

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: P315866

Luminaire Tested: **LDA2B20WFL9727D010 PINW1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315866  
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 PINW1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, White oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1202.6 lumens  
Efficiency: N/A  
Efficacy: 58.4 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

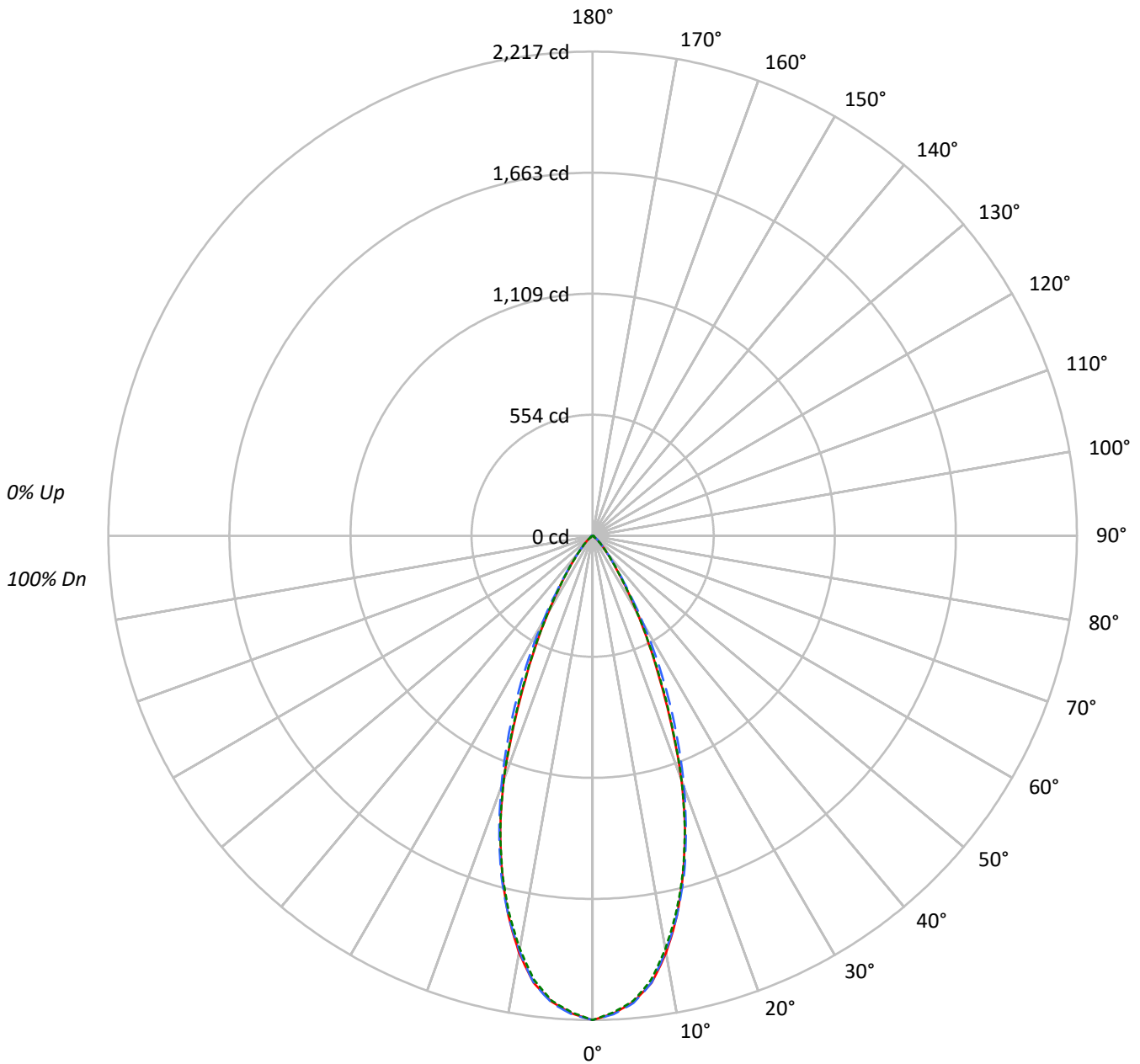
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1093931	1093931	1093931
5°	1061065	1063591	1058837
10°	971236	967328	961517
15°	816970	824529	815642
20°	624727	641318	623729
25°	396733	447304	404463
30°	230722	260517	234767
35°	121962	129732	122384
40°	64404	67302	64404
45°	36002	37328	36421
50°	16809	21261	16809
55°	6107	11612	6623
60°	7006	7006	7006
65°	7471	8288	7471
70°	9232	8366	9232
75°	8578	8578	8578
80°	9092	7387	9092
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.9	16.5
10°-20°	440.7	36.6
20°-30°	355.9	29.6
30°-40°	140.7	11.7
40°-50°	43.2	3.6
50°-60°	11.1	0.9
60°-70°	6.7	0.6
70°-80°	4.9	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°	994.5	82.7
0°-40°	1135.2	94.4
0°-60°	1189.5	98.9
0°-90°	1202.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2142	2146	2148	2143	2138	198
15°	1600	1604	1614	1608	1597	439
25°	729	764	822	778	743	339
35°	202	208	215	209	203	136
45°	52	52	54	53	52	42
55°	7	10	14	10	8	9
65°	6	7	7	7	6	7
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°	2217.3	2217.3	2217.3	2217.3	2217.3
2.5°	2189.6	2190.9	2192.8	2190.2	2183.8
5°	2142.5	2146.4	2147.6	2143.1	2138.0
7.5°	2065.1	2060.6	2064.5	2056.7	2050.3
10°	1938.7	1932.9	1930.9	1919.3	1919.3
12.5°	1782.6	1780.7	1782.0	1776.2	1767.1
15°	1599.5	1604.0	1614.3	1607.8	1596.9
17.5°	1405.3	1411.8	1420.8	1418.9	1404.0
20°	1189.9	1208.6	1221.5	1209.3	1188.0
22.5°	944.8	984.8	1017.7	991.9	957.1
25°	728.8	763.6	821.7	777.8	743.0
27.5°	552.7	577.9	630.8	587.5	563.7
30°	405.0	420.5	457.3	428.9	412.1
32.5°	289.6	300.5	316.0	299.3	290.9
35°	202.5	208.3	215.4	209.0	203.2
37.5°	142.5	144.5	149.6	144.5	141.9
40°	100.0	100.6	104.5	101.3	100.0
42.5°	72.2	72.2	74.2	72.9	72.2
45°	51.6	52.2	53.5	52.9	52.2
47.5°	36.8	38.1	38.1	38.7	36.1
50°	21.9	27.1	27.7	27.1	21.9
52.5°	11.6	16.1	20.0	16.1	11.6
55°	7.1	9.7	13.5	9.7	7.7
57.5°	7.1	7.1	9.0	7.7	7.1
60°	7.1	7.1	7.1	7.1	7.1
62.5°	7.1	7.1	7.1	7.1	7.1
65°	6.4	7.1	7.1	7.1	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	6.4	6.4	5.8	6.4	6.4
72.5°	5.8	5.8	5.2	5.8	5.8
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.2	3.2	2.6	3.2	3.2
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.3	1.3	1.3	1.3	1.3
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)