

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: P283687

Luminaire Tested: **LDA2B159040D010 EU2B15FL409040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283687
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: LDA2B159040D010 EU2B15FL409040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1000.1 lumens
Efficiency: N/A
Efficacy: 70.9 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

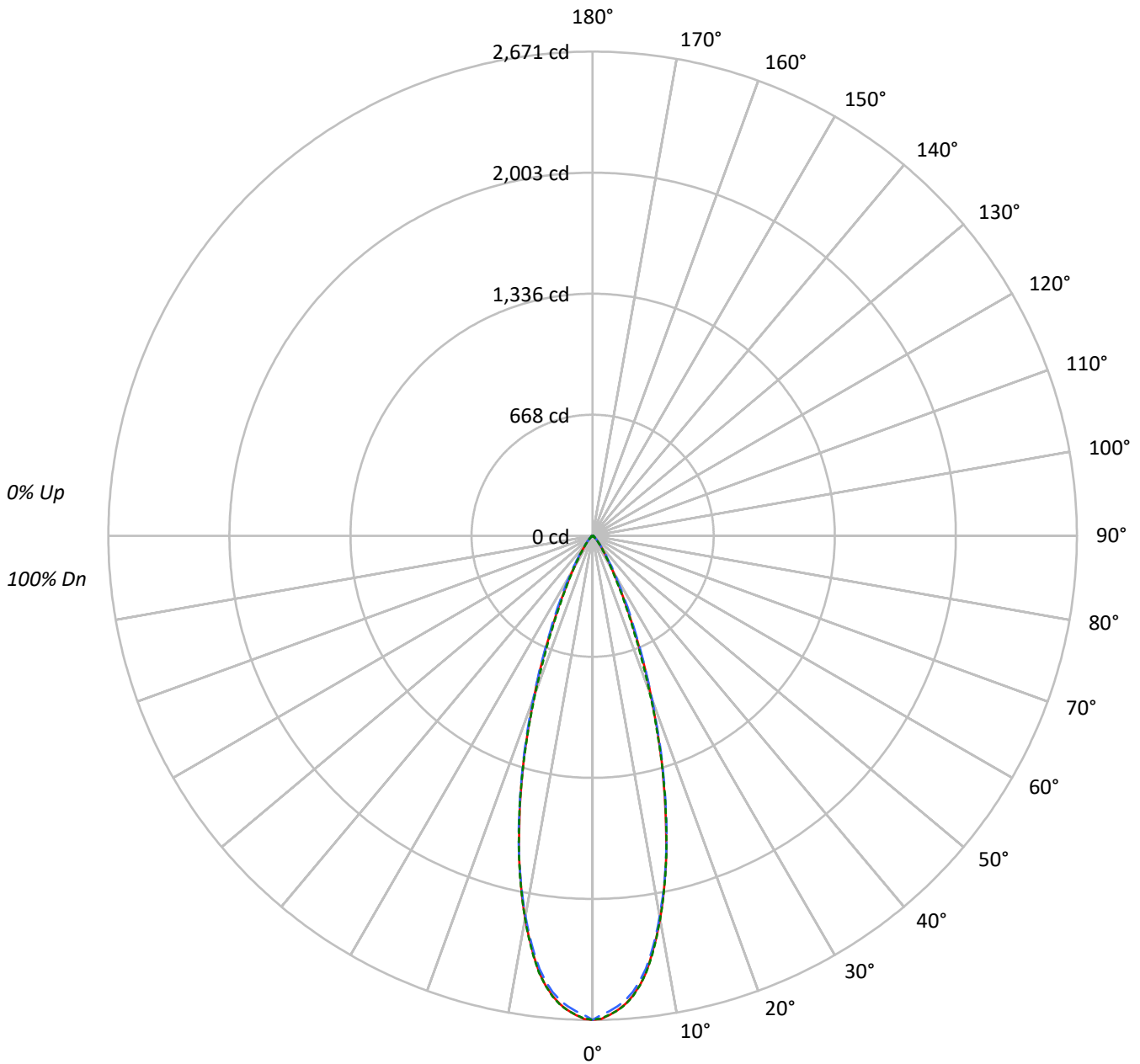
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1317671	1317671	1317671
5°	1261046	1251587	1262977
10°	1074336	1067623	1075488
15°	791840	796999	794445
20°	494311	503446	483443
25°	255361	273979	242514
30°	122425	140313	116672
35°	63180	69925	59144
40°	35422	37225	33619
45°	21560	21560	20722
50°	11206	13816	11206
55°	5763	9204	6279
60°	6611	6611	6611
65°	7238	7238	7238
70°	8943	8078	8943
75°	8578	8578	8578
80°	7955	7955	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	23.0
10°-20°	422.0	42.2
20°-30°	228.8	22.9
30°-40°	73.4	7.3
40°-50°	25.0	2.5
50°-60°	8.8	0.9
60°-70°	6.4	0.6
70°-80°	4.7	0.5
80°-90°	1.3	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°	880.5	88.0
0°-40°	953.9	95.4
0°-60°	987.7	98.8
0°-90°	1000.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1000.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2671	2671	2671	2671	2671	
5°	2546	2531	2527	2552	2550	230
15°	1550	1563	1560	1568	1555	420
25°	469	490	503	468	446	225
35°	105	109	116	106	98	71
45°	31	31	31	31	30	25
55°	7	8	11	8	7	7
65°	6	7	6	7	6	6
75°	4	4	4	4	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2670.8	2670.8	2670.8	2670.8	2670.8
1°	2666.3	2647.3	2644.5	2669.1	2663.5
2°	2645.0	2627.1	2624.3	2648.9	2643.9
3°	2621.5	2605.2	2599.6	2625.4	2622.0
