

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: P282666

Luminaire Tested: **LDA2B108030D010 EU2B10NFL258030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282666
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 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: 902.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

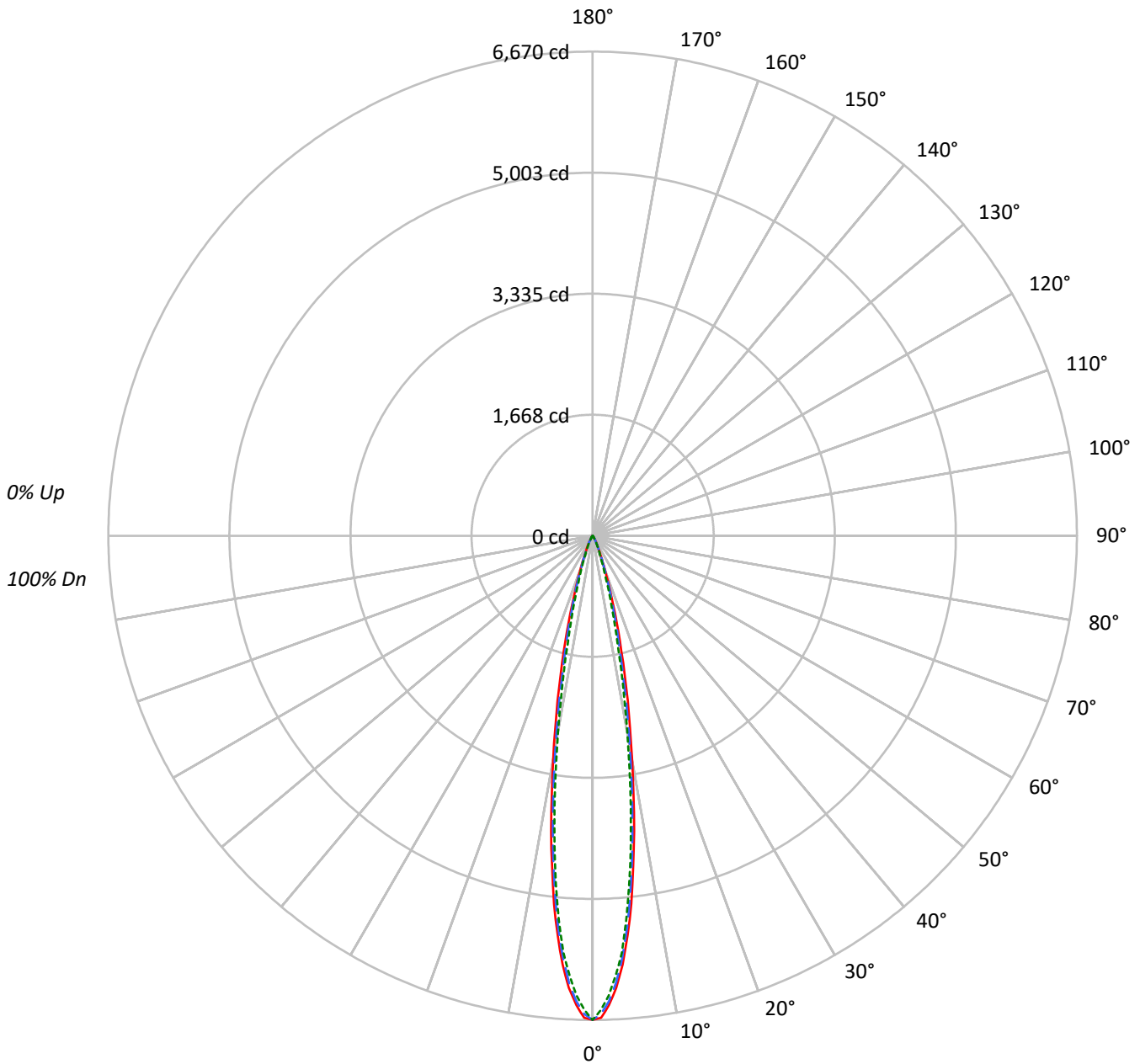
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3290822	3290822	3290822
5°	2738316	2688098	2633869
10°	1568495	1471858	1373667
15°	697604	619559	519193
20°	253062	237941	188536
25°	97169	90746	78116
30°	41929	38966	34580
35°	19815	19815	16442
40°	9918	10240	8308
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°	433.8	48.1
10°-20°	351.1	38.9
20°-30°	84.7	9.4
30°-40°	21.6	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°	869.6	96.4
0°-40°	891.1	98.8
0°-60°	900.3	99.8
0°-90°	902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6670	6670	6670	6670	6670	
5°	5529	5478	5428	5380	5318	447
15°	1366	1333	1213	1093	1016	389
25°	178	180	167	151	144	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°	6670.2	6670.2	6670.2	6670.2	6670.2
1°	6640.4	6594.1	6588.4	6617.2	6532.3
2°	6470.6	6437.7	6418.7	6435.6	6339.4
3°	6237.6	6205.7	6171.2	6171.7	6064.2
4°	5920.2	5895.0	5836.8	5819.3	5757.1
5°	5529.2	5478.3	5427.8	5380.5	5318.3
6°	5097.1	5031.2	4959.2	4888.7	4824.9
7°	4588.8	4545.1	4449.9	4353.7	4299.7
8°	4110.9	4040.4	3929.3	3808.9	3763.1
9°	3597.0	3546.5	3419.0	3279.0	3233.2
10°	3130.9	3078.4	2938.0	2782.1	2742.0
11°	2693.6	2644.2	2498.1	2334.5	2291.8
12°	2323.7	2253.8	2086.0	1944.1	1902.4
13°	1955.4	1907.5	1748.6	1608.1	1527.4
14°	1642.1	1602.5	1458.4	1335.0	1249.6
15°	1365.8	1333.4	1213.0	1092.7	1016.5
16°	1120.4	1100.4	1005.2	889.0	826.7
17°	909.0	890.5	829.8	722.8	670.3
18°	734.1	731.5	681.1	588.5	541.7
19°	604.0	602.9	556.6	478.9	440.4
20°	482.0	488.7	453.2	385.3	359.1
21°	393.0	396.6	368.3	316.9	293.2
22°	320.0	322.6	304.0	261.8	249.0
23°	262.4	263.9	248.5	217.1	205.8
24°	216.1	217.1	203.2	181.1	171.3
25°	178.5	179.5	166.7	151.2	143.5
26°	148.2	149.2	137.9	127.1	119.3
27°	123.0	125.0	113.7	107.0	98.8
28°	104.9	105.5	95.2	91.1	83.3
29°	85.9	89.0	80.3	76.7	71.0
30°	73.6	75.1	68.4	65.8	60.7
32.5°	48.9	49.9	46.8	44.8	40.6
35°	32.9	33.4	32.9	29.8	27.3
37.5°	22.6	22.6	23.1	19.5	18.5
40°	15.4	15.4	15.9	13.4	12.9
42.5°	11.3	11.3	10.8	9.3	9.3
45°	8.2	8.2	7.7	7.2	7.2
47.5°	6.7	6.2	5.7	5.7	5.7
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)