

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: P282672

Luminaire Tested: **LDA2B108040D010 EU2B10NFL258040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282672  
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: LDA2B108040D010 EU2B10NFL258040 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 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: 949.4 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

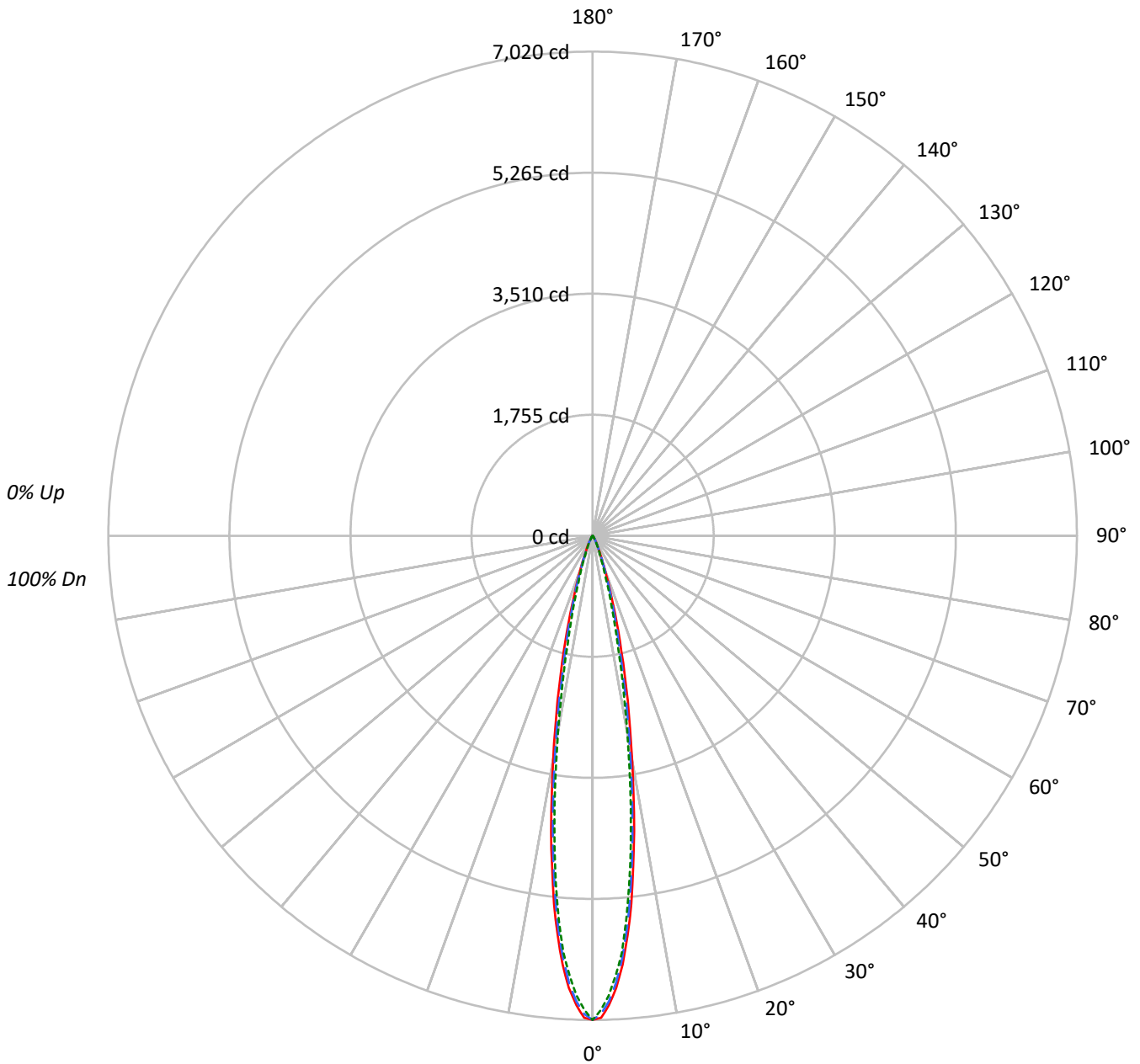
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3463449	3463449	3463449
5°	2881938	2829095	2771993
10°	1650755	1549058	1445707
15°	734226	652095	546417
20°	266345	250437	198407
25°	102286	95482	82253
30°	44094	41017	36403
35°	20899	20899	17286
40°	10433	10820	8695
45°	6070	5652	5303
50°	4145	3761	3761
55°	3269	2322	2752
60°	2664	1579	2171
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.6	48.1
10°-20°	369.5	38.9
20°-30°	89.1	9.4
30°-40°	22.7	2.4
40°-50°	6.8	0.7
50°-60°	2.9	0.3
60°-70°	1.4	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°	915.2	96.4
0°-40°	937.9	98.8
0°-60°	947.6	99.8
0°-90°	949.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	949.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7020	7020	7020	7020	7020	
5°	5819	5766	5712	5663	5597	471
15°	1438	1403	1277	1150	1070	410
25°	188	189	175	159	151	97
35°	35	35	35	31	29	24
45°	9	9	8	8	8	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°	7020.1	7020.1	7020.1	7020.1	7020.1
1°	6988.7	6939.9	6934.0	6964.3	6875.0
2°	6810.0	6775.3	6755.3	6773.2	6671.9
