

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: P274316

Luminaire Tested: **LD4B10DE010W2N2050 EU4B1020W2N902050 4LBCS0MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274316  
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: LD4B10DE010W2N2050 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: 727.6 lumens  
Efficiency: N/A  
Efficacy: 52.0 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

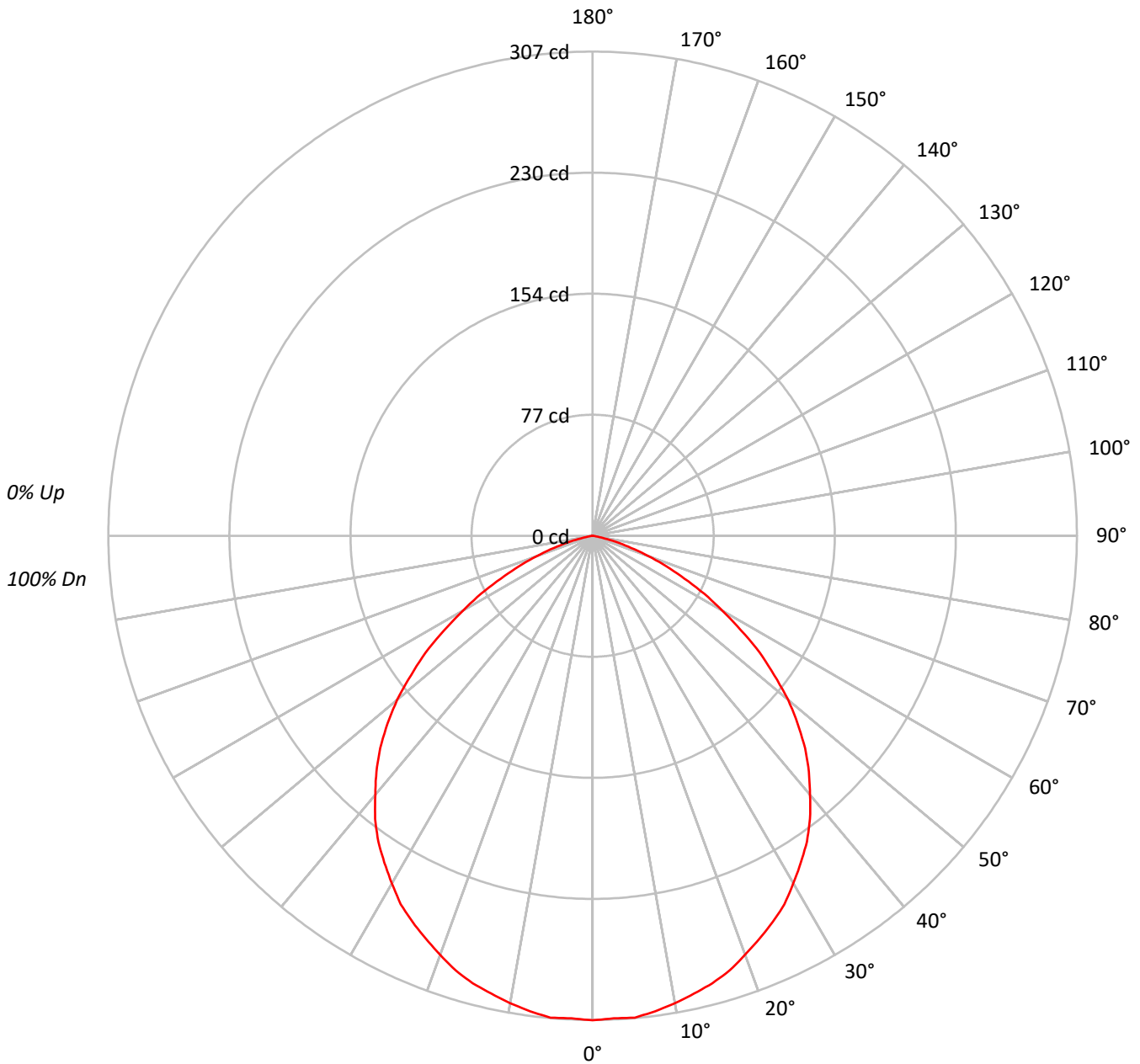
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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°	29939
5°	30005
10°	29787
15°	29633
20°	29320
25°	29055
30°	28640
35°	28173
40°	27277
45°	26242
50°	24517
55°	21987
60°	18498
65°	14805
70°	10714
75°	5874
80°	1179
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.1	4.0
10°-20°	82.8	11.4
20°-30°	124.5	17.1
30°-40°	147.7	20.3
40°-50°	146.1	20.1
50°-60°	114.8	15.8
60°-70°	64.4	8.8
70°-80°	18.1	2.5
80°-90°	0.3	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°	236.3	32.5
0°-40°	384.0	52.8
0°-60°	644.9	88.6
0°-90°	727.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	307	
5°	307	29
15°	294	83
25°	270	124
35°	237	148
45°	190	146
55°	129	115
65°	64	64
75°	16	18
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	307.2
2.5°	306.2
5°	306.7
7.5°	304.1
10°	301.0
12.5°	297.3
15°	293.7
17.5°	289.0
20°	282.7
22.5°	276.5
25°	270.2
27.5°	263.4
30°	254.5
32.5°	245.7
35°	236.8
37.5°	226.4
40°	214.4
42.5°	202.9
45°	190.4
47.5°	176.3
50°	161.7
52.5°	145.0
55°	129.4
57.5°	111.6
60°	94.9
62.5°	79.8
65°	64.2
67.5°	50.6
70°	37.6
72.5°	25.6
75°	15.6
77.5°	7.8
80°	2.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)