

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: P315814

Luminaire Tested: **LDA2B20WFL8040D010 PINW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315814  
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: LDA2B20WFL8040D010 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: 1819.5 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

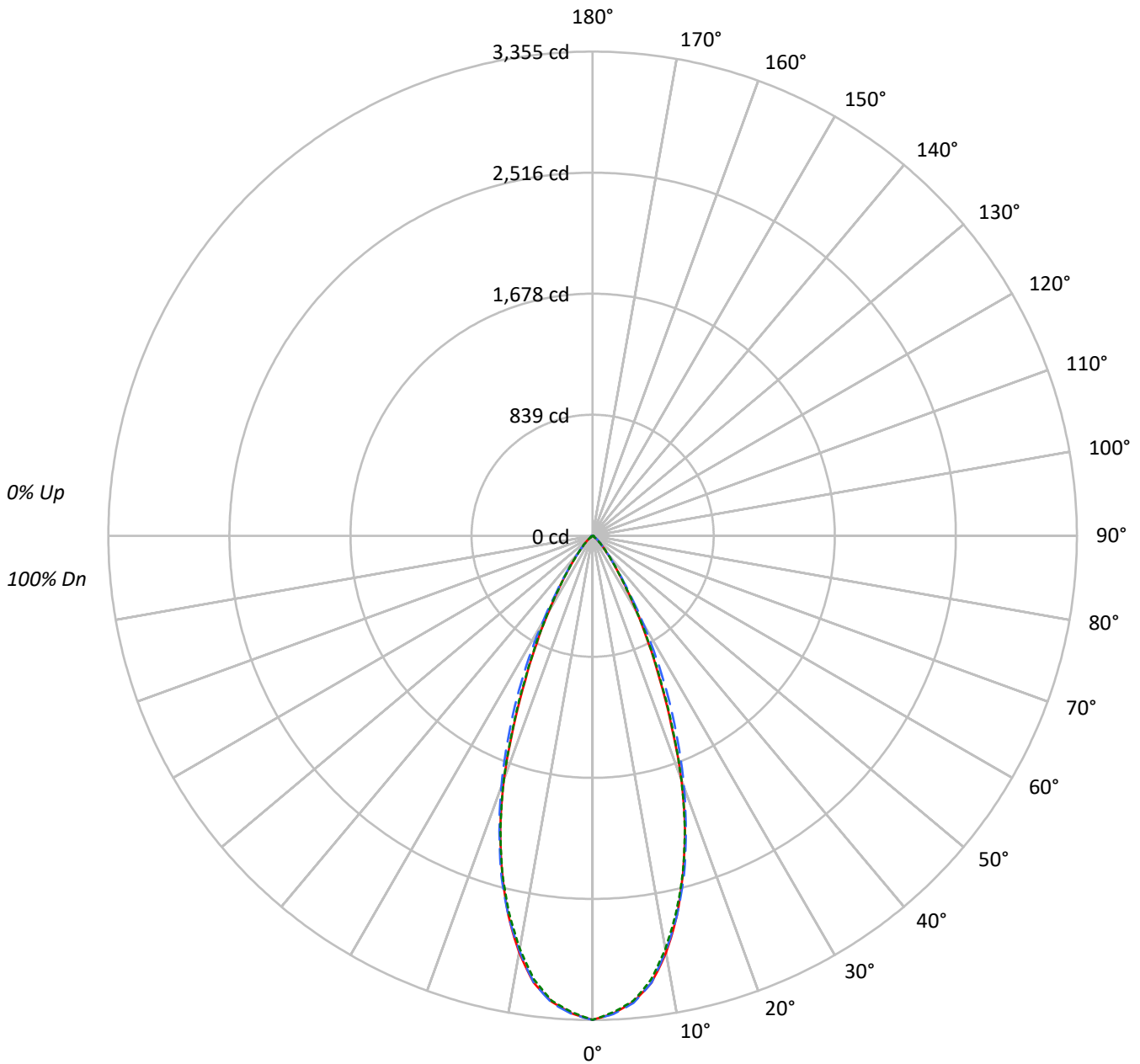
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1655031	1655031	1655031
5°	1605292	1609154	1601924
10°	1469403	1463492	1454724
15°	1235951	1247443	1233959
20°	945149	970246	943627
25°	600216	676700	611866
30°	349103	394108	355199
35°	184540	196284	185142
40°	97379	101822	97379
45°	54492	56515	55120
50°	25482	32236	25482
55°	9204	17633	10064
60°	10558	10558	10558
65°	11440	12491	11440
70°	14136	12694	14136
75°	12962	12962	12962
80°	13922	11081	13922
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.4	16.5
10°-20°	666.7	36.6
20°-30°	538.5	29.6
30°-40°	212.8	11.7
40°-50°	65.3	3.6
50°-60°	16.8	0.9
60°-70°	10.2	0.6
70°-80°	7.5	0.4
80°-90°	2.2	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°	1504.6	82.7
0°-40°	1717.4	94.4
0°-60°	1799.6	98.9
0°-90°	1819.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3355	3355	3355	3355	3355	
5°	3241	3247	3249	3242	3235	300
15°	2420	2427	2442	2432	2416	665
25°	1103	1155	1243	1177	1124	513
35°	306	315	326	316	307	205
45°	78	79	81	80	79	64
55°	11	15	20	15	12	14
65°	10	11	11	11	10	10
75°	7	7	7	7	7	8
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°	3354.6	3354.6	3354.6	3354.6	3354.6
2.5°	3312.6	3314.6	3317.5	3313.6	3303.8
5°	3241.4	3247.2	3249.2	3242.4	3234.6
7.5°	3124.3	3117.5	3123.3	3111.6	3101.9
10°	2933.1	2924.3	2921.3	2903.8	2903.8
12.5°	2696.9	2694.0	2696.0	2687.2	2673.5
15°	2419.8	2426.7	2442.3	2432.5	2415.9
17.5°	2126.1	2135.9	2149.5	2146.6	2124.2
20°	1800.2	1828.5	1848.0	1829.5	1797.3
22.5°	1429.5	1489.9	1539.7	1500.7	1448.0
25°	1102.6	1155.3	1243.1	1176.7	1124.0
27.5°	836.2	874.3	954.3	888.9	852.8
30°	612.8	636.2	691.8	648.9	623.5
32.5°	438.1	454.7	478.1	452.7	440.1
35°	306.4	315.2	325.9	316.1	307.4
37.5°	215.6	218.6	226.4	218.6	214.7
40°	151.2	152.2	158.1	153.2	151.2
42.5°	109.3	109.3	112.2	110.3	109.3
45°	78.1	79.0	81.0	80.0	79.0
47.5°	55.6	57.6	57.6	58.5	54.6
50°	33.2	41.0	42.0	41.0	33.2
52.5°	17.6	24.4	30.2	24.4	17.6
55°	10.7	14.6	20.5	14.6	11.7
57.5°	10.7	10.7	13.7	11.7	10.7
60°	10.7	10.7	10.7	10.7	10.7
62.5°	10.7	10.7	10.7	10.7	10.7
65°	9.8	10.7	10.7	10.7	9.8
67.5°	9.8	9.8	9.8	9.8	9.8
70°	9.8	9.8	8.8	9.8	9.8
72.5°	8.8	8.8	7.8	8.8	8.8
75°	6.8	6.8	6.8	6.8	6.8
77.5°	5.9	5.9	5.9	5.9	5.9
80°	4.9	4.9	3.9	4.9	4.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)