

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: P283631

Luminaire Tested: **LDA2B158027D010 EU2B15FL408027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283631
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: LDA2B158027D010 EU2B15FL408027 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1173.1 lumens
Efficiency: N/A
Efficacy: 83.2 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

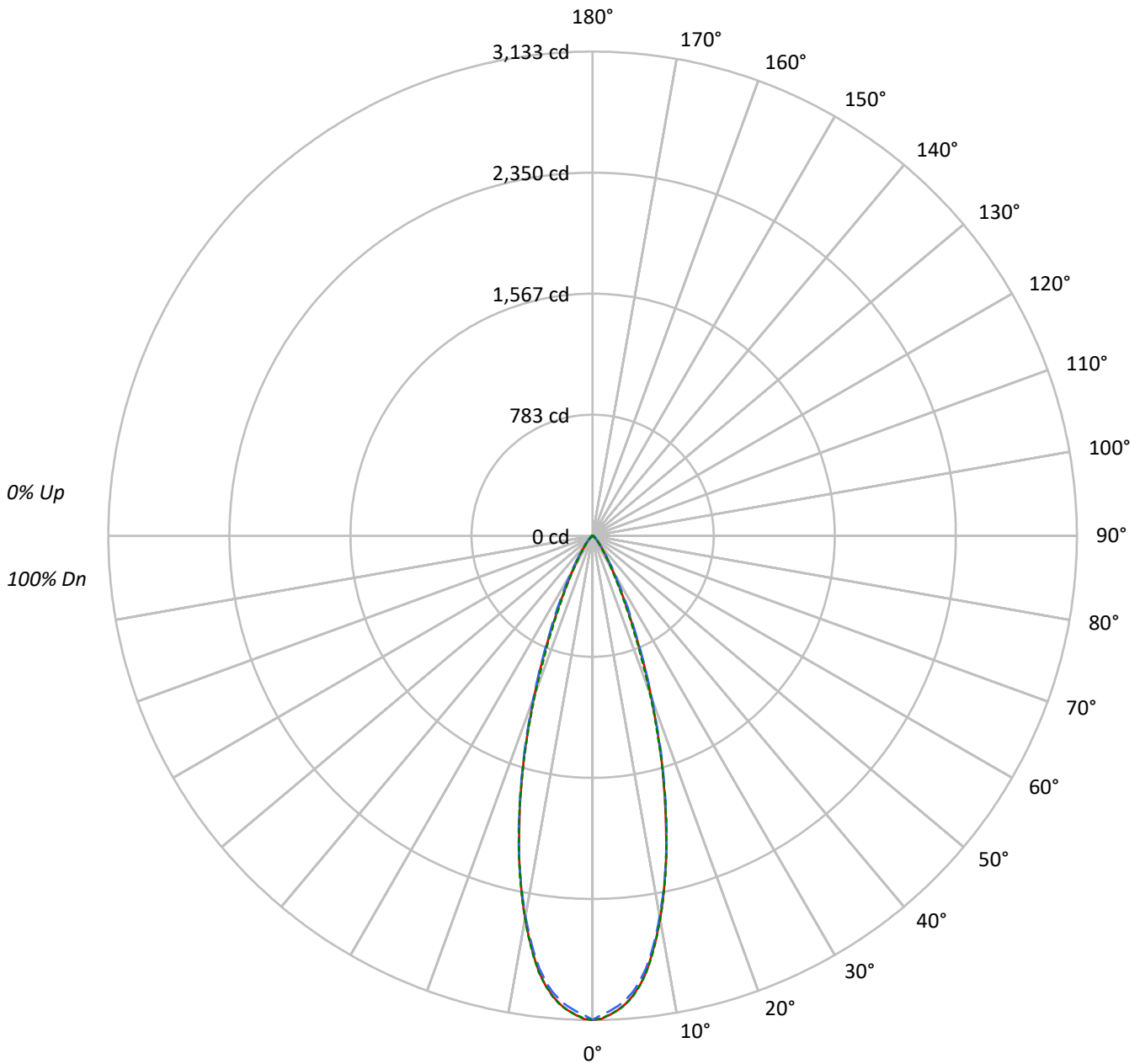
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1545653	1545653	1545653
5°	1479202	1468108	1481480
10°	1260197	1252281	1261549
15°	928827	934906	931892
20°	579837	590548	567079
25°	299509	321393	284485
30°	143618	164582	136838
35°	74141	82031	69383
40°	41540	43666	39415
45°	25257	25257	24350
50°	13125	16195	13125
55°	6795	10752	7397
60°	7795	7795	7795
65°	8405	8405	8405
70°	10386	9520	10386
75°	10103	10103	10103
80°	9376	9376	9376
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	23.0
10°-20°	495.0	42.2
20°-30°	268.4	22.9
30°-40°	86.1	7.3
40°-50°	29.4	2.5
50°-60°	10.3	0.9
60°-70°	7.5	0.6
70°-80°	5.5	0.5
80°-90°	1.6	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°	1032.8	88.0
0°-40°	1119.0	95.4
0°-60°	1158.6	98.8
0°-90°	1173.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3133	3133	3133	3133	3133	
5°	2987	2968	2964	2994	2991	270
15°	1818	1834	1830	1839	1824	493
25°	550	575	590	550	523	264
35°	123	128	136	124	115	83
45°	36	37	36	36	35	29
55°	8	10	12	10	9	9
65°	7	8	7	8	7	7
75°	5	5	5	5	5	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°	3132.9	3132.9	3132.9	3132.9	3132.9
1°	3127.6	3105.3	3102.0	3130.9	3124.3
2°	3102.6	3081.6	3078.3	3107.2	3101.3
3°	3075.0	3055.9	3049.3	3079.6	3075.6
4°	3038.1	3020.4	3014.4	3044.7	3041.4
