

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: P282747

Luminaire Tested: **LDA2B208027D010 EU2B20NFL258027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B208027D010 EU2B20NFL258027 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1638.3 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

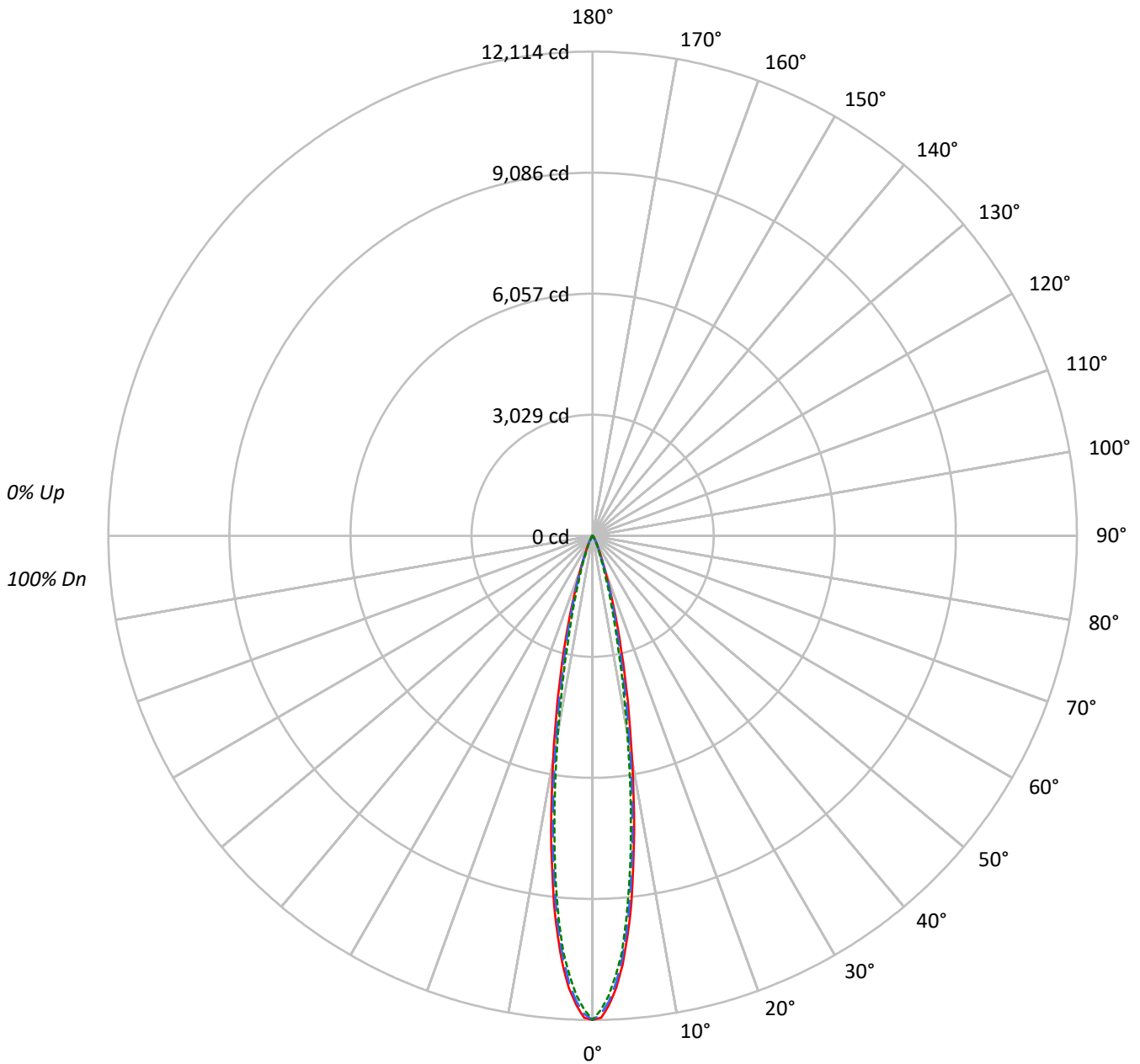
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5976535	5976535	5976535
5°	4973115	4881940	4783386
10°	2848581	2673040	2494694
15°	1266954	1125217	942925
20°	459607	432148	342369
25°	176483	164779	141916
30°	76110	70812	62779
35°	36017	36017	29813
40°	18033	18677	15070
45°	10396	9768	9140
50°	7138	6447	6447
55°	5591	4043	4817
60°	4638	2763	3651
65°	3269	2218	3269
70°	2741	1298	2741
75°	1716	1716	1716
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	787.9	48.1
10°-20°	637.6	38.9
20°-30°	153.8	9.4
30°-40°	39.2	2.4
40°-50°	11.7	0.7
50°-60°	5.0	0.3
60°-70°	2.4	0.1
70°-80°	0.8	0.0
80°-90°	0.0	0.0
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°	1579.2	96.4
0°-40°	1618.4	98.8
0°-60°	1635.1	99.8
0°-90°	1638.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12114	12114	12114	12114	12114	
5°	10042	9949	9858	9772	9659	812
15°	2480	2422	2203	1984	1846	707
25°	324	326	303	275	261	167
35°	60	61	60	54	50	41
45°	15	15	14	13	13	13
55°	6	6	5	5	6	6
65°	3	3	2	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12113.9	12113.9	12113.9	12113.9	12113.9
1°	12059.8	11975.7	11965.4	12017.7	11863.6
2°	11751.4	11691.6	11657.1	11687.9	11513.2
3°	11328.2	11270.3	11207.7	11208.6	11013.4
4°	10751.8	10706.0	10600.4	10568.6	10455.6
