

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: P283653

Luminaire Tested: **LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1282.2 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

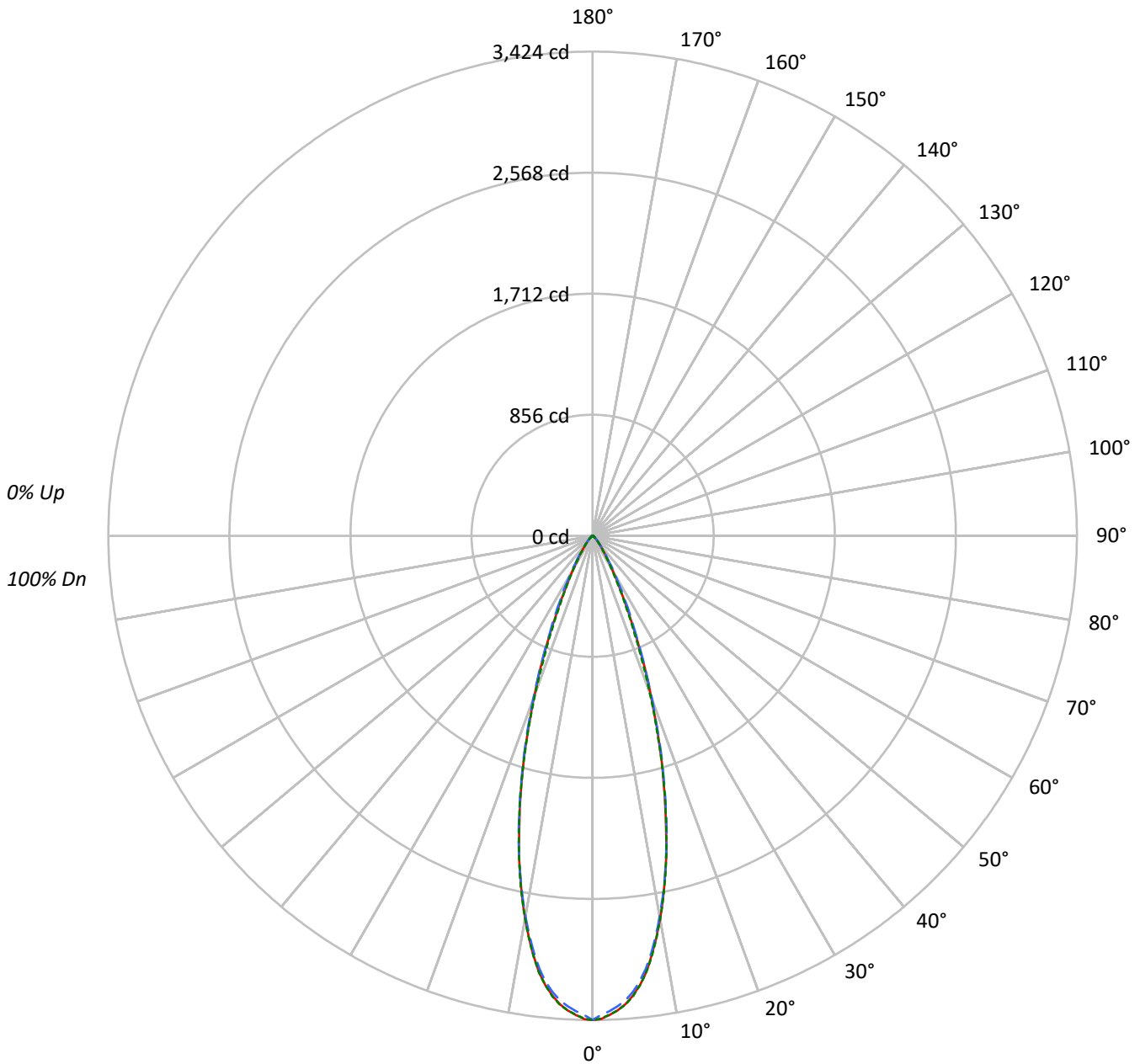
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1689369	1689369	1689369
5°	1616732	1604648	1619257
10°	1377424	1368758	1378827
15°	1015198	1021838	1018518
20°	633757	645465	619792
25°	327381	351278	310941
30°	156948	179907	149599
35°	81007	89680	75827
40°	45405	47723	43086
45°	27630	27630	26583
50°	14353	17653	14353
55°	7397	11784	8085
60°	8486	8486	8486
65°	9222	9222	9222
70°	11396	10386	11396
75°	11056	11056	11056
80°	10228	10228	10228
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	23.0
10°-20°	541.0	42.2
20°-30°	293.3	22.9
30°-40°	94.2	7.3
40°-50°	32.1	2.5
50°-60°	11.2	0.9
60°-70°	8.2	0.6
70°-80°	6.0	0.5
80°-90°	1.7	0.1
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°	1128.9	88.0
0°-40°	1223.0	95.4
0°-60°	1266.3	98.8
0°-90°	1282.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1282.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3424	3424	3424	3424	3424	
5°	3264	3244	3240	3272	3270	295
15°	1988	2004	2001	2010	1994	539
25°	601	629	645	601	571	288
35°	134	140	149	135	126	91
45°	40	40	40	40	38	32
55°	9	11	14	11	9	9
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3424.2	3424.2	3424.2	3424.2	3424.2
1°	3418.5	3394.0	3390.4	3422.1	3414.9
2°	3391.2	3368.1	3364.5	3396.2	3389.7
3°	3360.9	3340.1	3332.9	3366.0	3361.7
4°	3320.7	3301.2	3294.8	3327.8	3324.3
5°	3264.5	3244.4	3240.1	3272.5	3269.6
6°	3195.5	3178.9	3171.0	3203.4	3197.6
