

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: P284076

Luminaire Tested: **LDA2B208050D010 EU2B20WFL558050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284076  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1739.4 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

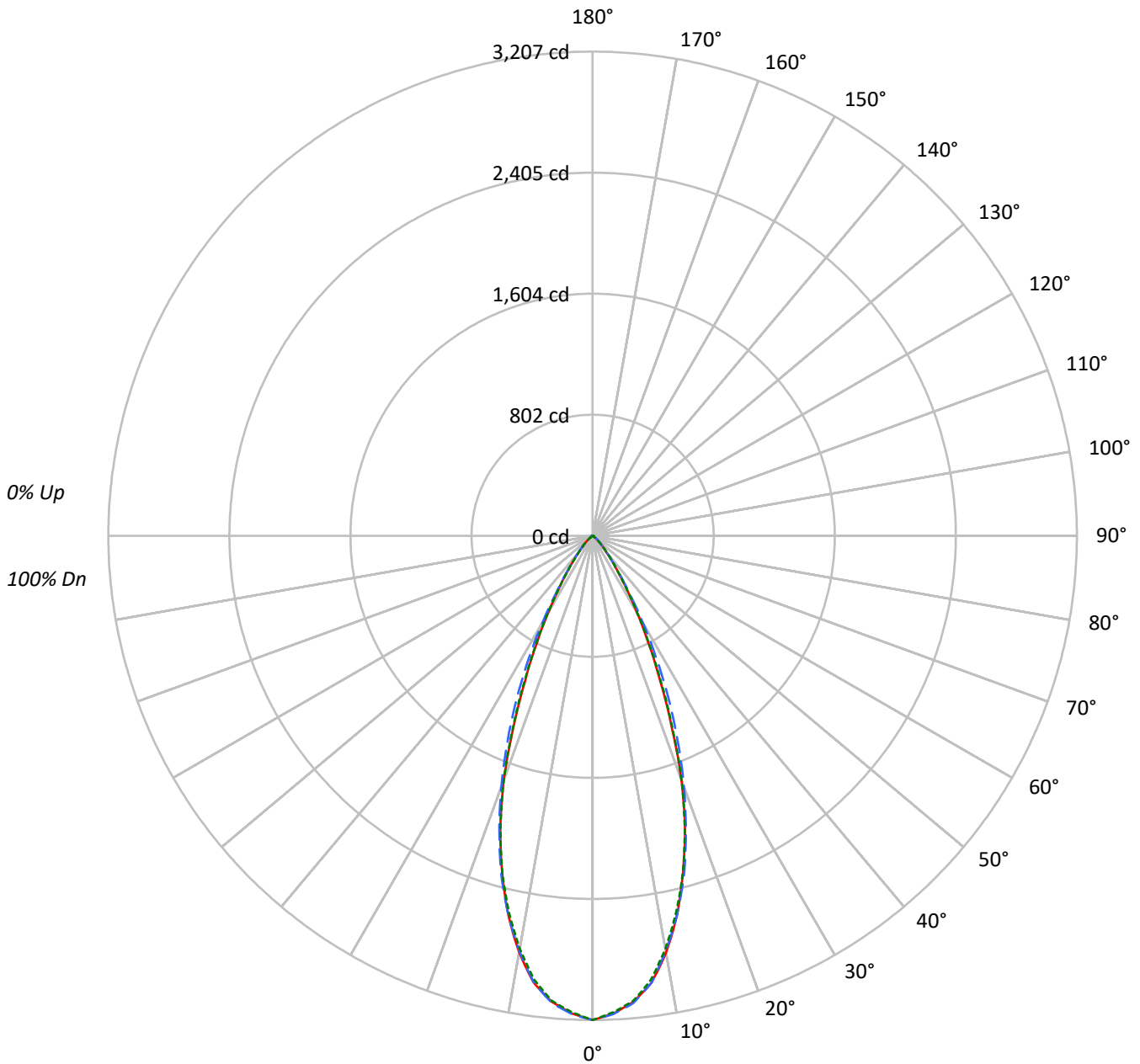
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1582162	1582162	1582162
5°	1534620	1538285	1531351
10°	1404677	1399066	1390650
15°	1181554	1192485	1179613
20°	903567	927561	902097
25°	573760	646923	584974
30°	333722	376733	339532
35°	176409	187611	176951
40°	93128	97314	93128
45°	52050	54003	52748
50°	24331	30778	24331
55°	8860	16859	9634
60°	10163	10163	10163
65°	10857	12024	10857
70°	13415	12117	13415
75°	12390	12390	12390
80°	13353	10512	13353
85°	10755	10755	10755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.3	16.5
10°-20°	637.4	36.6
20°-30°	514.7	29.6
30°-40°	203.4	11.7
40°-50°	62.5	3.6
50°-60°	16.1	0.9
60°-70°	9.8	0.6
70°-80°	7.1	0.4
80°-90°	2.1	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°	1438.4	82.7
0°-40°	1641.8	94.4
0°-60°	1720.4	98.9
0°-90°	1739.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3207	3207	3207	3207	3207	
5°	3099	3104	3106	3100	3092	287
15°	2313	2320	2335	2325	2310	635
25°	1054	1104	1188	1125	1075	491
35°	293	301	312	302	294	196
45°	75	76	77	76	76	61
55°	10	14	20	14	11	13
65°	9	10	10	10	9	10
75°	6	6	6	6	6	7
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°	3206.9	3206.9	3206.9	3206.9	3206.9
2.5°	3166.8	3168.6	3171.4	3167.7	3158.4
5°	3098.7	3104.3	3106.1	3099.6	3092.1
7.5°	2986.7	2980.2	2985.8	2974.6	2965.3
10°	2803.9	2795.5	2792.7	2775.9	2775.9
12.5°	2578.2	2575.4	2577.2	2568.9	2555.8
15°	2313.3	2319.8	2334.7	2325.4	2309.5
17.5°	2032.5	2041.8	2054.9	2052.1	2030.6
20°	1721.0	1748.0	1766.7	1748.9	1718.2
22.5°	1366.5	1424.3	1471.9	1434.6	1384.2
25°	1054.0	1104.4	1188.4	1124.9	1074.6
27.5°	799.4	835.8	912.3	849.8	815.2
30°	585.8	608.2	661.3	620.3	596.0
32.5°	418.8	434.7	457.1	432.8	420.7
35°	292.9	301.3	311.5	302.2	293.8
37.5°	206.1	208.9	216.4	208.9	205.2
40°	144.6	145.5	151.1	146.4	144.6
42.5°	104.5	104.5	107.3	105.4	104.5
45°	74.6	75.6	77.4	76.5	75.6
47.5°	53.2	55.0	55.0	56.0	52.2
50°	31.7	39.2	40.1	39.2	31.7
52.5°	16.8	23.3	28.9	23.3	16.8
55°	10.3	14.0	19.6	14.0	11.2
57.5°	10.3	10.3	13.1	11.2	10.3
60°	10.3	10.3	10.3	10.3	10.3
62.5°	10.3	10.3	10.3	10.3	10.3
65°	9.3	10.3	10.3	10.3	9.3
67.5°	9.3	9.3	9.3	9.3	9.3
70°	9.3	9.3	8.4	9.3	9.3
72.5°	8.4	8.4	7.5	8.4	8.4
75°	6.5	6.5	6.5	6.5	6.5
77.5°	5.6	5.6	5.6	5.6	5.6
80°	4.7	4.7	3.7	4.7	4.7
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)