5°	10041.7	9949.2	9857.6	9771.7	9658.6
6°	9256.9	9137.3	9006.5	8878.5	8762.7
7°	8333.8	8254.4	8081.6	7906.9	7808.8
8°	7465.9	7337.9	7136.1	6917.4	6834.3
9°	6532.5	6441.0	6209.3	5955.1	5872.0
10°	5686.1	5590.8	5335.7	5052.6	4979.7
11°	4891.9	4802.2	4536.9	4239.8	4162.2
12°	4220.2	4093.1	3788.5	3530.7	3455.0
13°	3551.2	3464.3	3175.6	2920.6	2773.9
14°	2982.2	2910.3	2648.7	2424.5	2269.4
15°	2480.5	2421.7	2203.0	1984.4	1846.1
16°	2034.9	1998.4	1825.6	1614.4	1501.4
17°	1650.9	1617.2	1507.0	1312.7	1217.4
18°	1333.2	1328.6	1237.0	1068.8	983.8
19°	1096.9	1095.0	1010.9	869.8	799.7
20°	875.4	887.6	823.1	699.8	652.1
21°	713.8	720.3	668.9	575.5	532.5
22°	581.1	585.8	552.2	475.6	452.2
23°	476.5	479.3	451.3	394.3	373.7
24°	392.4	394.3	369.0	328.9	311.1
25°	324.2	326.1	302.7	274.7	260.7
26°	269.1	270.9	250.4	230.8	216.8
27°	223.3	227.0	206.5	194.3	179.4
28°	190.6	191.5	172.8	165.4	151.4
29°	156.0	161.6	145.7	139.2	128.9
30°	133.6	136.4	124.3	119.6	110.2
32.5°	88.8	90.6	85.0	81.3	73.8
35°	59.8	60.7	59.8	54.2	49.5
37.5°	41.1	41.1	42.0	35.5	33.6
40°	28.0	28.0	29.0	24.3	23.4
42.5°	20.6	20.6	19.6	16.8	16.8
45°	14.9	14.9	14.0	13.1	13.1
47.5°	12.1	11.2	10.3	10.3	10.3
50°	9.3	9.3	8.4	7.5	8.4
52.5°	7.5	7.5	6.5	6.5	6.5
55°	6.5	5.6	4.7	4.7	5.6
57.5°	4.7	4.7	3.7	3.7	4.7
60°	4.7	3.7	2.8	3.7	3.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.8	1.9	1.9	1.9	1.9
70°	1.9	1.9	0.9	0.9	1.9
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.0	0.0	0.9
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.7	2.8	2.8	2.8	2.8
65°	2.8	2.8	1.9	1.9	2.8



(END OF REPORT)