

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: P282664

Luminaire Tested: **LDA2B108027D010 EU2B10NFL258027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282664  
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: LDA2B108027D010 EU2B10NFL258027 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 899.8 lumens  
Efficiency: N/A  
Efficacy: 90.0 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

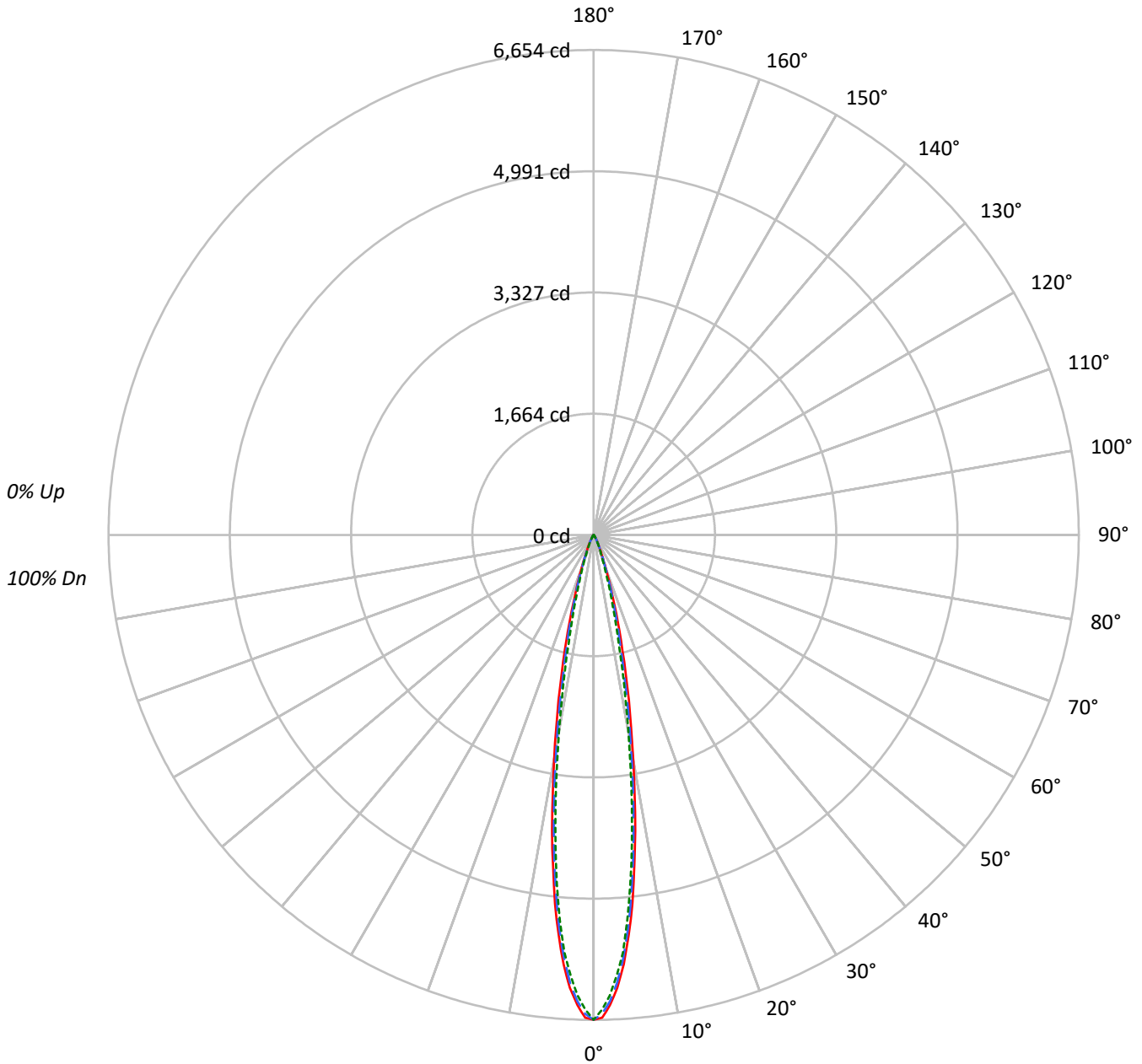
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3282632	3282632	3282632
5°	2731531	2681462	2627331
10°	1564588	1468201	1370210
15°	695867	618027	517916
20°	252432	237364	188064
25°	96951	90528	77953
30°	41815	38909	34523
35°	19755	19755	16382
40°	9918	10240	8244
45°	5721	5372	5024
50°	3914	3531	3531
55°	3097	2236	2666
60°	2565	1480	2072
65°	1751	1167	1751
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°	432.7	48.1
10°-20°	350.2	38.9
20°-30°	84.5	9.4
30°-40°	21.5	2.4
40°-50°	6.4	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°	867.4	96.4
0°-40°	888.9	98.8
0°-60°	898.1	99.8
0°-90°	899.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6654	6654	6654	6654	6654	
5°	5516	5465	5414	5367	5305	446
15°	1362	1330	1210	1090	1014	388
25°	178	179	166	151	143	92
35°	33	33	33	30	27	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°	6653.6	6653.6	6653.6	6653.6	6653.6
1°	6623.9	6577.7	6572.1	6600.8	6516.1
2°	6454.5	6421.7	6402.7	6419.6	6323.7
3°	6222.1	6190.3	6155.9	6156.4	6049.1
4°	5905.5	5880.3	5822.3	5804.9	5742.8
5°	5515.5	5464.7	5414.4	5367.2	5305.1
6°	5084.4	5018.7	4946.9	4876.6	4812.9
7°	4577.4	4533.8	4438.8	4342.9	4289.0
8°	4100.7	4030.4	3919.5	3799.4	3753.8
9°	3588.0	3537.7	3410.5	3270.9	3225.2
10°	3123.1	3070.8	2930.7	2775.2	2735.1
11°	2686.9	2637.6	2491.9	2328.7	2286.1
12°	2317.9	2248.2	2080.9	1939.2	1897.7
13°	1950.5	1902.8	1744.2	1604.1	1523.6
14°	1638.0	1598.5	1454.8	1331.7	1246.5
15°	1362.4	1330.1	1210.0	1090.0	1014.0
16°	1117.7	1097.7	1002.7	886.7	824.7
17°	906.8	888.3	827.7	721.0	668.6
18°	732.3	729.7	679.4	587.1	540.4
19°	602.5	601.4	555.2	477.8	439.3
20°	480.8	487.5	452.1	384.4	358.2
21°	392.1	395.6	367.4	316.1	292.5
22°	319.2	321.8	303.3	261.2	248.4
23°	261.7	263.3	247.9	216.6	205.3
24°	215.5	216.6	202.7	180.6	170.9
25°	178.1	179.1	166.3	150.9	143.2
26°	147.8	148.8	137.5	126.8	119.1
27°	122.6	124.7	113.4	106.7	98.5
28°	104.7	105.2	94.9	90.8	83.1
29°	85.7	88.8	80.1	76.5	70.8
30°	73.4	74.9	68.3	65.7	60.6
32.5°	48.8	49.8	46.7	44.6	40.5
35°	32.8	33.4	32.8	29.8	27.2
37.5°	22.6	22.6	23.1	19.5	18.5
40°	15.4	15.4	15.9	13.3	12.8
42.5°	11.3	11.3	10.8	9.2	9.2
45°	8.2	8.2	7.7	7.2	7.2
47.5°	6.7	6.2	5.6	5.6	5.6
50°	5.1	5.1	4.6	4.1	4.6
52.5°	4.1	4.1	3.6	3.6	3.6
55°	3.6	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	1.5	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	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	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)