

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: P282393

Luminaire Tested: **LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282393  
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: LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1899.9 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

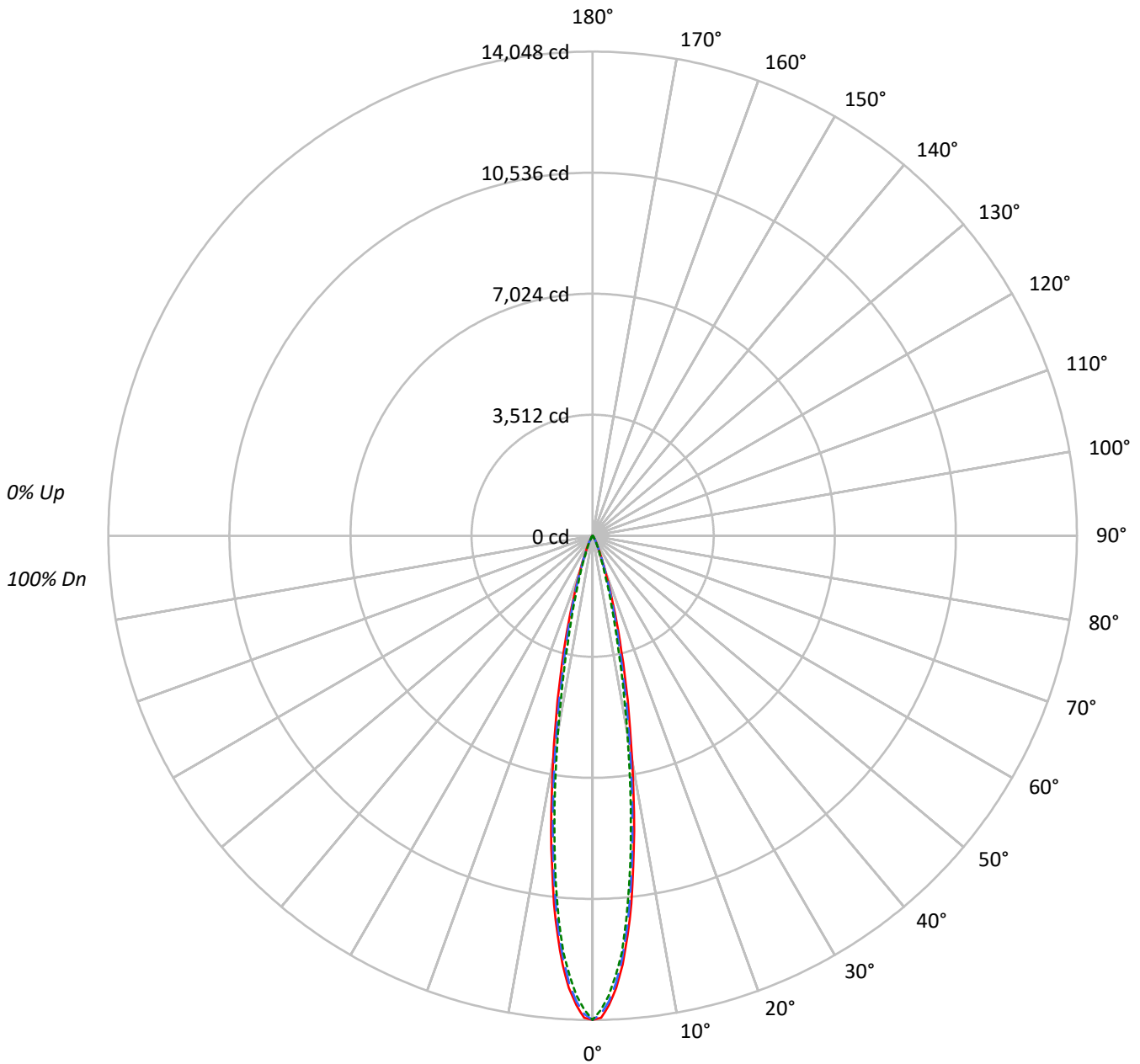
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	6930598	6930598	6930598
5°	5766995	5661260	5547007
10°	3303264	3099718	2892967
15°	1469218	1304853	1093447
20°	533005	501136	397024
25°	204627	191072	164561
30°	88244	82092	72806
35°	41738	41738	34571
40°	20931	21640	17453
45°	12071	11373	10605
50°	8289	7522	7522
55°	6537	4645	5591
60°	5328	3256	4243
65°	3852	2568	3852
70°	3173	1587	3173
75°	2097	2097	2097
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	913.7	48.1
10°-20°	739.4	38.9
20°-30°	178.3	9.4
30°-40°	45.5	2.4
40°-50°	13.6	0.7
50°-60°	5.8	0.3
60°-70°	2.8	0.1
70°-80°	0.9	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°	1831.3	96.4
0°-40°	1876.8	98.8
0°-60°	1896.1	99.8
0°-90°	1899.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14048	14048	14048	14048	14048	
5°	11645	11537	11431	11332	11200	942
15°	2876	2808	2555	2301	2141	820
25°	376	378	351	318	302	194
35°	69	70	69	63	57	48
45°	17	17	16	15	15	15
55°	8	6	5	5	6	7
65°	3	3	2	2	3	4
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°	14047.7	14047.7	14047.7	14047.7	14047.7
1°	13984.9	13887.3	13875.4	13936.1	13757.3
2°	13627.3	13558.0	13517.9	13553.7	13351.0
3°	13136.5	13069.4	12996.8	12997.9	12771.4
4°	12468.1	12415.0	12292.5	12255.7	12124.6
