

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: P315838

Luminaire Tested: **LDA2B20WFL9030D010 PINW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315838  
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: LDA2B20WFL9030D010 PINW1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

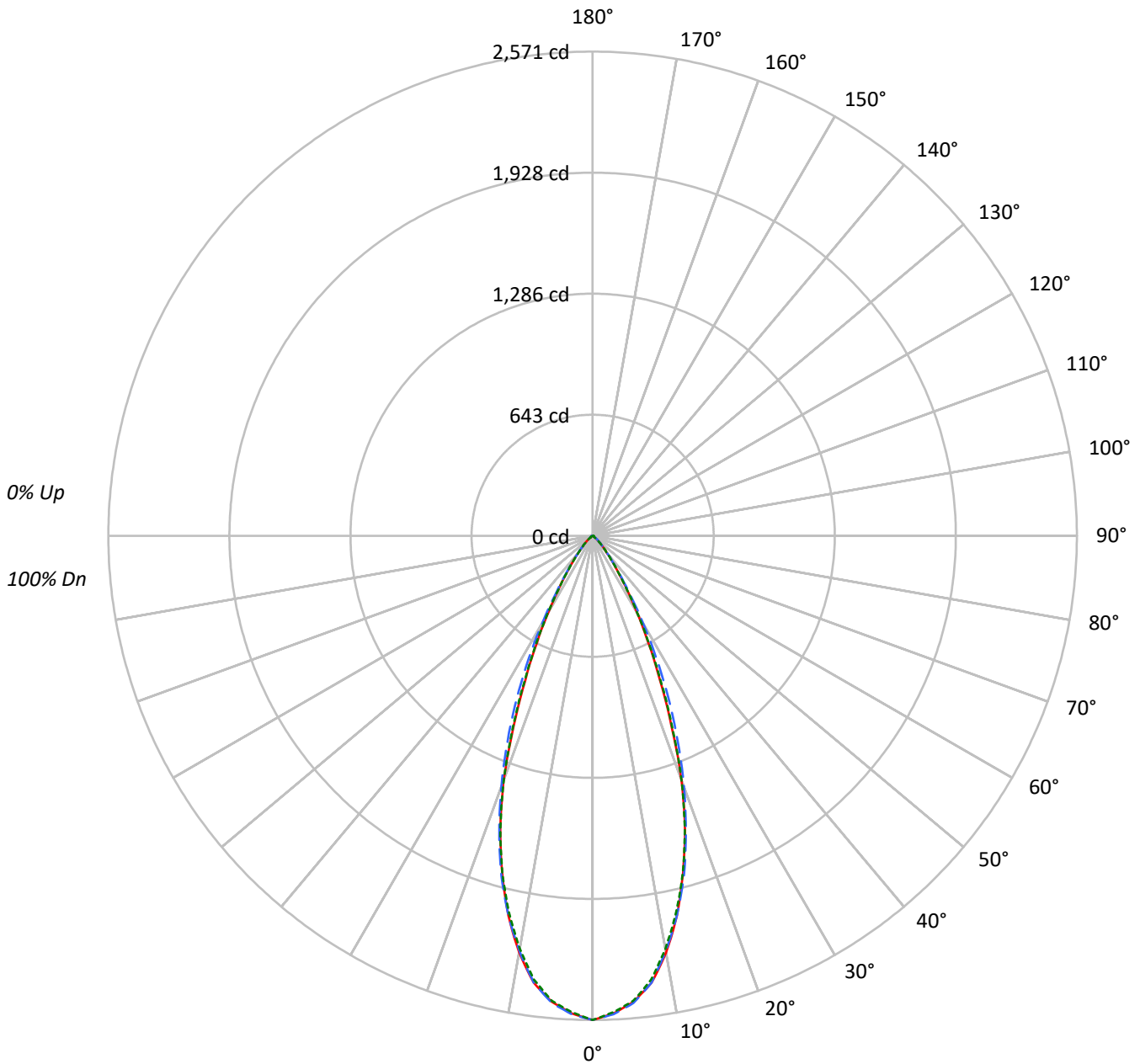
Lumens per Lamp: N/A  
Luminaire Lumens: 1394.4 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	1268433	1268433	1268433
5°	1230291	1233262	1227716
10°	1126137	1121628	1114915
15°	947266	956051	945734
20°	724377	743645	723221
25°	459988	518616	468970
30°	267524	302047	272253
35°	141416	150450	141898
40°	74644	77993	74644
45°	41724	43328	42282
50°	19495	24715	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°	229.5	16.5
10°-20°	511.0	36.6
20°-30°	412.7	29.6
30°-40°	163.1	11.7
40°-50°	50.1	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°	1153.2	82.7
0°-40°	1316.3	94.4
0°-60°	1379.3	98.9
0°-90°	1394.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1394.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2571	2571	2571	2571	2571	
5°	2484	2489	2490	2485	2479	230
15°	1855	1860	1872	1864	1852	509
25°	845	885	953	902	862	393
35°	235	242	250	242	236	157
45°	60	61	62	61	61	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°	2571.0	2571.0	2571.0	2571.0	2571.0
2.5°	2538.8	2540.3	2542.6	2539.6	2532.1
5°	2484.2	2488.7	2490.2	2485.0	2479.0
7.5°	2394.5	2389.3	2393.7	2384.8	2377.3
10°	2247.9	2241.2	2238.9	2225.5	2225.5
12.5°	2067.0	2064.7	2066.2	2059.5	2049.0
15°	1854.6	1859.8	1871.8	1864.3	1851.6
17.5°	1629.5	1637.0	1647.4	1645.2	1628.0
20°	1379.7	1401.4	1416.4	1402.1	1377.5
22.5°	1095.5	1141.9	1180.0	1150.1	1109.8
25°	845.0	885.4	952.7	901.9	861.5
27.5°	640.9	670.0	731.4	681.3	653.6
30°	469.6	487.6	530.2	497.3	477.9
32.5°	335.8	348.5	366.4	347.0	337.3
35°	234.8	241.5	249.8	242.3	235.6
37.5°	165.3	167.5	173.5	167.5	164.5
40°	115.9	116.7	121.1	117.4	115.9
42.5°	83.8	83.8	86.0	84.5	83.8
45°	59.8	60.6	62.1	61.3	60.6
47.5°	42.6	44.1	44.1	44.9	41.9
50°	25.4	31.4	32.2	31.4	25.4
52.5°	13.5	18.7	23.2	18.7	13.5
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)