

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: P315805

Luminaire Tested: **LDA2B20WFL8030D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B20WFL8030D010 PIN1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1663.5 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

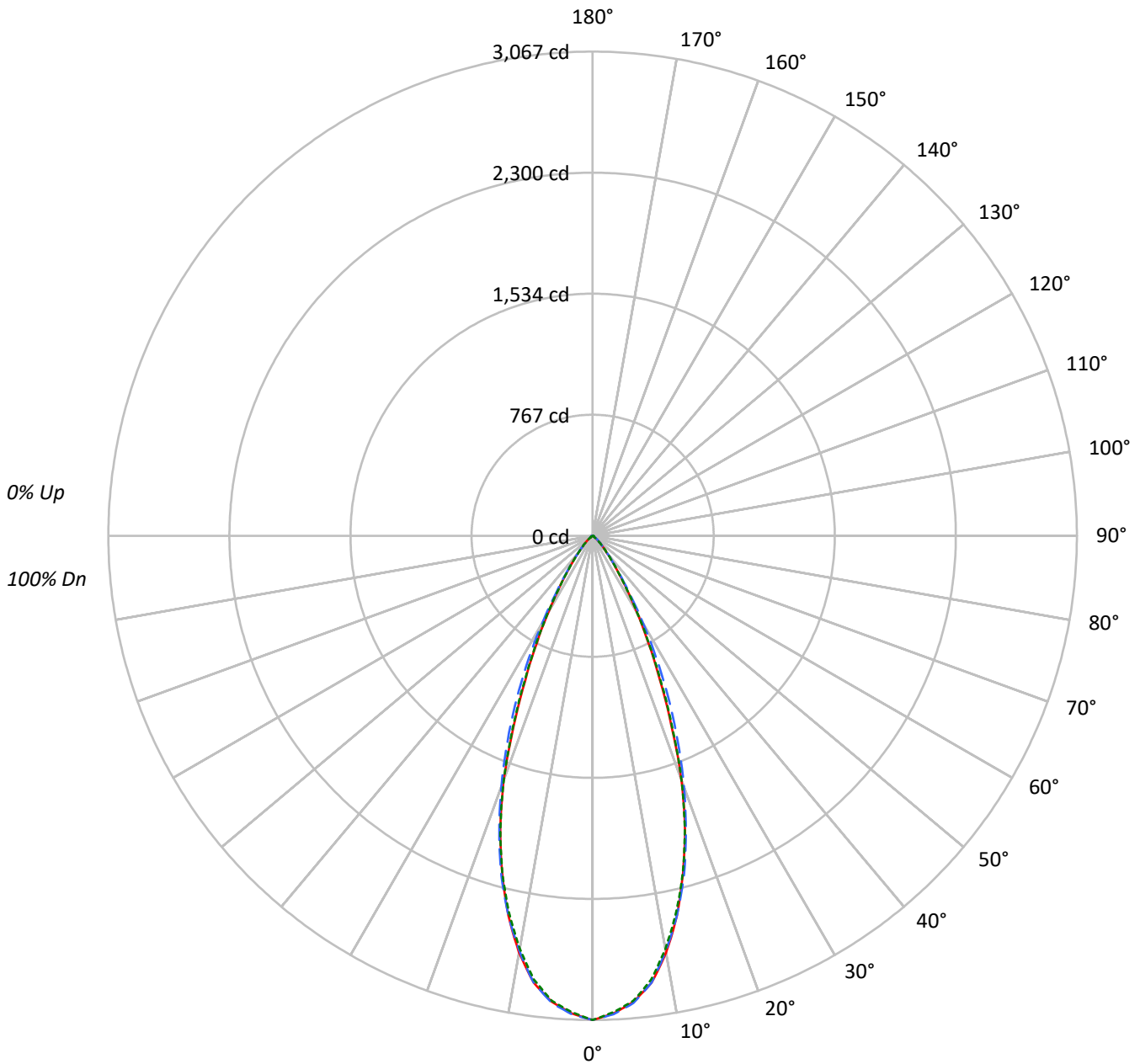
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	1513141	1513141	1513141
5°	1467712	1471228	1464592
10°	1343458	1338098	1330032
15°	1130018	1140489	1128179
20°	864138	887082	862773
25°	548774	618670	559443
30°	319138	360326	324777
35°	168700	179480	169242
40°	89070	93064	89070
45°	49817	51631	50445
50°	23256	29473	23256
55°	8429	16085	9204
60°	9670	9670	9670
65°	10390	11440	10390
70°	12838	11540	12838
75°	11818	11818	11818
80°	12785	10228	12785
85°	10189	10189	10189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	16.5
10°-20°	609.6	36.6
20°-30°	492.3	29.6
30°-40°	194.6	11.7
40°-50°	59.7	3.6
50°-60°	15.4	0.9
60°-70°	9.3	0.6
70°-80°	6.8	0.4
80°-90°	2.1	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°	1375.7	82.7
0°-40°	1570.2	94.4
0°-60°	1645.4	98.9
0°-90°	1663.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3067	3067	3067	3067	3067	
5°	2964	2969	2971	2964	2957	274
15°	2212	2219	2233	2224	2209	608
25°	1008	1056	1136	1076	1028	469
35°	280	288	298	289	281	188
45°	71	72	74	73	72	58
55°	10	13	19	13	11	12
65°	9	10	10	10	9	9
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3067.0	3067.0	3067.0	3067.0	3067.0
2.5°	3028.7	3030.5	3033.1	3029.6	3020.7
5°	2963.6	2968.9	2970.7	2964.5	2957.3
7.5°	2856.5	2850.3	2855.6	2844.9	2836.0
10°	2681.7	2673.6	2671.0	2654.9	2654.9
12.5°	2465.8	2463.1	2464.9	2456.8	2444.4
15°	2212.4	2218.7	2232.9	2224.0	2208.8
17.5°	1943.9	1952.8	1965.3	1962.6	1942.1
20°	1645.9	1671.8	1689.6	1672.7	1643.3
22.5°	1306.9	1362.2	1407.7	1372.1	1323.9
25°	1008.1	1056.2	1136.5	1075.9	1027.7
27.5°	764.5	799.3	872.5	812.7	779.7
30°	560.2	581.6	632.5	593.2	570.1
32.5°	400.6	415.7	437.1	413.9	402.3
35°	280.1	288.1	298.0	289.0	281.0
37.5°	197.2	199.8	207.0	199.8	196.3
40°	138.3	139.2	144.5	140.1	138.3
42.5°	99.9	99.9	102.6	100.8	99.9
45°	71.4	72.3	74.0	73.2	72.3
47.5°	50.8	52.6	52.6	53.5	50.0
50°	30.3	37.5	38.4	37.5	30.3
52.5°	16.1	22.3	27.7	22.3	16.1
55°	9.8	13.4	18.7	13.4	10.7
57.5°	9.8	9.8	12.5	10.7	9.8
60°	9.8	9.8	9.8	9.8	9.8
62.5°	9.8	9.8	9.8	9.8	9.8
65°	8.9	9.8	9.8	9.8	8.9
67.5°	8.9	8.9	8.9	8.9	8.9
70°	8.9	8.9	8.0	8.9	8.9
72.5°	8.0	8.0	7.1	8.0	8.0
75°	6.2	6.2	6.2	6.2	6.2
77.5°	5.4	5.4	5.4	5.4	5.4
80°	4.5	4.5	3.6	4.5	4.5
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)