

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: P282665

Luminaire Tested: **LDA2B108030D010 EU2B10NFL258030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282665  
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: LDA2B108030D010 EU2B10NFL258030 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 915.0 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

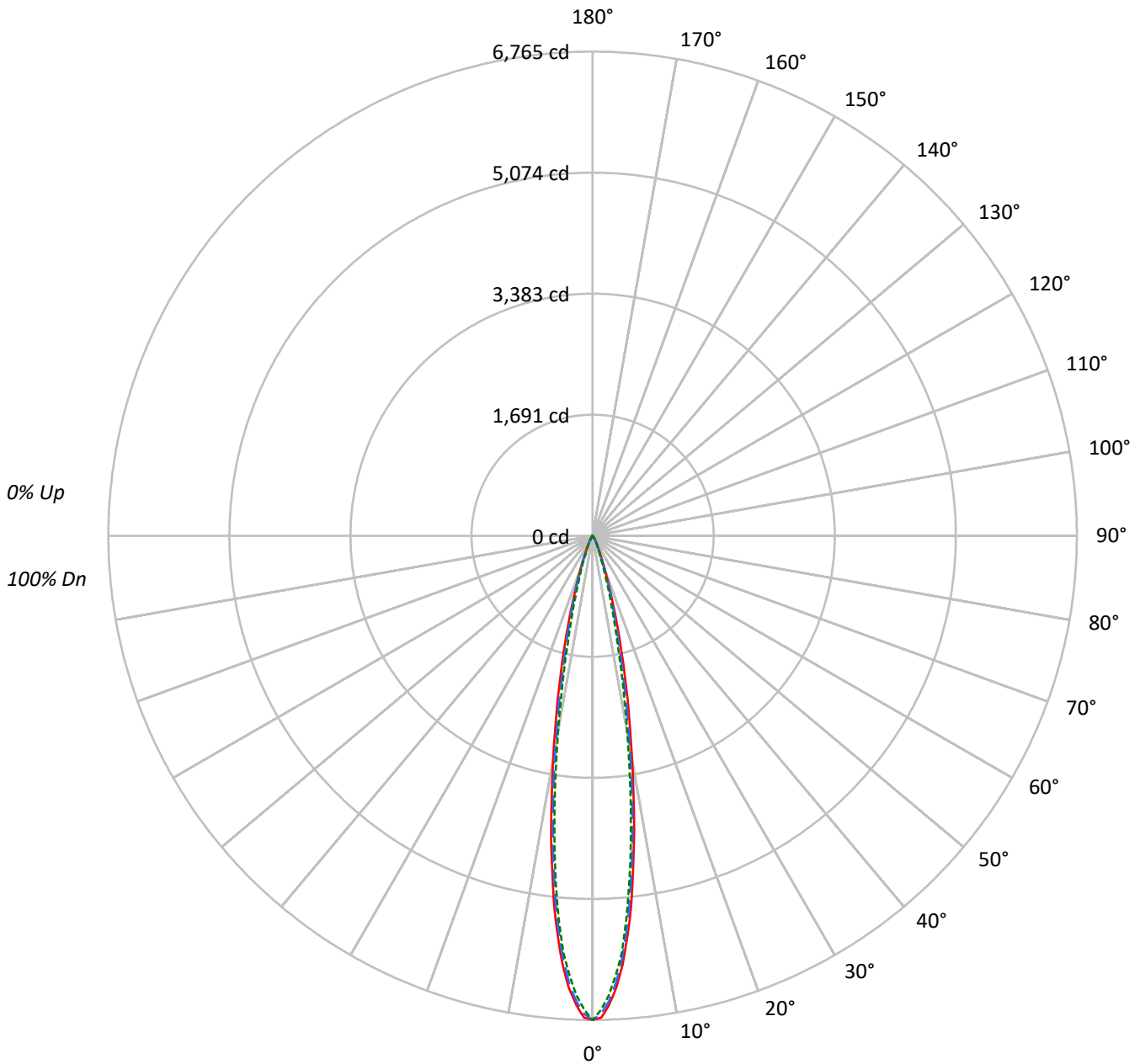
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3337790	3337790	3337790
5°	2777391	2726480	2671408
10°	1590839	1492849	1393255
15°	707564	628446	526599
20°	256685	241354	191214
25°	98584	92052	79259
30°	42499	39536	35093
35°	20116	20116	16683
40°	10111	10433	8372
45°	5791	5442	5093
50°	3991	3607	3607
55°	3183	2236	2666
60°	2565	1579	2072
65°	1868	1167	1868
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.0	48.1
10°-20°	356.1	38.9
20°-30°	85.9	9.4
30°-40°	21.9	2.4
40°-50°	6.5	0.7
50°-60°	2.8	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	882.0	96.4
0°-40°	903.9	98.8
0°-60°	913.2	99.8
0°-90°	915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6765	6765	6765	6765	6765	
5°	5608	5556	5505	5457	5394	453
15°	1385	1352	1230	1108	1031	395
25°	181	182	169	153	146	94
35°	33	34	33	30	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6765.4	6765.4	6765.4	6765.4	6765.4
1°	6735.1	6688.2	6682.4	6711.6	6625.5
2°	6562.9	6529.5	6510.2	6527.5	6429.9
3°	6326.6	6294.2	6259.3	6259.8	6150.7
4°	6004.6	5979.1	5920.1	5902.4	5839.2
5°	5608.1	5556.4	5505.3	5457.3	5394.1
6°	5169.8	5103.0	5029.9	4958.5	4893.8
7°	4654.3	4609.9	4513.4	4415.8	4361.0
8°	4169.5	4098.0	3985.3	3863.2	3816.8
9°	3648.3	3597.1	3467.7	3325.8	3279.4
10°	3175.5	3122.3	2979.9	2821.8	2781.1
11°	2732.0	2681.9	2533.8	2367.8	2324.5
12°	2356.9	2285.9	2115.8	1971.8	1929.5
13°	1983.3	1934.8	1773.5	1631.1	1549.2
14°	1665.5	1625.3	1479.2	1354.0	1267.4
15°	1385.3	1352.5	1230.4	1108.3	1031.0
16°	1136.4	1116.1	1019.6	901.6	838.5
17°	922.0	903.2	841.6	733.1	679.9
18°	744.6	742.0	690.8	596.9	549.4
19°	612.6	611.5	564.6	485.8	446.6
20°	488.9	495.7	459.7	390.8	364.2
21°	398.6	402.3	373.6	321.4	297.4
22°	324.5	327.2	308.4	265.6	252.5
23°	266.1	267.7	252.0	220.2	208.7
24°	219.1	220.2	206.1	183.7	173.8
25°	181.1	182.1	169.1	153.4	145.6
26°	150.3	151.3	139.8	128.9	121.1
27°	124.7	126.8	115.3	108.5	100.2
28°	106.4	107.0	96.5	92.4	84.5
29°	87.1	90.3	81.4	77.7	72.0
30°	74.6	76.2	69.4	66.8	61.6
32.5°	49.6	50.6	47.5	45.4	41.2
35°	33.4	33.9	33.4	30.3	27.7
37.5°	23.0	23.0	23.5	19.8	18.8
40°	15.7	15.7	16.2	13.6	13.0
42.5°	11.5	11.5	11.0	9.4	9.4
45°	8.3	8.3	7.8	7.3	7.3
47.5°	6.8	6.3	5.7	5.7	5.7
50°	5.2	5.2	4.7	4.2	4.7
52.5°	4.2	4.2	3.7	3.7	3.7
55°	3.7	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.0	1.0	1.6



(END OF REPORT)