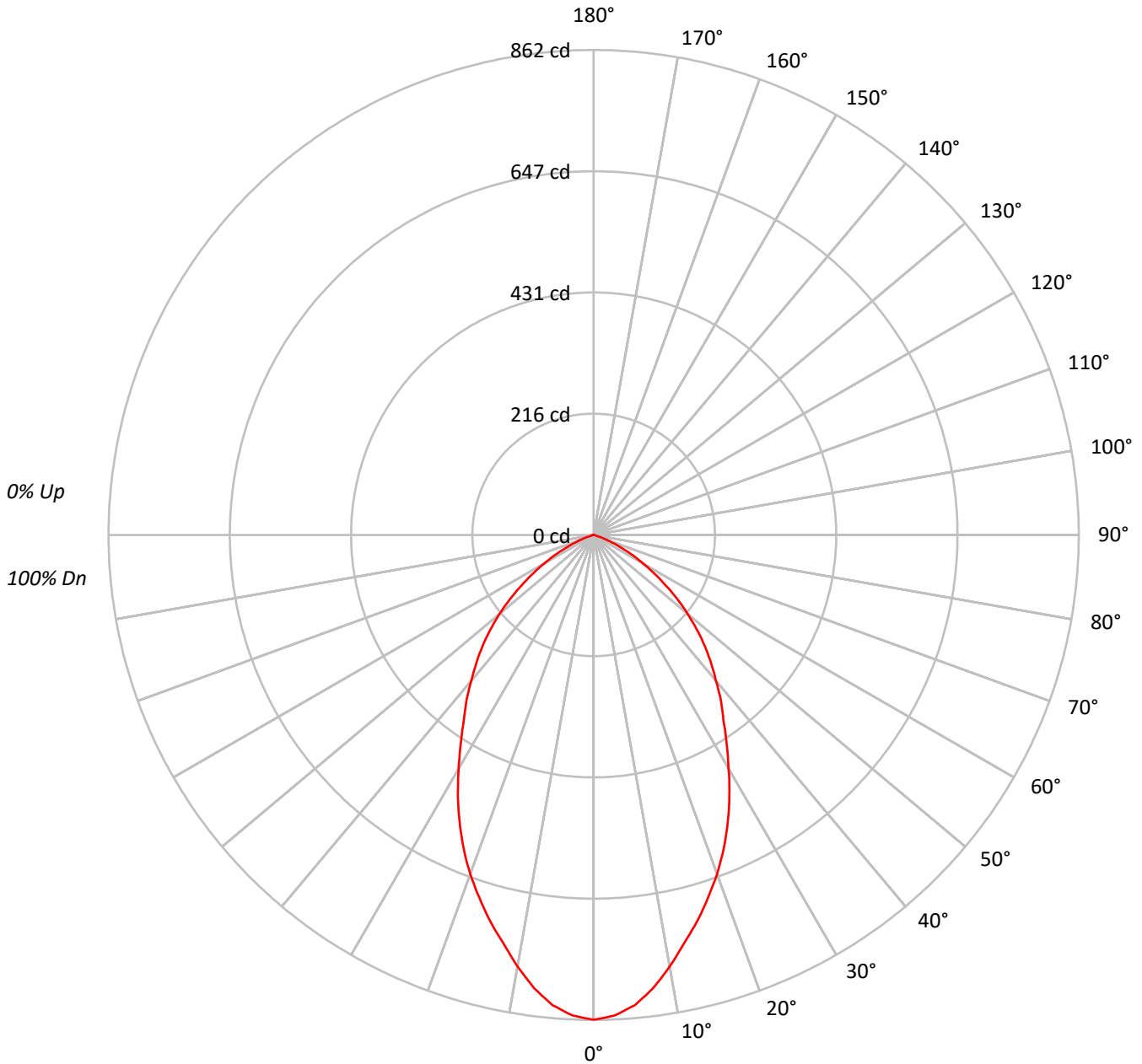
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80																			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57																			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51																			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																			

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

	0°
0°	94150
5°	92020
10°	86416
15°	80402
20°	74566
25°	67969
30°	60508
35°	53633
40°	48209
45°	43141
50°	37022
55°	29774
60°	22180
65°	14168
70°	6836
75°	1140
80°	818
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	6.5
10°-20°	199.3	16.5
20°-30°	258.2	21.4
30°-40°	253.0	21.0
40°-50°	214.5	17.8
50°-60°	140.6	11.6
60°-70°	56.5	4.7
70°-80°	6.5	0.5
80°-90°	0.2	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°	535.6	44.4
0°-40°	788.6	65.3
0°-60°	1143.7	94.8
0°-90°	1206.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1206.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	862	
5°	839	78
15°	711	199
25°	564	258
35°	402	253
45°	279	214
55°	156	141
65°	55	57
75°	3	6
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	861.7
2.5°	855.1
5°	839.0
7.5°	812.3
10°	778.9
12.5°	742.8
15°	710.8
17.5°	676.0
20°	641.3
22.5°	603.9
25°	563.8
27.5°	522.4
30°	479.6
32.5°	439.5
35°	402.1
37.5°	371.4
40°	338.0
42.5°	308.6
45°	279.2
47.5°	248.5
50°	217.8
52.5°	187.0
55°	156.3
57.5°	128.3
60°	101.5
62.5°	77.5
65°	54.8
67.5°	36.1
70°	21.4
72.5°	9.4
75°	2.7
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)