

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: P283652

Luminaire Tested: **LDA2B158050D010 EU2B15FL408050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283652
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1324.6 lumens
Efficiency: N/A
Efficacy: 93.9 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

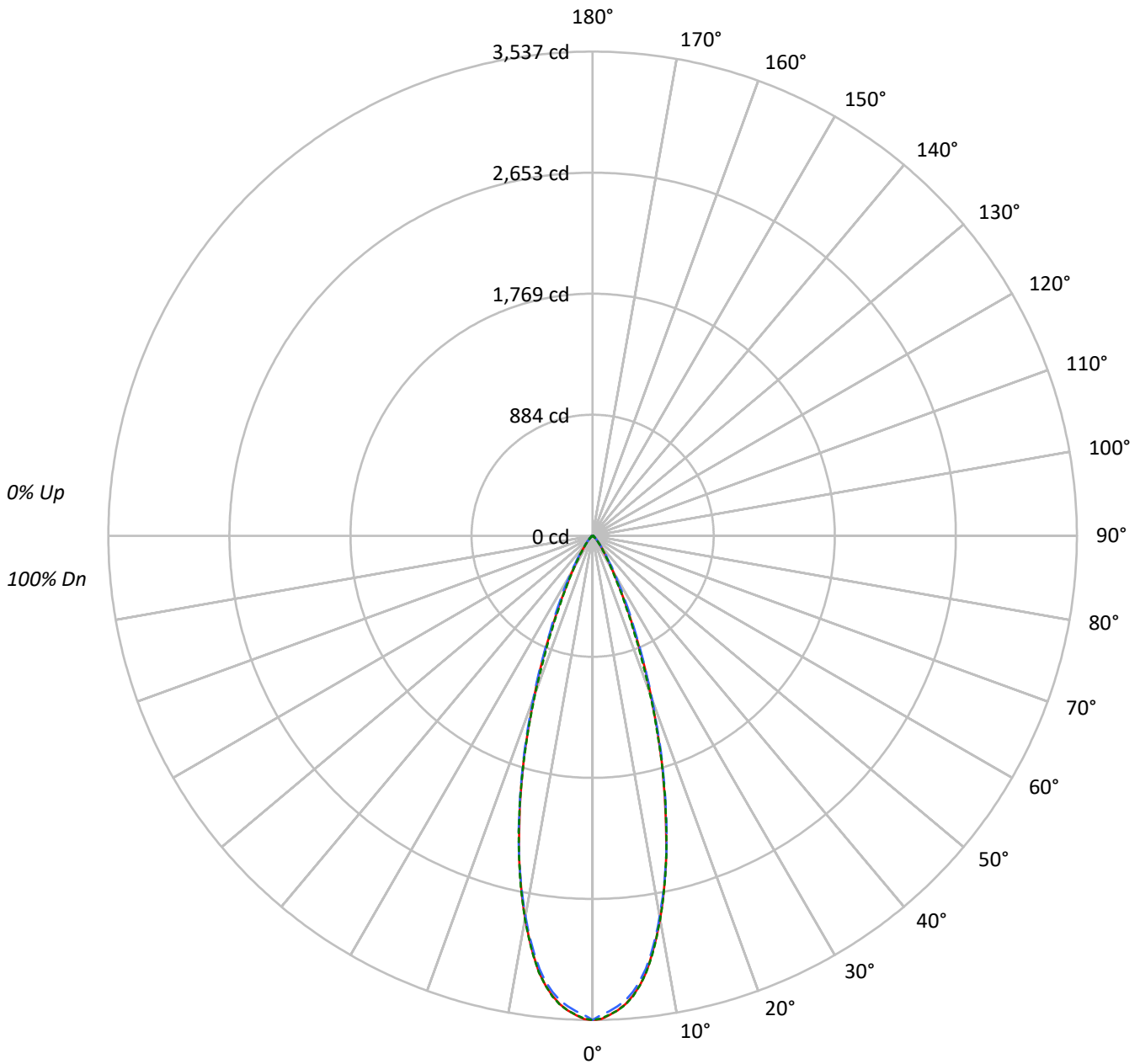
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
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°	1745218	1745218	1745218
5°	1670169	1657639	1672744
10°	1422913	1413995	1424416
15°	1048755	1055599	1052177
20°	654706	666781	640268
25°	338214	362873	321229
30°	162132	185831	154499
35°	83717	92631	78357
40°	46886	49269	44503
45°	28537	28537	27490
50°	14813	18267	14813
55°	7655	12128	8343
60°	8782	8782	8782
65°	9573	9573	9573
70°	11828	10674	11828
75°	11247	11247	11247
80°	10512	10512	10512
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	23.0
10°-20°	558.9	42.2
20°-30°	303.0	22.9
30°-40°	97.3	7.3
40°-50°	33.2	2.5
50°-60°	11.6	0.9
60°-70°	8.5	0.6
70°-80°	6.2	0.5
80°-90°	1.8	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°	1166.2	88.0
0°-40°	1263.4	95.4
0°-60°	1308.2	98.8
0°-90°	1324.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3537	3537	3537	3537	3537	
5°	3372	3352	3347	3381	3378	305
15°	2053	2070	2067	2076	2060	557
25°	621	650	667	620	590	298
35°	139	145	154	140	130	94
45°	41	42	41	41	39	33
55°	9	11	14	11	10	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3537.4	3537.4	3537.4	3537.4	3537.4
1°	3531.4	3506.2	3502.5	3535.2	3527.7
2°	3503.2	3479.4	3475.7	3508.4	3501.7
3°	3472.0	3450.4	3443.0	3477.2	3472.7
4°	3430.4	3410.3	3403.6	3437.8	3434.1
5°	3372.4	3351.6	3347.1	3380.6	3377.6