3°	6564.7	6531.2	6494.9	6495.4	6382.3
4°	6230.7	6204.1	6143.0	6124.6	6059.0
5°	5819.2	5765.6	5712.5	5662.7	5597.2
6°	5364.4	5295.1	5219.3	5145.1	5078.0
7°	4829.5	4783.5	4683.3	4582.1	4525.2
8°	4326.5	4252.3	4135.4	4008.7	3960.5
9°	3785.6	3732.6	3598.3	3451.0	3402.8
10°	3295.1	3239.9	3092.1	2928.0	2885.8
11°	2834.9	2782.9	2629.1	2457.0	2412.0
12°	2445.6	2372.0	2195.5	2046.0	2002.2
13°	2057.9	2007.6	1840.3	1692.5	1607.5
14°	1728.2	1686.5	1534.9	1405.0	1315.1
15°	1437.5	1403.4	1276.7	1150.0	1069.8
16°	1179.2	1158.1	1057.9	935.6	870.1
17°	956.7	937.2	873.3	760.7	705.5
18°	772.6	769.9	716.8	619.4	570.1
19°	635.6	634.5	585.8	504.1	463.5
20°	507.3	514.4	477.0	405.5	377.9
21°	413.6	417.4	387.7	333.5	308.6
22°	336.8	339.5	320.0	275.6	262.0
23°	276.1	277.7	261.5	228.5	216.6
24°	227.4	228.5	213.9	190.6	180.3
25°	187.9	189.0	175.4	159.2	151.1
26°	155.9	157.0	145.1	133.7	125.6
27°	129.4	131.6	119.7	112.6	104.0
28°	110.4	111.0	100.2	95.8	87.7
29°	90.4	93.7	84.5	80.7	74.7
30°	77.4	79.0	72.0	69.3	63.9
32.5°	51.4	52.5	49.3	47.1	42.8
35°	34.7	35.2	34.7	31.4	28.7
37.5°	23.8	23.8	24.4	20.6	19.5
40°	16.2	16.2	16.8	14.1	13.5
42.5°	11.9	11.9	11.4	9.7	9.7
45°	8.7	8.7	8.1	7.6	7.6
47.5°	7.0	6.5	6.0	6.0	6.0
50°	5.4	5.4	4.9	4.3	4.9
52.5°	4.3	4.3	3.8	3.8	3.8
55°	3.8	3.2	2.7	2.7	3.2
57.5°	2.7	2.7	2.2	2.2	2.7
60°	2.7	2.2	1.6	2.2	2.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
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°	2.2	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)