

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: P283679

Luminaire Tested: **LDA2B159035D010 EU2B15FL409035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283679
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: LDA2B159035D010 EU2B15FL409035 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: 1001.3 lumens
Efficiency: N/A
Efficacy: 71.0 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

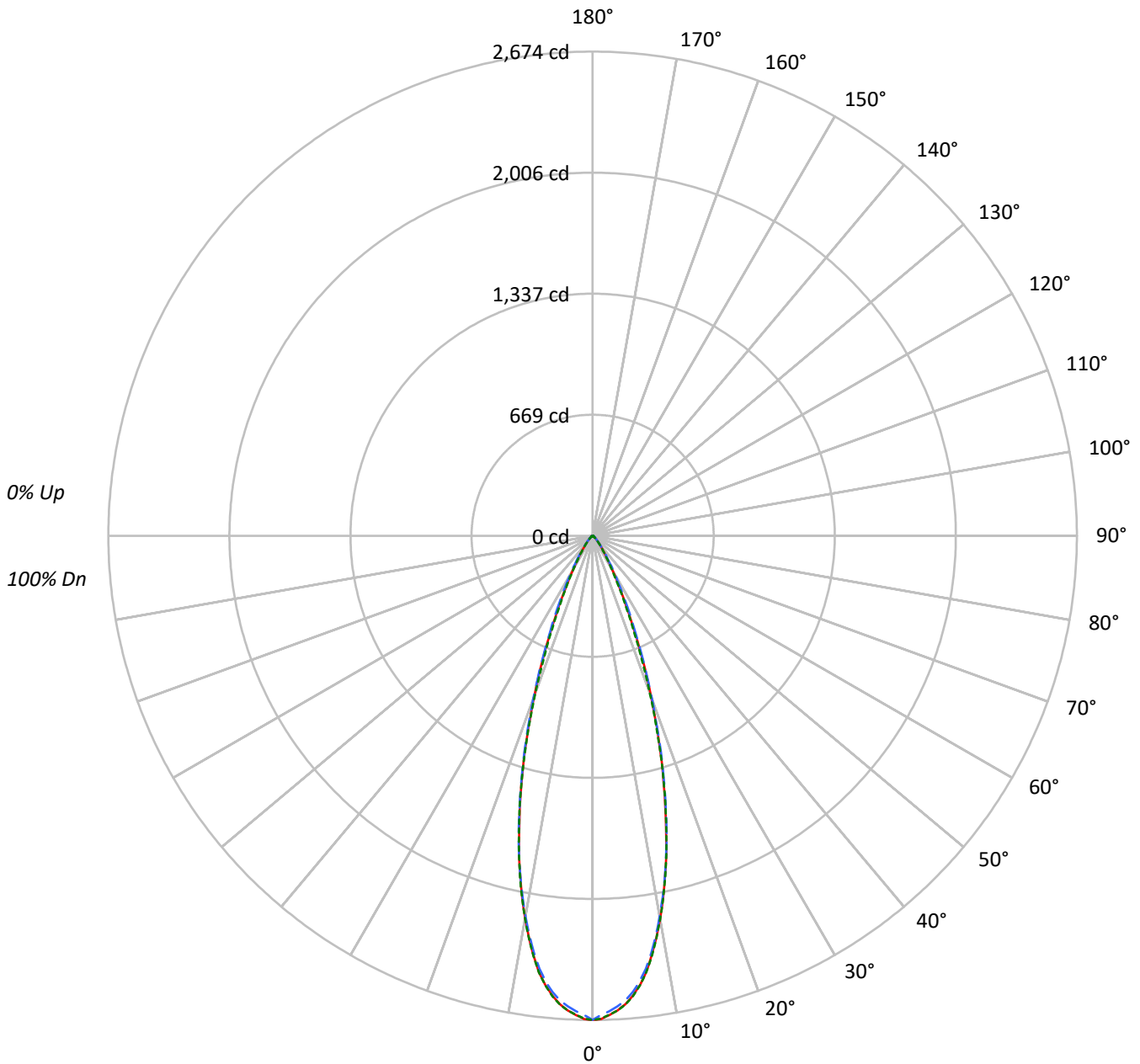
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1319299	1319299	1319299
5°	1262532	1253072	1264513
10°	1075638	1068875	1076791
15°	792811	797969	795364
20°	494941	504076	484020
25°	255634	274305	242841
30°	122596	140484	116785
35°	63300	70046	59204
40°	35486	37290	33619
45°	21560	21560	20792
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°	230.0	23.0
10°-20°	422.5	42.2
20°-30°	229.1	22.9
30°-40°	73.5	7.3
40°-50°	25.1	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°	881.5	88.0
0°-40°	955.1	95.4
0°-60°	988.9	98.8
0°-90°	1001.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2674	2674	2674	2674	2674	
5°	2549	2534	2530	2556	2553	231
15°	1552	1565	1562	1570	1557	421
25°	470	491	504	469	446	225
35°	105	110	116	106	98	71
45°	31	32	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°	2674.1	2674.1	2674.1	2674.1	2674.1
1°	2669.6	2650.5	2647.6	2672.4	2666.7
2°	2648.2	2630.2	2627.4	2652.1	2647.1
3°	2624.6	2608.3	2602.7	2628.5	2625.2
4°	2593.2	2578.0	2572.9	2598.8	2596.0
5°	2549.3	2533.6	2530.2	2555.5	2553.3
6°	2495.4	2482.5	2476.3	2501.6	2497.1
7°	2428.0	2416.2	2409.5	2428.0	2430.2
8°	2340.4	2334.7	2326.9	2345.4	2345.4
9°	2247.1	2242.0	2233.6	2250.5	2250.5
10°	2147.1	2143.7	2133.6	2149.4	2149.4
11°	2037.6	2035.9	2028.6	2041.5	2041.5
12°	1922.4	1926.3	1919.6	1930.8	1926.9
13°	1807.2	1805.5	1806.1	1814.5	1808.4
14°	1676.9	1687.0	1688.7	1693.8	1684.2
15°	1552.2	1565.1	1562.3	1569.6	1557.2
16°	1424.7	1439.3	1438.7	1440.4	1428.6
17°	1305.6	1314.0	1314.6	1312.9	1298.3
18°	1178.6	1190.4	1190.4	1187.6	1170.2
19°	1054.5	1063.4	1069.6	1063.4	1043.2
20°	942.7	948.8	960.1	944.3	921.9
21°	835.4	841.0	850.5	832.0	807.3
22°	732.6	739.9	748.8	727.5	701.7
23°	636.5	653.3	656.7	627.5	605.6
24°	548.3	567.4	573.0	543.2	520.2
25°	469.6	491.0	503.9	469.1	446.1
26°	401.7	422.5	438.2	403.4	381.4
27°	342.1	364.0	380.3	347.7	327.0
28°	291.0	312.3	329.2	298.9	279.2
29°	252.8	265.2	282.0	256.7	238.8
30°	215.2	228.6	246.6	220.8	205.0
32.5°	147.7	155.1	169.1	153.4	141.0
35°	105.1	109.5	116.3	105.6	98.3
37.5°	74.7	77.0	80.9	74.7	70.8
40°	55.1	56.2	57.9	54.5	52.2
42.5°	41.0	41.6	41.6	40.4	39.3
45°	30.9	31.5	30.9	30.9	29.8
47.5°	22.5	24.2	23.6	23.6	21.9
50°	14.6	18.0	18.0	17.4	14.6
52.5°	9.0	12.4	14.0	12.4	9.6
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	5.1	5.6	5.1
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)