

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: P274318

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBCS0MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274318  
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: LD4B20DE010W2N2050 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: 1296.8 lumens  
Efficiency: N/A  
Efficacy: 46.3 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

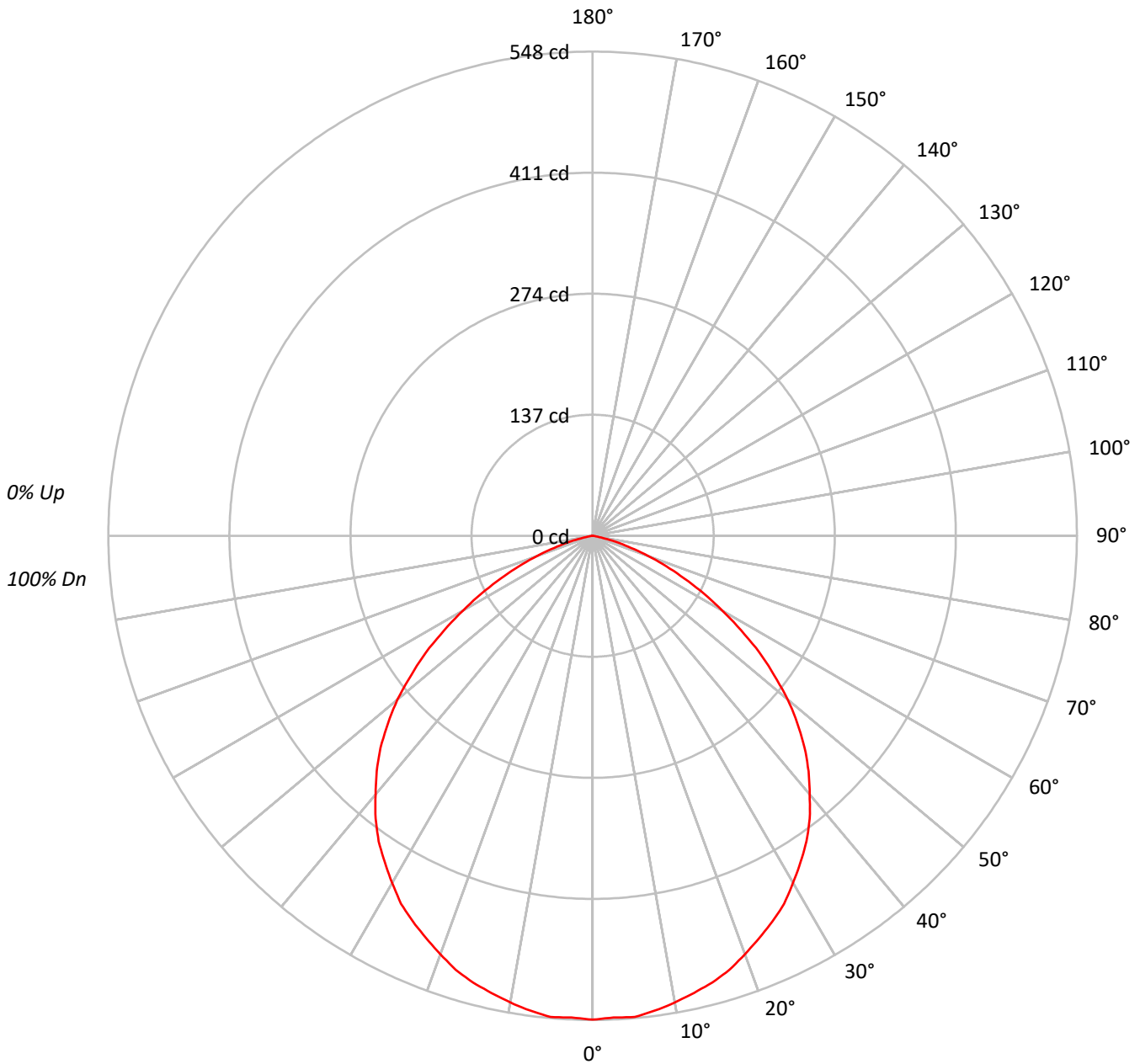
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	53368
5°	53484
10°	53083
15°	52809
20°	52261
25°	51788
30°	51057
35°	50219
40°	48612
45°	46765
50°	43696
55°	39182
60°	32980
65°	26381
70°	19063
75°	10506
80°	2077
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	4.0
10°-20°	147.6	11.4
20°-30°	221.8	17.1
30°-40°	263.2	20.3
40°-50°	260.4	20.1
50°-60°	204.6	15.8
60°-70°	114.7	8.8
70°-80°	32.2	2.5
80°-90°	0.5	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°	421.2	32.5
0°-40°	684.4	52.8
0°-60°	1149.4	88.6
0°-90°	1296.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1296.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	548	
5°	547	52
15°	523	148
25°	482	222
35°	422	263
45°	339	260
55°	231	205
65°	114	115
75°	28	32
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	547.6
2.5°	545.7
5°	546.7
7.5°	542.0
10°	536.4
12.5°	529.9
15°	523.4
17.5°	515.1
20°	503.9
22.5°	492.7
25°	481.6
27.5°	469.5
30°	453.7
32.5°	437.9
35°	422.1
37.5°	403.5
40°	382.1
42.5°	361.7
45°	339.3
47.5°	314.2
50°	288.2
52.5°	258.5
55°	230.6
57.5°	199.0
60°	169.2
62.5°	142.2
65°	114.4
67.5°	90.2
70°	66.9
72.5°	45.6
75°	27.9
77.5°	13.9
80°	3.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)