7°	3109.2	3094.1	3085.4	3109.2	3112.0
8°	2996.9	2989.7	2979.7	3003.4	3003.4
9°	2877.5	2871.0	2860.3	2881.8	2881.8
10°	2749.5	2745.2	2732.2	2752.3	2752.3
11°	2609.2	2607.0	2597.7	2614.2	2614.2
12°	2461.7	2466.8	2458.1	2472.5	2467.5
13°	2314.2	2312.1	2312.8	2323.6	2315.7
14°	2147.3	2160.3	2162.5	2168.9	2156.7
15°	1987.6	2004.2	2000.6	2009.9	1994.1
16°	1824.3	1843.1	1842.3	1844.5	1829.4
17°	1671.8	1682.6	1683.3	1681.2	1662.5
18°	1509.3	1524.4	1524.4	1520.8	1498.5
19°	1350.3	1361.8	1369.7	1361.8	1335.9
20°	1207.1	1215.0	1229.4	1209.3	1180.5
21°	1069.7	1076.9	1089.1	1065.4	1033.7
22°	938.1	947.4	958.9	931.6	898.5
23°	815.1	836.6	841.0	803.5	775.5
24°	702.1	726.6	733.8	695.6	666.1
25°	601.4	628.7	645.3	600.7	571.2
26°	514.4	541.0	561.1	516.5	488.5
27°	438.1	466.2	487.0	445.3	418.7
28°	372.6	400.0	421.6	382.7	357.5
29°	323.7	339.5	361.1	328.8	305.7
30°	275.5	292.8	315.8	282.7	262.6
32.5°	189.2	198.5	216.5	196.4	180.6
35°	134.5	140.3	148.9	135.2	125.9
37.5°	95.7	98.6	103.6	95.7	90.6
40°	70.5	71.9	74.1	69.8	66.9
42.5°	52.5	53.2	53.2	51.8	50.4
45°	39.6	40.3	39.6	39.6	38.1
47.5°	28.8	30.9	30.2	30.2	28.1
50°	18.7	23.0	23.0	22.3	18.7
52.5°	11.5	15.8	18.0	15.8	12.2
55°	8.6	10.8	13.7	10.8	9.4
57.5°	8.6	8.6	10.1	8.6	8.6
60°	8.6	8.6	8.6	8.6	8.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.9	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.2	7.9	7.9
72.5°	7.2	7.2	6.5	7.2	6.5
75°	5.8	5.8	5.8	5.8	5.8
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	3.6	3.6	3.6
82.5°	2.2	2.2	2.2	2.9	2.2
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	8.6	8.6	8.6	8.6	8.6
65°	7.9	8.6	7.9	8.6	7.9



(END OF REPORT)