

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: P315871

Luminaire Tested: **LDA2B20WFL9730D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315871  
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: LDA2B20WFL9730D010 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**

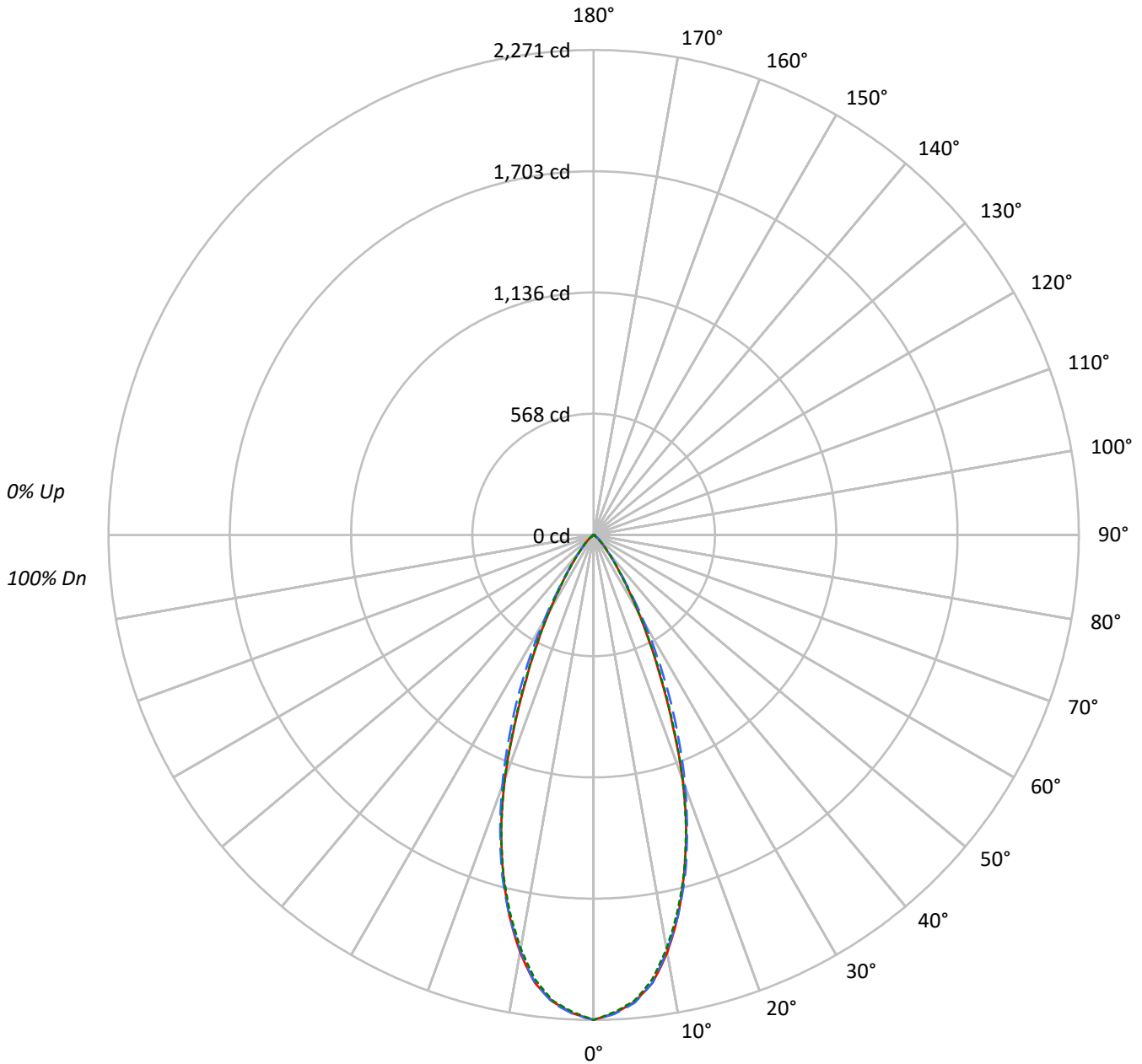
Lumens per Lamp: N/A  
Luminaire Lumens: 1231.7 lumens  
Efficiency: N/A  
Efficacy: 59.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	1120326	1120326	1120326
5°	1086620	1089245	1084342
10°	994631	990673	984712
15°	836634	844398	835306
20°	639795	656806	638745
25°	406314	458083	414207
30°	236305	266784	240464
35°	124914	132864	125335
40°	65949	68912	65949
45°	36840	38235	37328
50°	17270	21798	17270
55°	6279	11956	6795
60°	7203	7203	7203
65°	7705	8522	7705
70°	9520	8511	9520
75°	8769	8769	8769
80°	9376	7387	9376
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.7	16.5
10°-20°	451.3	36.6
20°-30°	364.5	29.6
30°-40°	144.1	11.7
40°-50°	44.2	3.6
50°-60°	11.4	0.9
60°-70°	6.9	0.6
70°-80°	5.0	0.4
80°-90°	1.5	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°	1018.5	82.7
0°-40°	1162.6	94.4
0°-60°	1218.2	98.9
0°-90°	1231.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2271	2271	2271	2271	2271	
5°	2194	2198	2199	2195	2190	203
15°	1638	1643	1653	1647	1635	450
25°	746	782	842	796	761	347
35°	207	213	221	214	208	139
45°	53	54	55	54	54	43
55°	7	10	14	10	8	9
65°	7	7	7	7	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2270.8	2270.8	2270.8	2270.8	2270.8
2.5°	2242.4	2243.7	2245.7	2243.0	2236.4
5°	2194.1	2198.1	2199.4	2194.8	2189.5
7.5°	2114.9	2110.3	2114.2	2106.3	2099.7
10°	1985.4	1979.5	1977.5	1965.6	1965.6
12.5°	1825.6	1823.6	1824.9	1819.0	1809.7
15°	1638.0	1642.6	1653.2	1646.6	1635.4
17.5°	1439.2	1445.8	1455.1	1453.1	1437.9
20°	1218.6	1237.8	1251.0	1238.4	1216.6
22.5°	967.6	1008.6	1042.2	1015.8	980.2
25°	746.4	782.0	841.5	796.5	760.9
27.5°	566.0	591.8	646.0	601.7	577.3
30°	414.8	430.6	468.3	439.2	422.1
32.5°	296.6	307.8	323.6	306.5	297.9
35°	207.4	213.3	220.6	214.0	208.1
37.5°	146.0	147.9	153.2	147.9	145.3
40°	102.4	103.0	107.0	103.7	102.4
42.5°	74.0	74.0	76.0	74.6	74.0
45°	52.8	53.5	54.8	54.2	53.5
47.5°	37.6	39.0	39.0	39.6	37.0
50°	22.5	27.7	28.4	27.7	22.5
52.5°	11.9	16.5	20.5	16.5	11.9
55°	7.3	9.9	13.9	9.9	7.9
57.5°	7.3	7.3	9.2	7.9	7.3
60°	7.3	7.3	7.3	7.3	7.3
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.6	7.3	7.3	7.3	6.6
67.5°	6.6	6.6	6.6	6.6	6.6
70°	6.6	6.6	5.9	6.6	6.6
72.5°	5.9	5.9	5.3	5.9	5.9
75°	4.6	4.6	4.6	4.6	4.6
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.3	3.3	2.6	3.3	3.3
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
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)