5°	2986.8	2968.4	2964.4	2994.0	2991.4
6°	2923.6	2908.5	2901.2	2930.8	2925.6
7°	2844.6	2830.8	2822.9	2844.6	2847.3
8°	2741.9	2735.4	2726.2	2747.9	2747.9
9°	2632.7	2626.8	2616.9	2636.6	2636.6
10°	2515.5	2511.6	2499.7	2518.2	2518.2
11°	2387.2	2385.2	2376.7	2391.8	2391.8
12°	2252.3	2256.9	2249.0	2262.1	2257.5
13°	2117.3	2115.4	2116.0	2125.9	2118.7
14°	1964.6	1976.5	1978.5	1984.4	1973.2
15°	1818.5	1833.7	1830.4	1838.9	1824.5
16°	1669.1	1686.2	1685.6	1687.6	1673.7
17°	1529.6	1539.5	1540.1	1538.2	1521.0
18°	1380.8	1394.7	1394.7	1391.4	1371.0
19°	1235.4	1245.9	1253.2	1245.9	1222.2
20°	1104.4	1111.7	1124.8	1106.4	1080.1
21°	978.7	985.3	996.5	974.8	945.8
22°	858.3	866.8	877.3	852.3	822.1
23°	745.7	765.5	769.4	735.2	709.5
24°	642.4	664.8	671.3	636.5	609.5
25°	550.2	575.2	590.4	549.6	522.6
26°	470.6	494.9	513.4	472.6	446.9
27°	400.8	426.5	445.6	407.4	383.1
28°	340.9	365.9	385.7	350.1	327.1
29°	296.2	310.7	330.4	300.8	279.7
30°	252.1	267.9	288.9	258.7	240.2
32.5°	173.1	181.7	198.1	179.7	165.2
35°	123.1	128.3	136.2	123.7	115.2
37.5°	87.5	90.2	94.8	87.5	82.9
40°	64.5	65.8	67.8	63.8	61.2
42.5°	48.0	48.7	48.7	47.4	46.1
45°	36.2	36.9	36.2	36.2	34.9
47.5°	26.3	28.3	27.6	27.6	25.7
50°	17.1	21.1	21.1	20.4	17.1
52.5°	10.5	14.5	16.5	14.5	11.2
55°	7.9	9.9	12.5	9.9	8.6
57.5°	7.9	7.9	9.2	7.9	7.9
60°	7.9	7.9	7.9	7.9	7.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.2	7.2	7.2	7.2	7.2
70°	7.2	7.2	6.6	7.2	7.2
72.5°	6.6	6.6	5.9	6.6	5.9
75°	5.3	5.3	5.3	5.3	5.3
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.3	3.3	3.3	3.3	3.3
82.5°	2.0	2.0	2.0	2.6	2.0
85°	1.3	1.3	1.3	1.3	1.3
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°	7.9	7.9	7.9	7.9	7.9
65°	7.2	7.9	7.2	7.9	7.2



(END OF REPORT)