

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: P284074

Luminaire Tested: **LDA2B208050D010 EU2B20WFL558050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284074  
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: LDA2B208050D010 EU2B20WFL558050 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1910.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

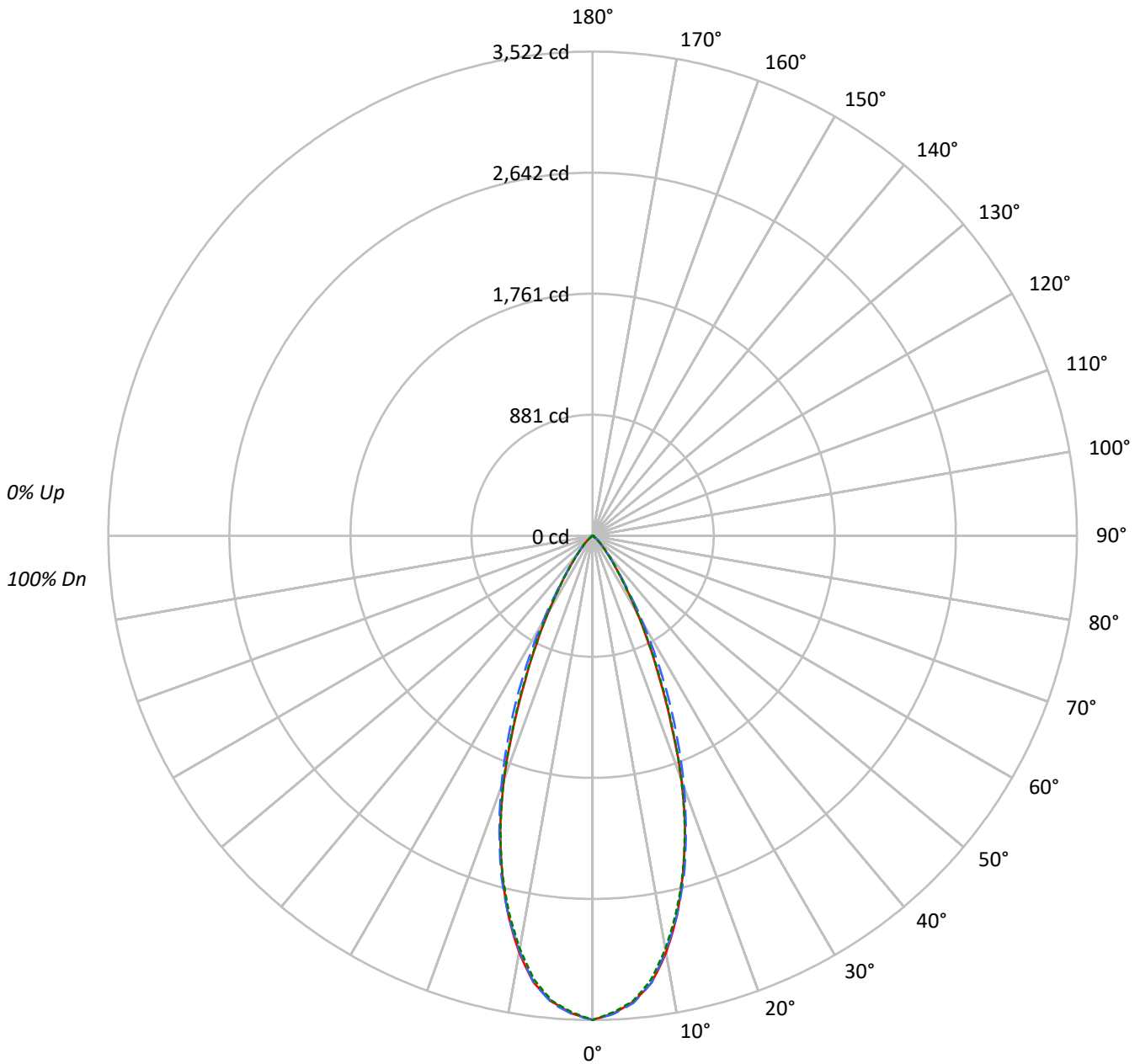
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1737374	1737374	1737374
5°	1685125	1689186	1681609
10°	1542495	1536333	1527065
15°	1297447	1309501	1295353
20°	992192	1018548	990564
25°	630047	710341	642350
30°	366421	413705	372859
35°	193694	206041	194297
40°	102273	106846	102273
45°	57143	59306	57911
50°	26710	33772	26710
55°	9720	18493	10580
60°	11150	11150	11150
65°	11907	13192	11907
70°	14713	13271	14713
75°	13725	13725	13725
80°	14490	11649	14490
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.3	16.5
10°-20°	699.9	36.6
20°-30°	565.2	29.6
30°-40°	223.4	11.7
40°-50°	68.6	3.6
50°-60°	17.7	0.9
60°-70°	10.7	0.6
70°-80°	7.8	0.4
80°-90°	2.3	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°	1579.5	82.7
0°-40°	1802.9	94.4
0°-60°	1889.1	98.9
0°-90°	1910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3522	3522	3522	3522	3522	
5°	3403	3409	3411	3404	3396	315
15°	2540	2547	2564	2554	2536	698
25°	1157	1213	1305	1235	1180	539
35°	322	331	342	332	323	215
45°	82	83	85	84	83	67
55°	11	15	22	15	12	14
65°	10	11	11	11	10	11
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°	3521.5	3521.5	3521.5	3521.5	3521.5
2.5°	3477.4	3479.5	3482.5	3478.4	3468.2
5°	3402.6	3408.8	3410.8	3403.7	3395.5
7.5°	3279.7	3272.6	3278.7	3266.4	3256.2
10°	3079.0	3069.7	3066.7	3048.2	3048.2
12.5°	2831.1	2828.0	2830.1	2820.9	2806.5
15°	2540.2	2547.4	2563.8	2553.5	2536.1
17.5°	2231.9	2242.1	2256.5	2253.4	2229.8
20°	1889.8	1919.5	1940.0	1920.5	1886.7
22.5°	1500.6	1564.1	1616.3	1575.3	1520.0
25°	1157.4	1212.7	1304.9	1235.3	1180.0
27.5°	877.8	917.7	1001.7	933.1	895.2
30°	643.2	667.8	726.2	681.1	654.5
32.5°	459.9	477.3	501.9	475.3	461.9
35°	321.6	330.8	342.1	331.9	322.6
37.5°	226.4	229.4	237.6	229.4	225.3
40°	158.8	159.8	165.9	160.8	158.8
42.5°	114.7	114.7	117.8	115.7	114.7
45°	81.9	83.0	85.0	84.0	83.0
47.5°	58.4	60.4	60.4	61.5	57.4
50°	34.8	43.0	44.0	43.0	34.8
52.5°	18.4	25.6	31.8	25.6	18.4
55°	11.3	15.4	21.5	15.4	12.3
57.5°	11.3	11.3	14.3	12.3	11.3
60°	11.3	11.3	11.3	11.3	11.3
62.5°	11.3	11.3	11.3	11.3	11.3
65°	10.2	11.3	11.3	11.3	10.2
67.5°	10.2	10.2	10.2	10.2	10.2
70°	10.2	10.2	9.2	10.2	10.2
72.5°	9.2	9.2	8.2	9.2	9.2
75°	7.2	7.2	7.2	7.2	7.2
77.5°	6.1	6.1	6.1	6.1	6.1
80°	5.1	5.1	4.1	5.1	5.1
82.5°	3.1	3.1	3.1	3.1	3.1
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)