

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: P315861

Luminaire Tested: **LDA2B20WFL9727D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315861  
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: LDA2B20WFL9727D010 PIN1MW  
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**

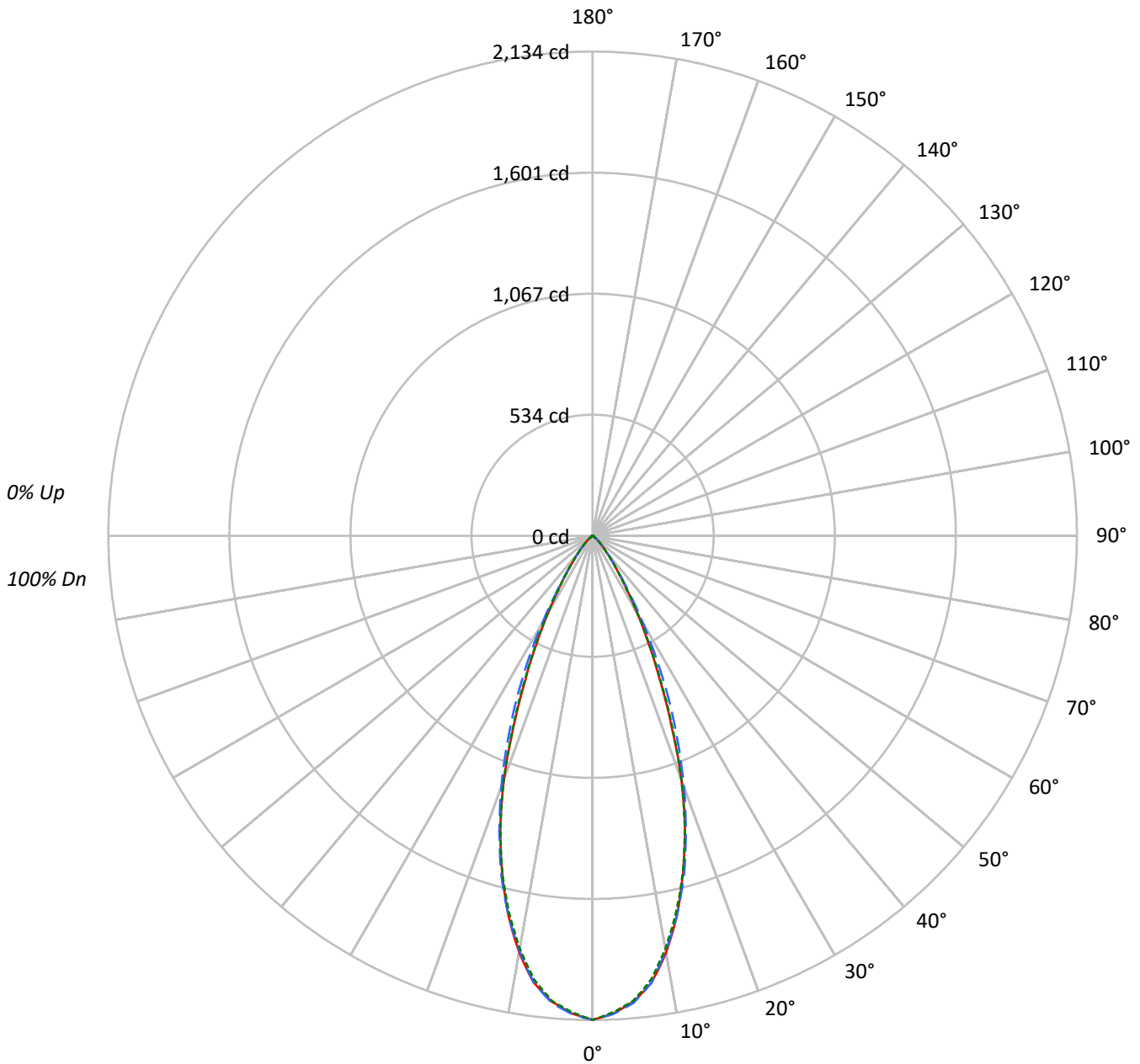
Lumens per Lamp: N/A  
Luminaire Lumens: 1157.2 lumens  
Efficiency: N/A  
Efficacy: 56.2 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	1052637	1052637	1052637
5°	1021000	1023476	1018870
10°	934565	930807	925246
15°	786120	793372	784843
20°	601153	617114	600156
25°	381763	430375	389166
30°	222006	250661	225937
35°	117385	124853	117746
40°	61956	64726	61956
45°	34607	35933	35095
50°	16195	20493	16195
55°	5849	11182	6365
60°	6710	6710	6710
65°	7238	7938	7238
70°	8943	8078	8943
75°	8197	8197	8197
80°	8808	7103	8808
85°	6793	6793	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.5	16.5
10°-20°	424.1	36.6
20°-30°	342.5	29.6
30°-40°	135.4	11.7
40°-50°	41.6	3.6
50°-60°	10.7	0.9
60°-70°	6.5	0.6
70°-80°	4.7	0.4
80°-90°	1.4	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°	957.0	82.7
0°-40°	1092.3	94.4
0°-60°	1144.6	98.9
0°-90°	1157.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2062	2065	2067	2062	2057	191
15°	1539	1543	1553	1547	1537	423
25°	701	735	791	748	715	326
35°	195	200	207	201	196	131
45°	50	50	52	51	50	41
55°	7	9	13	9	7	9
65°	6	7	7	7	6	6
75°	4	4	4	4	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2133.6	2133.6	2133.6	2133.6	2133.6
2.5°	2106.9	2108.1	2110.0	2107.5	2101.3
5°	2061.6	2065.3	2066.6	2062.2	2057.3
7.5°	1987.1	1982.8	1986.5	1979.1	1972.9
10°	1865.5	1859.9	1858.0	1846.9	1846.9
12.5°	1715.3	1713.4	1714.7	1709.1	1700.4
15°	1539.1	1543.4	1553.3	1547.1	1536.6
17.5°	1352.3	1358.5	1367.2	1365.3	1351.0
20°	1145.0	1163.0	1175.4	1163.6	1143.1
22.5°	909.2	947.6	979.3	954.5	921.0
25°	701.3	734.8	790.6	748.4	714.9
27.5°	531.8	556.0	606.9	565.4	542.4
30°	389.7	404.6	440.0	412.7	396.6
32.5°	278.6	289.2	304.1	288.0	279.9
35°	194.9	200.5	207.3	201.1	195.5
37.5°	137.2	139.0	144.0	139.0	136.5
40°	96.2	96.8	100.5	97.4	96.2
42.5°	69.5	69.5	71.4	70.1	69.5
45°	49.6	50.3	51.5	50.9	50.3
47.5°	35.4	36.6	36.6	37.2	34.8
50°	21.1	26.1	26.7	26.1	21.1
52.5°	11.2	15.5	19.2	15.5	11.2
55°	6.8	9.3	13.0	9.3	7.4
57.5°	6.8	6.8	8.7	7.4	6.8
60°	6.8	6.8	6.8	6.8	6.8
62.5°	6.8	6.8	6.8	6.8	6.8
65°	6.2	6.8	6.8	6.8	6.2
67.5°	6.2	6.2	6.2	6.2	6.2
70°	6.2	6.2	5.6	6.2	6.2
72.5°	5.6	5.6	5.0	5.6	5.6
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.7	3.7	3.7	3.7	3.7
80°	3.1	3.1	2.5	3.1	3.1
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)