5°	11644.7	11537.4	11431.2	11331.5	11200.5
6°	10734.6	10595.9	10444.2	10295.8	10161.4
7°	9664.2	9572.1	9371.6	9169.0	9055.3
8°	8657.7	8509.2	8275.2	8021.7	7925.3
9°	7575.3	7469.1	7200.4	6905.8	6809.3
10°	6593.7	6483.2	6187.4	5859.2	5774.7
11°	5672.8	5568.8	5261.1	4916.6	4826.7
12°	4893.8	4746.5	4393.3	4094.3	4006.5
13°	4118.1	4017.3	3682.6	3386.8	3216.7
14°	3458.3	3374.9	3071.5	2811.5	2631.6
15°	2876.5	2808.2	2554.7	2301.2	2140.8
16°	2359.7	2317.4	2117.0	1872.2	1741.1
17°	1914.4	1875.4	1747.6	1522.2	1411.7
18°	1546.0	1540.6	1434.5	1239.4	1140.8
19°	1271.9	1269.8	1172.3	1008.7	927.4
20°	1015.2	1029.3	954.5	811.5	756.2
21°	827.7	835.3	775.7	667.4	617.6
22°	673.9	679.3	640.3	551.5	524.4
23°	552.5	555.8	523.3	457.2	433.4
24°	455.0	457.2	428.0	381.4	360.8
25°	375.9	378.1	351.0	318.5	302.3
26°	312.0	314.2	290.4	267.6	251.4
27°	258.9	263.3	239.4	225.4	208.0
28°	221.0	222.1	200.4	191.8	175.5
29°	180.9	187.4	169.0	161.4	149.5
30°	154.9	158.2	144.1	138.7	127.8
32.5°	102.9	105.1	98.6	94.3	85.6
35°	69.3	70.4	69.3	62.8	57.4
37.5°	47.7	47.7	48.8	41.2	39.0
40°	32.5	32.5	33.6	28.2	27.1
42.5°	23.8	23.8	22.8	19.5	19.5
45°	17.3	17.3	16.3	15.2	15.2
47.5°	14.1	13.0	11.9	11.9	11.9
50°	10.8	10.8	9.8	8.7	9.8
52.5°	8.7	8.7	7.6	7.6	7.6
55°	7.6	6.5	5.4	5.4	6.5
57.5°	5.4	5.4	4.3	4.3	5.4
60°	5.4	4.3	3.3	4.3	4.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.3	2.2	2.2	2.2	2.2
70°	2.2	2.2	1.1	1.1	2.2
72.5°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.0	0.0	1.1
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°	4.3	3.3	3.3	3.3	3.3
65°	3.3	3.3	2.2	2.2	3.3



(END OF REPORT)