

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: P315802

Luminaire Tested: **LDA2B20WFL8030D010 PINW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315802  
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: LDA2B20WFL8030D010 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**

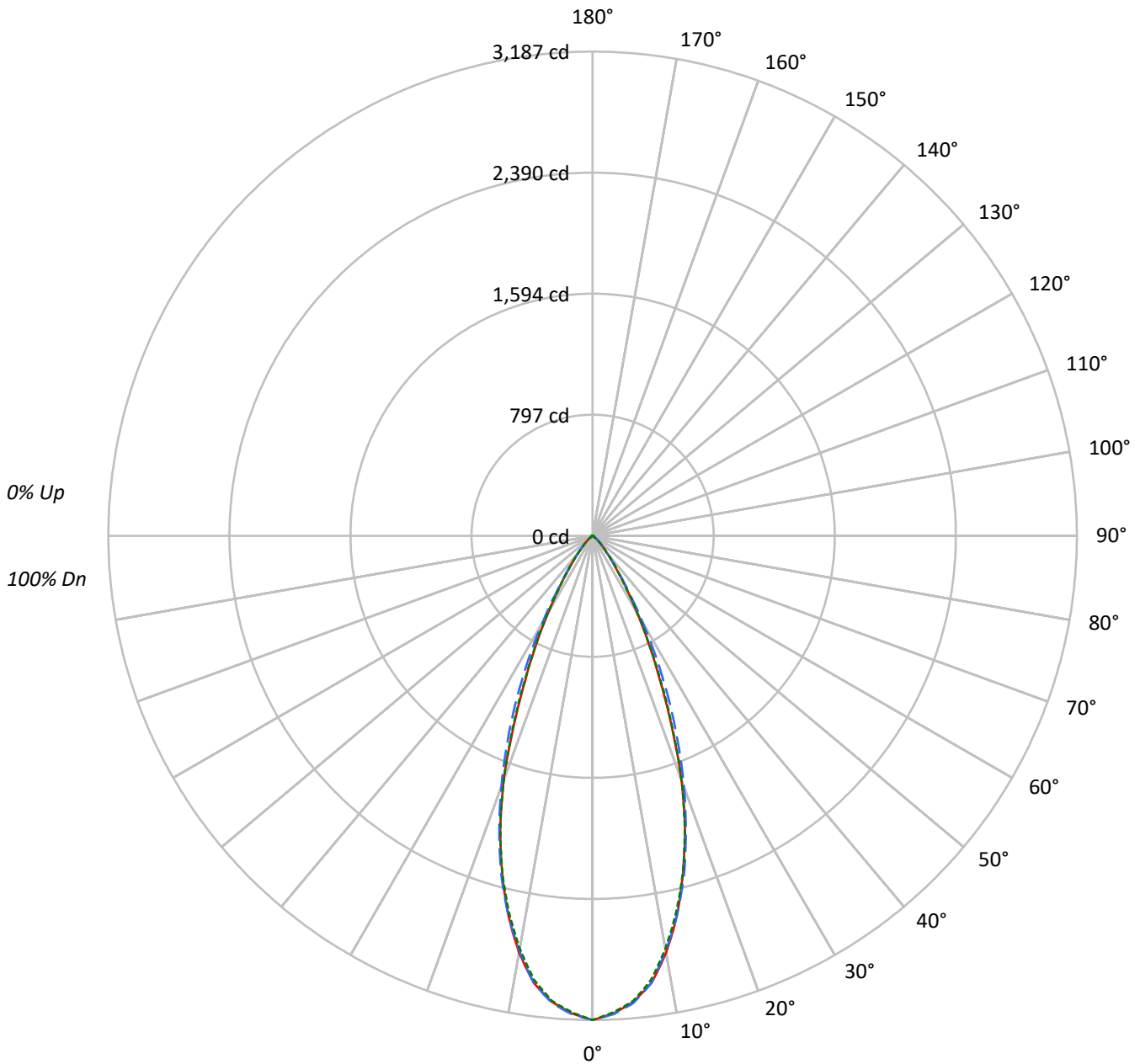
Lumens per Lamp: N/A  
Luminaire Lumens: 1728.8 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1572541	1572541	1572541
5°	1525260	1528974	1522090
10°	1396161	1390600	1382234
15°	1174353	1185232	1172463
20°	898055	921891	896585
25°	570276	642949	581381
30°	331671	374454	337481
35°	175325	186527	175867
40°	92548	96735	92548
45°	51771	53655	52399
50°	24177	30625	24177
55°	8774	16773	9548
60°	10065	10065	10065
65°	10857	11907	10857
70°	13415	11973	13415
75°	12390	12390	12390
80°	13069	10512	13069
85°	10755	10755	10755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.5	16.5
10°-20°	633.5	36.6
20°-30°	511.6	29.6
30°-40°	202.2	11.7
40°-50°	62.1	3.6
50°-60°	16.0	0.9
60°-70°	9.7	0.6
70°-80°	7.1	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°	1429.6	82.7
0°-40°	1631.8	94.4
0°-60°	1709.9	98.9
0°-90°	1728.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1728.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3187	3187	3187	3187	3187	
5°	3080	3085	3087	3081	3073	285
15°	2299	2306	2320	2311	2296	631
25°	1048	1098	1181	1118	1068	488
35°	291	300	310	300	292	195
45°	74	75	77	76	75	61
55°	10	14	20	14	11	13
65°	9	10	10	10	9	10
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°	3187.4	3187.4	3187.4	3187.4	3187.4
2.5°	3147.5	3149.4	3152.2	3148.5	3139.2
5°	3079.8	3085.4	3087.3	3080.8	3073.4
7.5°	2968.6	2962.1	2967.7	2956.5	2947.3
10°	2786.9	2778.5	2775.8	2759.1	2759.1
12.5°	2562.5	2559.7	2561.6	2553.3	2540.3
15°	2299.2	2305.7	2320.5	2311.3	2295.5
17.5°	2020.2	2029.4	2042.4	2039.6	2018.3
20°	1710.5	1737.4	1755.9	1738.3	1707.7
22.5°	1358.2	1415.7	1463.0	1425.9	1375.8
25°	1047.6	1097.7	1181.1	1118.1	1068.0
27.5°	794.5	830.7	906.7	844.6	810.3
30°	582.2	604.5	657.3	616.5	592.4
32.5°	416.3	432.0	454.3	430.2	418.1
35°	291.1	299.5	309.7	300.4	292.0
37.5°	204.9	207.7	215.1	207.7	204.0
40°	143.7	144.6	150.2	145.6	143.7
42.5°	103.8	103.8	106.6	104.8	103.8
45°	74.2	75.1	76.9	76.0	75.1
47.5°	52.8	54.7	54.7	55.6	51.9
50°	31.5	38.9	39.9	38.9	31.5
52.5°	16.7	23.2	28.7	23.2	16.7
55°	10.2	13.9	19.5	13.9	11.1
57.5°	10.2	10.2	13.0	11.1	10.2
60°	10.2	10.2	10.2	10.2	10.2
62.5°	10.2	10.2	10.2	10.2	10.2
65°	9.3	10.2	10.2	10.2	9.3
67.5°	9.3	9.3	9.3	9.3	9.3
70°	9.3	9.3	8.3	9.3	9.3
72.5°	8.3	8.3	7.4	8.3	8.3
75°	6.5	6.5	6.5	6.5	6.5
77.5°	5.6	5.6	5.6	5.6	5.6
80°	4.6	4.6	3.7	4.6	4.6
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.9	1.9	1.9	1.9	1.9
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)