6°	3301.1	3284.0	3275.8	3309.2	3303.3
7°	3211.9	3196.3	3187.4	3211.9	3214.9
8°	3096.0	3088.5	3078.1	3102.7	3102.7
9°	2972.6	2965.9	2954.8	2977.1	2977.1
10°	2840.3	2835.9	2822.5	2843.3	2843.3
11°	2695.4	2693.2	2683.5	2700.6	2700.6
12°	2543.1	2548.3	2539.3	2554.2	2549.0
13°	2390.7	2388.5	2389.2	2400.4	2392.2
14°	2218.3	2231.7	2233.9	2240.6	2228.0
15°	2053.3	2070.4	2066.7	2076.4	2060.0
16°	1884.6	1904.0	1903.2	1905.4	1889.8
17°	1727.1	1738.2	1739.0	1736.7	1717.4
18°	1559.1	1574.7	1574.7	1571.0	1548.0
19°	1394.9	1406.8	1415.0	1406.8	1380.0
20°	1247.0	1255.2	1270.0	1249.2	1219.5
21°	1105.1	1112.5	1125.1	1100.6	1067.9
22°	969.1	978.7	990.6	962.4	928.2
23°	842.0	864.3	868.7	830.1	801.1
24°	725.3	750.6	758.0	718.6	688.2
25°	621.3	649.5	666.6	620.5	590.1
26°	531.4	558.8	579.7	533.6	504.6
27°	452.6	481.6	503.1	460.0	432.5
28°	385.0	413.2	435.5	395.4	369.3
29°	334.4	350.8	373.1	339.6	315.8
30°	284.6	302.5	326.2	292.1	271.2
32.5°	195.4	205.1	223.7	202.9	186.5
35°	139.0	144.9	153.8	139.7	130.1
37.5°	98.8	101.8	107.0	98.8	93.6
40°	72.8	74.3	76.5	72.1	69.1
42.5°	54.2	55.0	55.0	53.5	52.0
45°	40.9	41.6	40.9	40.9	39.4
47.5°	29.7	32.0	31.2	31.2	29.0
50°	19.3	23.8	23.8	23.0	19.3
52.5°	11.9	16.3	18.6	16.3	12.6
55°	8.9	11.1	14.1	11.1	9.7
57.5°	8.9	8.9	10.4	8.9	8.9
60°	8.9	8.9	8.9	8.9	8.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.2	8.2	8.2	8.2	8.2
70°	8.2	8.2	7.4	8.2	8.2
72.5°	7.4	7.4	6.7	7.4	6.7
75°	5.9	5.9	5.9	5.9	5.9
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.7	3.7	3.7	3.7	3.7
82.5°	2.2	2.2	2.2	3.0	2.2
85°	1.5	1.5	1.5	1.5	1.5
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°	8.9	8.9	8.9	8.9	8.9
65°	8.2	8.9	8.2	8.9	8.2



(END OF REPORT)