

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: P315847

Luminaire Tested: **LDA2B20WFL9035D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315847  
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: LDA2B20WFL9035D010 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: 1393.0 lumens  
Efficiency: N/A  
Efficacy: 67.6 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

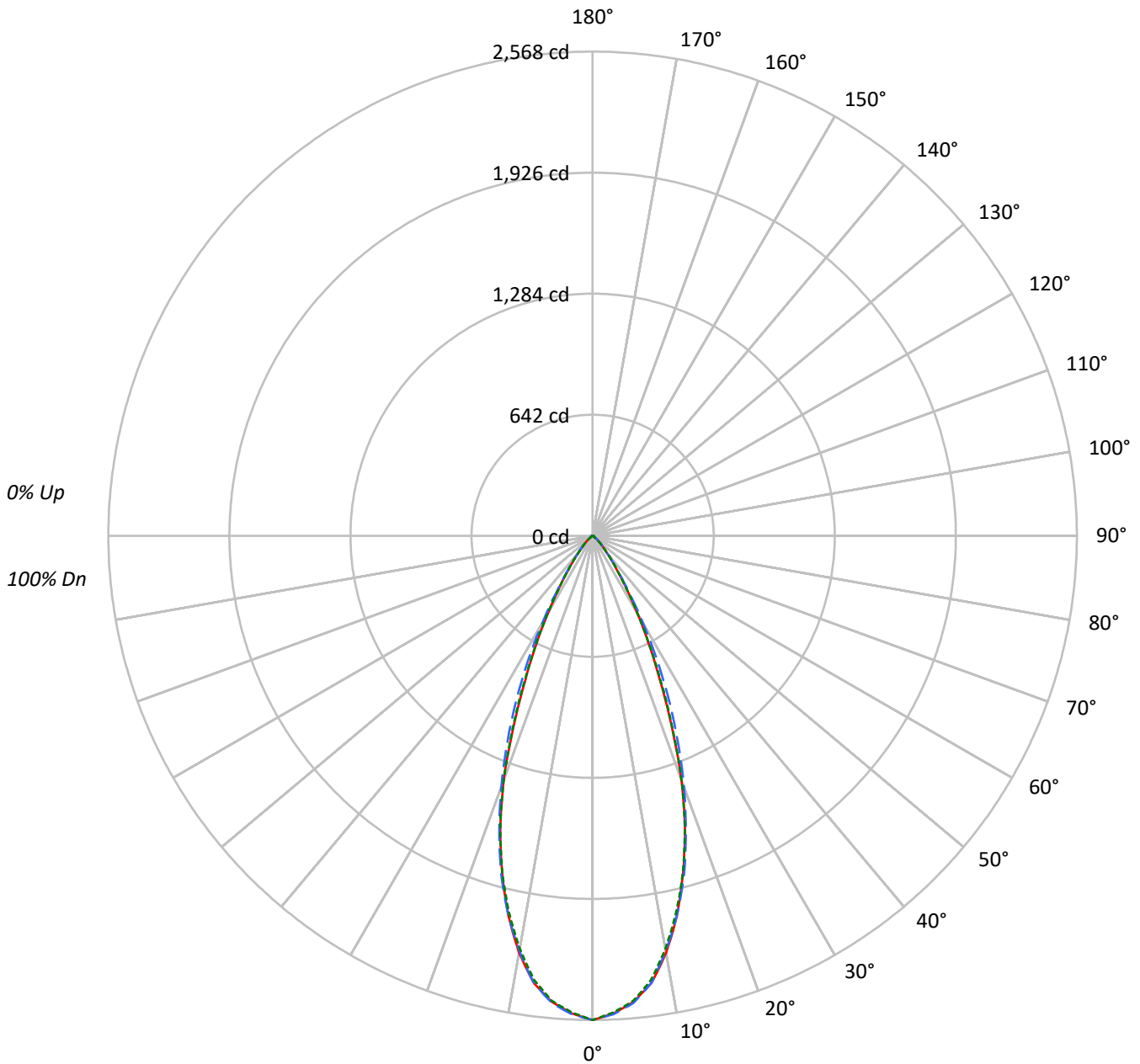
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1267101	1267101	1267101
5°	1229053	1231975	1226428
10°	1124984	1120476	1113762
15°	946296	955030	944763
20°	723641	742857	722434
25°	459553	518072	468480
30°	267239	301762	271968
35°	141296	150270	141717
40°	74580	77929	74580
45°	41724	43259	42212
50°	19495	24638	19495
55°	7053	13504	7741
60°	8091	8091	8091
65°	8755	9573	8755
70°	10819	9665	10819
75°	9912	9912	9912
80°	10512	8523	10512
85°	8491	8491	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.3	16.5
10°-20°	510.5	36.6
20°-30°	412.2	29.6
30°-40°	162.9	11.7
40°-50°	50.0	3.6
50°-60°	12.9	0.9
60°-70°	7.8	0.6
70°-80°	5.7	0.4
80°-90°	1.7	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°	1152.0	82.7
0°-40°	1314.9	94.4
0°-60°	1377.8	98.9
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2568	2568	2568	2568	2568	
5°	2482	2486	2488	2482	2476	230
15°	1853	1858	1870	1862	1850	509
25°	844	884	952	901	861	393
35°	235	241	250	242	235	157
45°	60	60	62	61	60	49
55°	8	11	16	11	9	10
65°	8	8	8	8	8	8
75°	5	5	5	5	5	6
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°	2568.3	2568.3	2568.3	2568.3	2568.3
2.5°	2536.2	2537.7	2539.9	2536.9	2529.5
5°	2481.7	2486.1	2487.6	2482.4	2476.4
7.5°	2392.0	2386.8	2391.3	2382.3	2374.8
10°	2245.6	2238.9	2236.6	2223.2	2223.2
12.5°	2064.8	2062.6	2064.1	2057.3	2046.9
15°	1852.7	1857.9	1869.8	1862.4	1849.7
17.5°	1627.8	1635.3	1645.7	1643.5	1626.3
20°	1378.3	1400.0	1414.9	1400.7	1376.0
22.5°	1094.4	1140.7	1178.8	1148.9	1108.6
25°	844.2	884.5	951.7	900.9	860.6
27.5°	640.2	669.3	730.6	680.6	652.9
30°	469.1	487.1	529.7	496.8	477.4
32.5°	335.4	348.1	366.0	346.6	336.9
35°	234.6	241.3	249.5	242.0	235.3
37.5°	165.1	167.3	173.3	167.3	164.3
40°	115.8	116.5	121.0	117.3	115.8
42.5°	83.7	83.7	85.9	84.4	83.7
45°	59.8	60.5	62.0	61.3	60.5
47.5°	42.6	44.1	44.1	44.8	41.8
50°	25.4	31.4	32.1	31.4	25.4
52.5°	13.4	18.7	23.2	18.7	13.4
55°	8.2	11.2	15.7	11.2	9.0
57.5°	8.2	8.2	10.5	9.0	8.2
60°	8.2	8.2	8.2	8.2	8.2
62.5°	8.2	8.2	8.2	8.2	8.2
65°	7.5	8.2	8.2	8.2	7.5
67.5°	7.5	7.5	7.5	7.5	7.5
70°	7.5	7.5	6.7	7.5	7.5
72.5°	6.7	6.7	6.0	6.7	6.7
75°	5.2	5.2	5.2	5.2	5.2
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.7	3.7	3.0	3.7	3.7
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)