

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: P315811

Luminaire Tested: **LDA2B20WFL8035D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315811  
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: LDA2B20WFL8035D010 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**

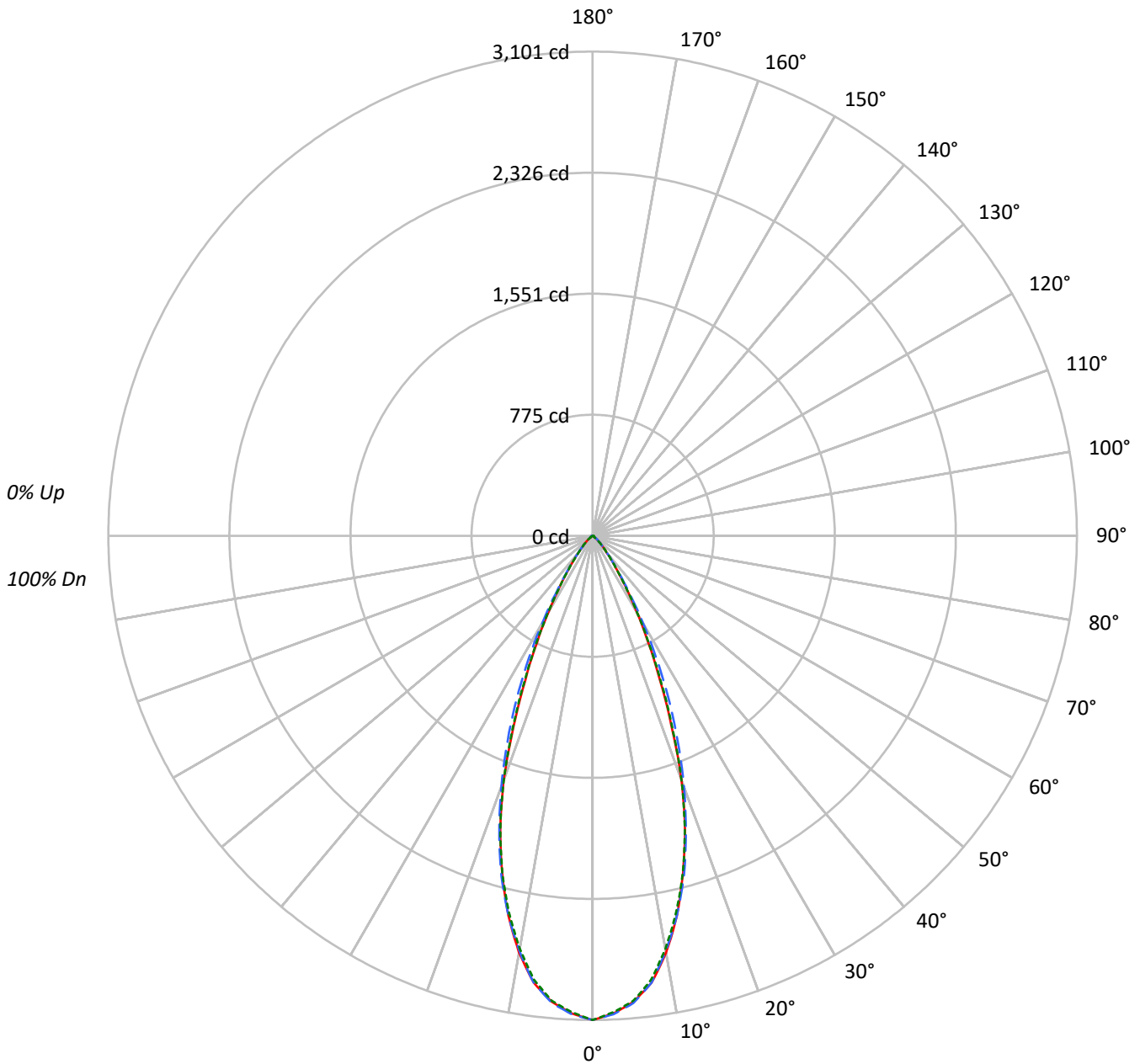
Lumens per Lamp: N/A  
Luminaire Lumens: 1681.9 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	1529964	1529964	1529964
5°	1483956	1487571	1480836
10°	1358337	1352927	1344811
15°	1142583	1153156	1140744
20°	873746	896952	872328
25°	554871	625529	565649
30°	322727	364314	328367
35°	170567	181468	171109
40°	90037	94094	90037
45°	50375	52259	51003
50°	23563	29780	23563
55°	8515	16257	9290
60°	9769	9769	9769
65°	10507	11557	10507
70°	12982	11684	12982
75°	12009	12009	12009
80°	12785	10228	12785
85°	10189	10189	10189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	16.5
10°-20°	616.3	36.6
20°-30°	497.8	29.6
30°-40°	196.7	11.7
40°-50°	60.4	3.6
50°-60°	15.5	0.9
60°-70°	9.4	0.6
70°-80°	6.9	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°	1390.9	82.7
0°-40°	1587.6	94.4
0°-60°	1663.6	98.9
0°-90°	1681.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3101	3101	3101	3101	3101	
5°	2996	3002	3004	2997	2990	277
15°	2237	2243	2258	2249	2233	614
25°	1019	1068	1149	1088	1039	474
35°	283	291	301	292	284	190
45°	72	73	75	74	73	59
55°	10	14	19	14	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°	3101.1	3101.1	3101.1	3101.1	3101.1
2.5°	3062.3	3064.1	3066.8	3063.2	3054.2
5°	2996.4	3001.9	3003.7	2997.3	2990.1
7.5°	2888.2	2881.9	2887.3	2876.5	2867.5
10°	2711.4	2703.3	2700.6	2684.4	2684.4
12.5°	2493.1	2490.4	2492.2	2484.1	2471.5
15°	2237.0	2243.3	2257.7	2248.7	2233.4
17.5°	1965.5	1974.5	1987.1	1984.4	1963.7
20°	1664.2	1690.3	1708.4	1691.2	1661.5
22.5°	1321.4	1377.4	1423.4	1387.3	1338.6
25°	1019.3	1068.0	1149.1	1087.8	1039.1
27.5°	773.0	808.2	882.2	821.7	788.3
30°	566.5	588.1	639.5	599.8	576.4
32.5°	405.0	420.3	442.0	418.5	406.8
35°	283.2	291.3	301.3	292.2	284.1
37.5°	199.3	202.0	209.3	202.0	198.4
40°	139.8	140.7	146.1	141.6	139.8
42.5°	101.0	101.0	103.7	101.9	101.0
45°	72.2	73.1	74.9	74.0	73.1
47.5°	51.4	53.2	53.2	54.1	50.5
50°	30.7	37.9	38.8	37.9	30.7
52.5°	16.2	22.5	28.0	22.5	16.2
55°	9.9	13.5	18.9	13.5	10.8
57.5°	9.9	9.9	12.6	10.8	9.9
60°	9.9	9.9	9.9	9.9	9.9
62.5°	9.9	9.9	9.9	9.9	9.9
65°	9.0	9.9	9.9	9.9	9.0
67.5°	9.0	9.0	9.0	9.0	9.0
70°	9.0	9.0	8.1	9.0	9.0
72.5°	8.1	8.1	7.2	8.1	8.1
75°	6.3	6.3	6.3	6.3	6.3
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)