

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: P282701

Luminaire Tested: **LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B10D2WD010 EU2B10NFL25D2W 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 684.6 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

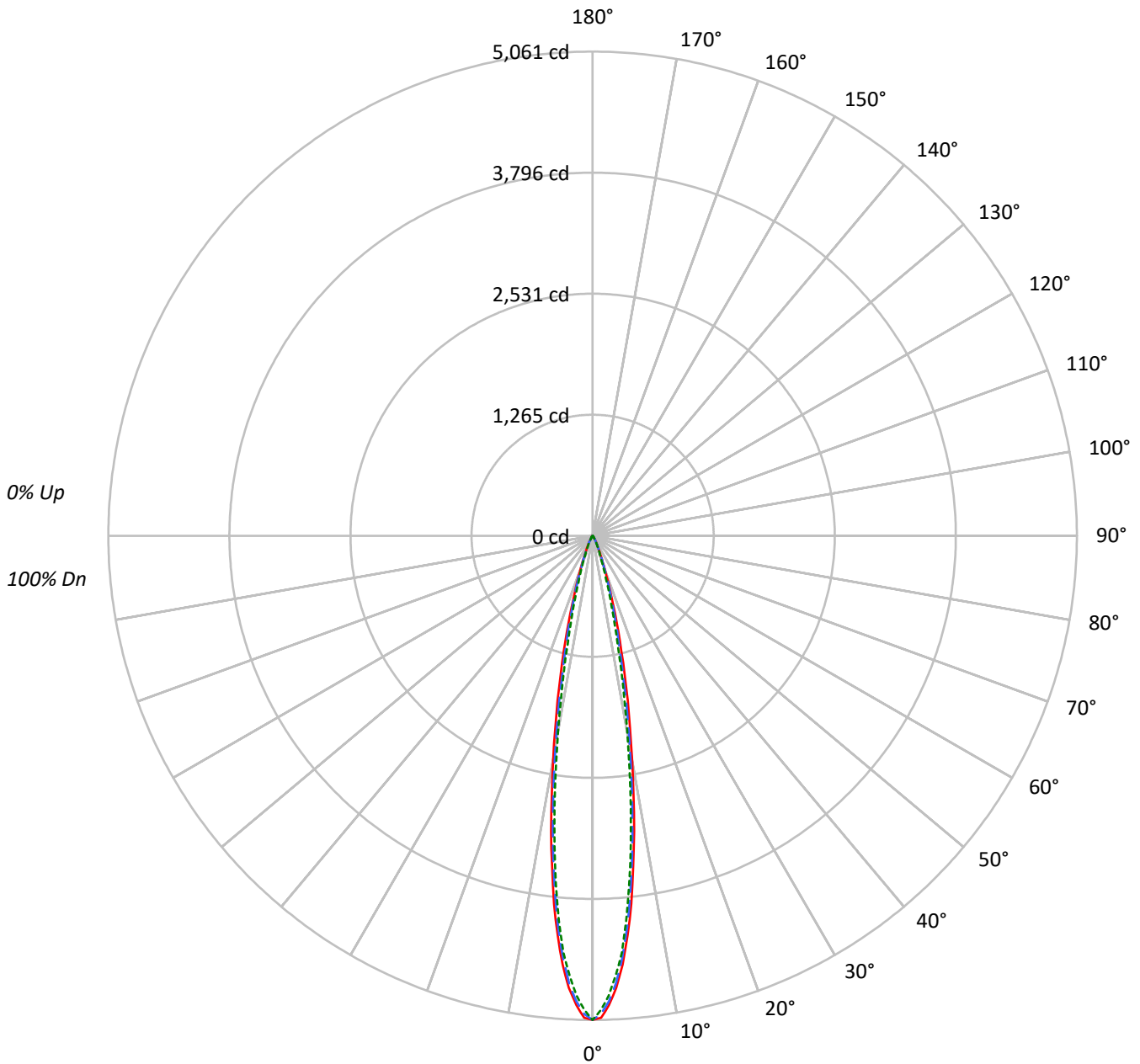
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	2497101	2497101	2497101
5°	2077856	2039771	1998616
10°	1190161	1116869	1042324
15°	529358	470160	394005
20°	192054	180556	143069
25°	73761	68862	59281
30°	31788	29567	26262
35°	15057	15057	12467
40°	7535	7793	6312
45°	4326	4117	3837
50°	2993	2686	2686
55°	2322	1720	1978
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.2	48.1
10°-20°	266.4	38.9
20°-30°	64.2	9.4
30°-40°	16.4	2.4
40°-50°	4.9	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.2
70°-80°	0.3	0.0
80°-90°	0.0	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°	659.8	96.4
0°-40°	676.2	98.8
0°-60°	683.2	99.8
0°-90°	684.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5061	5061	5061	5061	5061	
5°	4196	4157	4119	4083	4036	339
15°	1036	1012	920	829	771	296
25°	136	136	126	115	109	70
35°	25	25	25	23	21	17
45°	6	6	6	6	6	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5061.4	5061.4	5061.4	5061.4	5061.4
1°	5038.8	5003.7	4999.4	5021.2	4956.8
2°	4910.0	4885.0	4870.5	4883.4	4810.4
3°	4733.1	4708.9	4682.8	4683.2	4601.6
4°	4492.3	4473.2	4429.1	4415.8	4368.5
5°	4195.6	4157.0	4118.7	4082.8	4035.6
6°	3867.7	3817.7	3763.1	3709.6	3661.2
7°	3482.0	3448.9	3376.6	3303.6	3262.6
8°	3119.4	3065.9	2981.6	2890.2	2855.5
9°	2729.4	2691.2	2594.3	2488.2	2453.4
10°	2375.7	2335.9	2229.4	2111.1	2080.6
11°	2043.9	2006.5	1895.6	1771.5	1739.1
12°	1763.3	1710.2	1582.9	1475.2	1443.6
13°	1483.8	1447.5	1326.8	1220.3	1159.0
14°	1246.0	1216.0	1106.7	1013.0	948.2
15°	1036.4	1011.8	920.5	829.1	771.4
16°	850.2	835.0	762.8	674.5	627.3
17°	689.8	675.7	629.7	548.5	508.6
18°	557.0	555.1	516.8	446.6	411.1
19°	458.3	457.5	422.4	363.4	334.2
20°	365.8	370.8	343.9	292.4	272.5
21°	298.2	301.0	279.5	240.5	222.5
22°	242.8	244.8	230.7	198.7	188.9
23°	199.1	200.3	188.5	164.7	156.1
24°	164.0	164.7	154.2	137.4	130.0
25°	135.5	136.2	126.5	114.8	108.9
26°	112.4	113.2	104.6	96.4	90.6
27°	93.3	94.9	86.3	81.2	74.9
28°	79.6	80.0	72.2	69.1	63.2
29°	65.2	67.5	60.9	58.2	53.9
30°	55.8	57.0	51.9	50.0	46.1
32.5°	37.1	37.9	35.5	34.0	30.8
35°	25.0	25.4	25.0	22.6	20.7
37.5°	17.2	17.2	17.6	14.8	14.1
40°	11.7	11.7	12.1	10.1	9.8
42.5°	8.6	8.6	8.2	7.0	7.0
45°	6.2	6.2	5.9	5.5	5.5
47.5°	5.1	4.7	4.3	4.3	4.3
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	2.0	2.0	2.3
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







62.5°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)