4°	2590.0	2574.9	2569.8	2595.6	2592.8
5°	2546.3	2530.6	2527.2	2552.4	2550.2
6°	2492.4	2479.5	2473.3	2498.6	2494.1
7°	2425.1	2413.3	2406.6	2425.1	2427.3
8°	2337.5	2331.9	2324.1	2342.6	2342.6
9°	2244.4	2239.3	2230.9	2247.8	2247.8
10°	2144.5	2141.2	2131.1	2146.8	2146.8
11°	2035.1	2033.4	2026.1	2039.0	2039.0
12°	1920.1	1924.0	1917.3	1928.5	1924.6
13°	1805.1	1803.4	1803.9	1812.3	1806.2
14°	1674.9	1685.0	1686.7	1691.7	1682.2
15°	1550.3	1563.2	1560.4	1567.7	1555.4
16°	1422.9	1437.5	1437.0	1438.7	1426.9
17°	1304.0	1312.4	1313.0	1311.3	1296.7
18°	1177.2	1189.0	1189.0	1186.2	1168.8
19°	1053.2	1062.2	1068.3	1062.2	1042.0
20°	941.5	947.7	958.9	943.2	920.8
21°	834.4	840.0	849.5	831.0	806.3
22°	731.7	739.0	747.9	726.6	700.8
23°	635.7	652.6	655.9	626.7	604.9
24°	547.6	566.7	572.3	542.6	519.6
25°	469.1	490.4	503.3	468.5	445.5
26°	401.2	421.9	437.7	402.9	381.0
27°	341.7	363.6	379.9	347.3	326.6
28°	290.6	312.0	328.8	298.5	278.9
29°	252.5	264.8	281.7	256.4	238.5
30°	214.9	228.4	246.3	220.5	204.8
32.5°	147.6	154.9	168.9	153.2	140.8
35°	104.9	109.4	116.1	105.5	98.2
37.5°	74.6	76.9	80.8	74.6	70.7
40°	55.0	56.1	57.8	54.4	52.2
42.5°	41.0	41.5	41.5	40.4	39.3
45°	30.9	31.4	30.9	30.9	29.7
47.5°	22.4	24.1	23.6	23.6	21.9
50°	14.6	18.0	18.0	17.4	14.6
52.5°	9.0	12.3	14.0	12.3	9.5
55°	6.7	8.4	10.7	8.4	7.3
57.5°	6.7	6.7	7.9	6.7	6.7
60°	6.7	6.7	6.7	6.7	6.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.2	6.2	6.2	6.2	6.2
70°	6.2	6.2	5.6	6.2	6.2
72.5°	5.6	5.6	5.0	5.6	5.0
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.8	2.8	2.8	2.8	2.8
82.5°	1.7	1.7	1.7	2.2	1.7
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.7	6.7	6.7	6.7	6.7
65°	6.2	6.7	6.2	6.7	6.2



(END OF REPORT)