

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: P315853

Luminaire Tested: **LDA2B20WFL9040D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315853  
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 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: 1422.6 lumens  
Efficiency: N/A  
Efficacy: 69.1 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

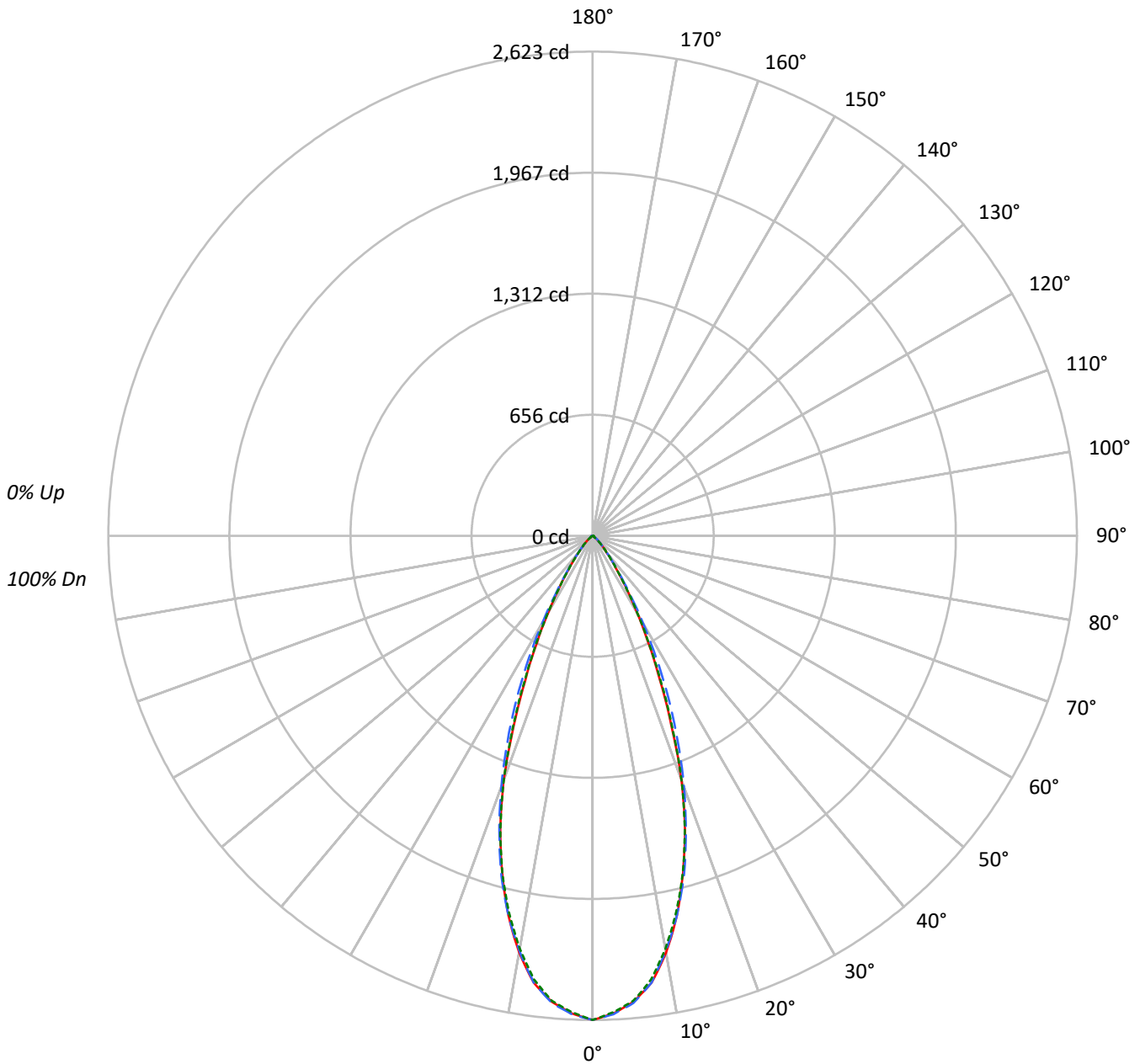
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1294039	1294039	1294039
5°	1255152	1258173	1252528
10°	1148881	1144322	1137458
15°	966369	975358	964836
20°	739025	758661	737817
25°	469297	529122	478442
30°	272936	308143	277721
35°	144307	153462	144729
40°	76190	79603	76190
45°	42561	44166	43119
50°	19879	25175	19879
55°	7225	13762	7913
60°	8288	8288	8288
65°	8872	9806	8872
70°	10963	9953	10963
75°	10103	10103	10103
80°	10796	8808	10796
85°	8491	8491	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.1	16.5
10°-20°	521.3	36.6
20°-30°	421.0	29.6
30°-40°	166.4	11.7
40°-50°	51.1	3.6
50°-60°	13.2	0.9
60°-70°	8.0	0.6
70°-80°	5.8	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°	1176.5	82.7
0°-40°	1342.9	94.4
0°-60°	1407.1	98.9
0°-90°	1422.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2623	2623	2623	2623	2623	
5°	2534	2539	2540	2535	2529	235
15°	1892	1897	1910	1902	1889	520
25°	862	903	972	920	879	401
35°	240	246	255	247	240	160
45°	61	62	63	63	62	50
55°	8	11	16	11	9	11
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°	2622.9	2622.9	2622.9	2622.9	2622.9
2.5°	2590.1	2591.6	2593.9	2590.9	2583.3
5°	2534.4	2539.0	2540.5	2535.2	2529.1
7.5°	2442.9	2437.5	2442.1	2433.0	2425.3
10°	2293.3	2286.5	2284.2	2270.5	2270.5
12.5°	2108.7	2106.4	2108.0	2101.1	2090.4
15°	1892.0	1897.4	1909.6	1902.0	1889.0
17.5°	1662.4	1670.0	1680.7	1678.4	1660.9
20°	1407.6	1429.7	1445.0	1430.5	1405.3
22.5°	1117.7	1165.0	1203.9	1173.4	1132.2
25°	862.1	903.3	972.0	920.1	878.9
27.5°	653.8	683.6	746.1	695.0	666.8
30°	479.1	497.4	540.9	507.3	487.5
32.5°	342.6	355.5	373.8	354.0	344.1
35°	239.6	246.4	254.8	247.2	240.3
37.5°	168.6	170.9	177.0	170.9	167.8
40°	118.3	119.0	123.6	119.8	118.3
42.5°	85.4	85.4	87.7	86.2	85.4
45°	61.0	61.8	63.3	62.6	61.8
47.5°	43.5	45.0	45.0	45.8	42.7
50°	25.9	32.0	32.8	32.0	25.9
52.5°	13.7	19.1	23.7	19.1	13.7
55°	8.4	11.4	16.0	11.4	9.2
57.5°	8.4	8.4	10.7	9.2	8.4
60°	8.4	8.4	8.4	8.4	8.4
62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.6	8.4	8.4	8.4	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.9	7.6	7.6
72.5°	6.9	6.9	6.1	6.9	6.9
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.8	3.8	3.1	3.8	3.8
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.5	1.5	1.5	1.5	1.5
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)