

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: P315854

Luminaire Tested: **LDA2B20WFL9040D010 PINW1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315854  
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: LDA2B20WFL9040D010 PINW1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, White oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1478.5 lumens  
Efficiency: N/A  
Efficacy: 71.8 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

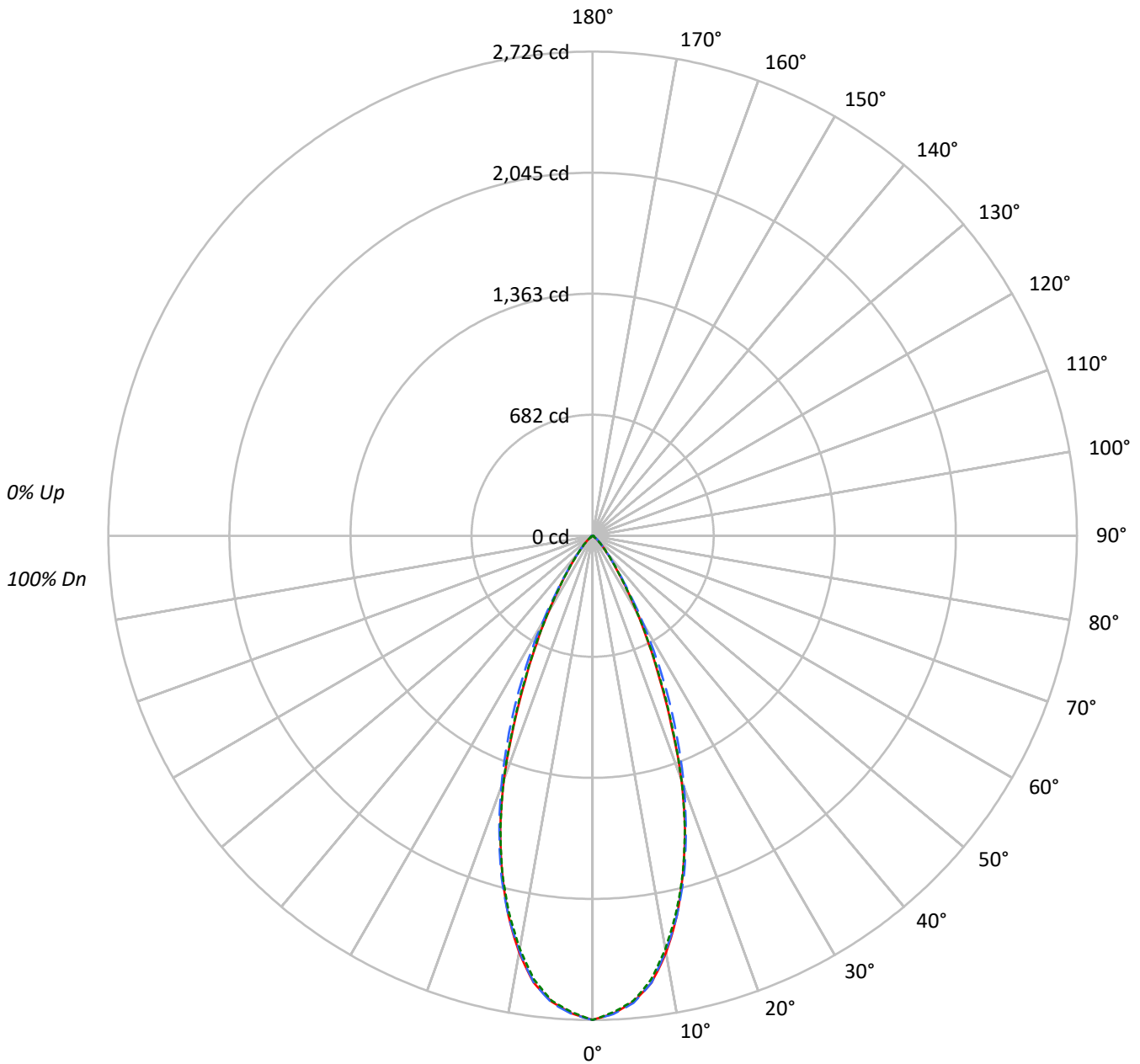
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1344806	1344806	1344806
5°	1304429	1307549	1301656
10°	1193968	1189209	1182045
15°	1004319	1013615	1002684
20°	768006	788430	766746
25°	487696	549863	497223
30°	283646	320220	288602
35°	149969	159485	150450
40°	79152	82694	79152
45°	44235	45910	44794
50°	20723	26173	20723
55°	7483	14365	8171
60°	8584	8584	8584
65°	9222	10156	9222
70°	11396	10242	11396
75°	10675	10675	10675
80°	11365	9092	11365
85°	9057	9057	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.3	16.5
10°-20°	541.8	36.6
20°-30°	437.5	29.6
30°-40°	172.9	11.7
40°-50°	53.1	3.6
50°-60°	13.7	0.9
60°-70°	8.3	0.6
70°-80°	6.1	0.4
80°-90°	1.8	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°	1222.6	82.7
0°-40°	1395.5	94.4
0°-60°	1462.3	98.9
0°-90°	1478.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1478.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2634	2639	2640	2635	2628	244
15°	1966	1972	1984	1977	1963	540
25°	896	939	1010	956	913	417
35°	249	256	265	257	250	167
45°	63	64	66	65	64	52
55°	9	12	17	12	10	11
65°	8	9	9	9	8	8
75°	6	6	6	6	6	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°	2725.8	2725.8	2725.8	2725.8	2725.8
2.5°	2691.8	2693.3	2695.7	2692.5	2684.6
5°	2633.9	2638.6	2640.2	2634.7	2628.3
7.5°	2538.7	2533.2	2537.9	2528.4	2520.5
10°	2383.3	2376.2	2373.8	2359.5	2359.5
12.5°	2191.5	2189.1	2190.7	2183.5	2172.4
15°	1966.3	1971.8	1984.5	1976.6	1963.1
17.5°	1727.6	1735.6	1746.7	1744.3	1726.1
20°	1462.8	1485.8	1501.7	1486.6	1460.4
22.5°	1161.5	1210.7	1251.1	1219.4	1176.6
25°	895.9	938.7	1010.1	956.2	913.4
27.5°	679.5	710.4	775.4	722.3	693.0
30°	497.9	516.9	562.1	527.3	506.6
32.5°	356.0	369.5	388.5	367.9	357.6
35°	249.0	256.1	264.8	256.9	249.8
37.5°	175.2	177.6	183.9	177.6	174.4
40°	122.9	123.7	128.4	124.5	122.9
42.5°	88.8	88.8	91.2	89.6	88.8
45°	63.4	64.2	65.8	65.0	64.2
47.5°	45.2	46.8	46.8	47.6	44.4
50°	27.0	33.3	34.1	33.3	27.0
52.5°	14.3	19.8	24.6	19.8	14.3
55°	8.7	11.9	16.7	11.9	9.5
57.5°	8.7	8.7	11.1	9.5	8.7
60°	8.7	8.7	8.7	8.7	8.7
62.5°	8.7	8.7	8.7	8.7	8.7
65°	7.9	8.7	8.7	8.7	7.9
67.5°	7.9	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.1	7.9	7.9
72.5°	7.1	7.1	6.3	7.1	7.1
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.8	4.8	4.8	4.8	4.8
80°	4.0	4.0	3.2	4.0	4.0
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)