

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: P315833

Luminaire Tested: **LDA2B20WFL9027D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315833  
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: LDA2B20WFL9027D010 PIN1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1286.1 lumens  
Efficiency: N/A  
Efficacy: 62.4 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

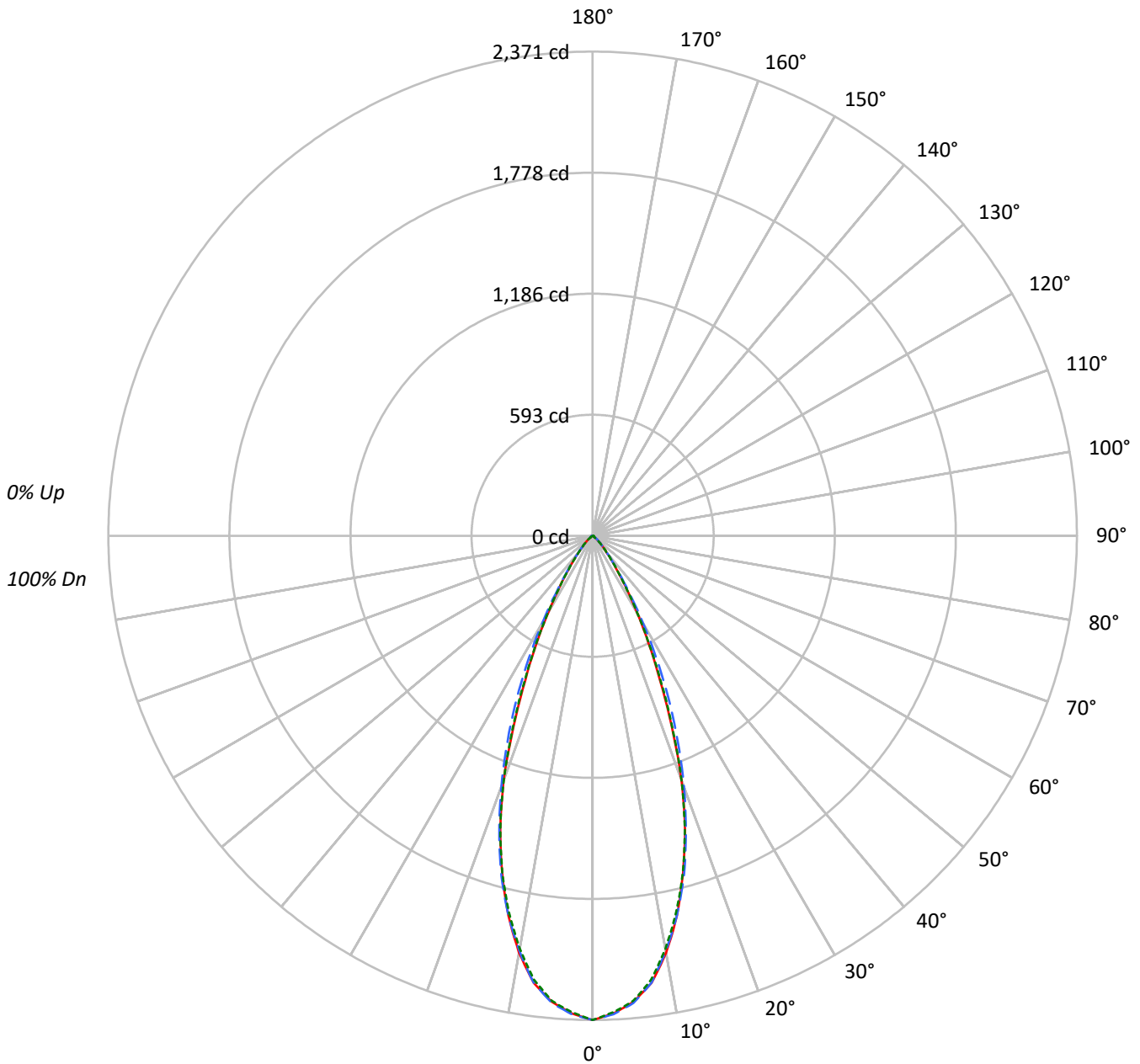
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1169859	1169859	1169859
5°	1134708	1137432	1132331
10°	1038667	1034509	1028297
15°	873665	881786	872235
20°	668094	685840	667044
25°	424278	478333	432552
30°	246731	278576	251060
35°	130455	138766	130876
40°	68848	71939	68848
45°	38514	39910	39002
50°	18037	22796	18037
55°	6537	12472	7139
60°	7499	7499	7499
65°	8055	8872	8055
70°	9953	8943	9953
75°	9150	9150	9150
80°	9660	7955	9660
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	16.5
10°-20°	471.3	36.6
20°-30°	380.6	29.6
30°-40°	150.4	11.7
40°-50°	46.2	3.6
50°-60°	11.9	0.9
60°-70°	7.2	0.6
70°-80°	5.3	0.4
80°-90°	1.6	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°	1063.6	82.7
0°-40°	1214.0	94.4
0°-60°	1272.1	98.9
0°-90°	1286.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1286.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2371	2371	2371	2371	2371	
5°	2291	2295	2297	2292	2286	212
15°	1710	1715	1726	1720	1708	470
25°	779	817	879	832	795	363
35°	217	223	230	224	217	145
45°	55	56	57	57	56	45
55°	8	10	14	10	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2371.2	2371.2	2371.2	2371.2	2371.2
2.5°	2341.6	2343.0	2345.0	2342.3	2335.4
5°	2291.2	2295.4	2296.7	2291.9	2286.4
7.5°	2208.5	2203.6	2207.8	2199.5	2192.6
10°	2073.3	2067.1	2065.0	2052.6	2052.6
12.5°	1906.4	1904.3	1905.7	1899.5	1889.8
15°	1710.5	1715.3	1726.4	1719.5	1707.7
17.5°	1502.9	1509.8	1519.4	1517.4	1501.5
20°	1272.5	1292.5	1306.3	1293.2	1270.5
22.5°	1010.4	1053.2	1088.4	1060.8	1023.5
25°	779.4	816.6	878.7	831.8	794.6
27.5°	591.1	618.0	674.5	628.3	602.8
30°	433.1	449.7	489.0	458.7	440.7
32.5°	309.7	321.4	338.0	320.0	311.1
35°	216.6	222.8	230.4	223.5	217.3
37.5°	152.4	154.5	160.0	154.5	151.7
40°	106.9	107.6	111.7	108.3	106.9
42.5°	77.2	77.2	79.3	77.9	77.2
45°	55.2	55.9	57.2	56.6	55.9
47.5°	39.3	40.7	40.7	41.4	38.6
50°	23.5	29.0	29.7	29.0	23.5
52.5°	12.4	17.2	21.4	17.2	12.4
55°	7.6	10.3	14.5	10.3	8.3
57.5°	7.6	7.6	9.7	8.3	7.6
60°	7.6	7.6	7.6	7.6	7.6
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.9	7.6	7.6	7.6	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.2	6.9	6.9
72.5°	6.2	6.2	5.5	6.2	6.2
75°	4.8	4.8	4.8	4.8	4.8
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	2.8	3.4	3.4
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)