

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: P283665

Luminaire Tested: **LDA2B159027D010 EU2B15FL409027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283665
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: LDA2B159027D010 EU2B15FL409027 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: 948.2 lumens
Efficiency: N/A
Efficacy: 67.2 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

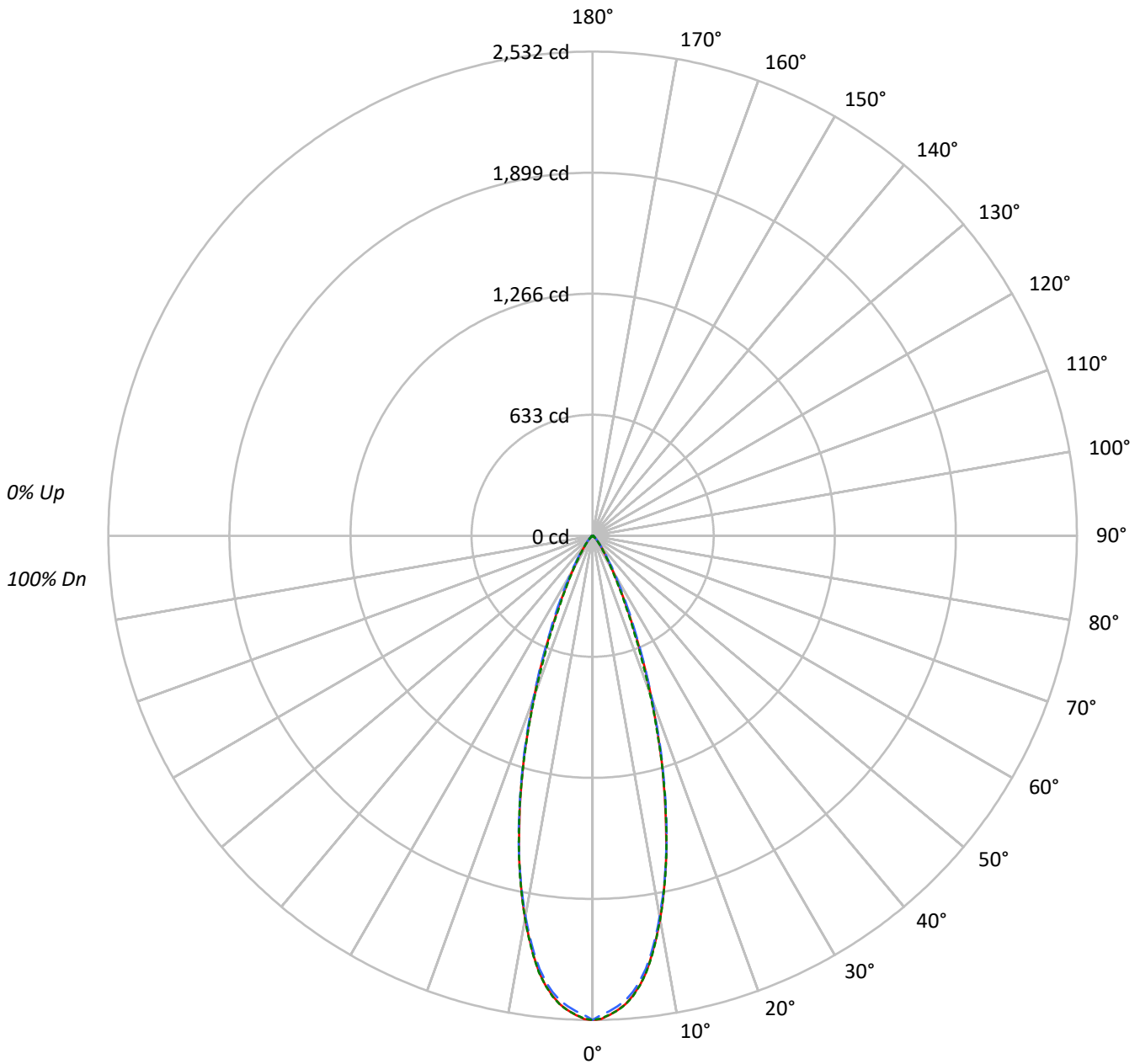
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1249192	1249192	1249192
5°	1195475	1186511	1197308
10°	1018477	1012115	1019580
15°	750672	755576	753124
20°	468637	477300	458294
25°	242079	259716	229940
30°	116045	133021	110633
35°	59927	66311	56073
40°	33554	35293	31880
45°	20443	20443	19676
50°	10592	13048	10592
55°	5505	8688	5935
60°	6315	6315	6315
65°	6888	6888	6888
70°	8511	7645	8511
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	23.0
10°-20°	400.0	42.2
20°-30°	216.9	22.9
30°-40°	69.6	7.3
40°-50°	23.7	2.5
50°-60°	8.3	0.9
60°-70°	6.1	0.6
70°-80°	4.4	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°	834.7	88.0
0°-40°	904.3	95.4
0°-60°	936.4	98.8
0°-90°	948.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2532	2532	2532	2532	2532	
5°	2414	2399	2396	2420	2418	218
15°	1470	1482	1479	1486	1474	398
25°	445	465	477	444	422	213
35°	100	104	110	100	93	67
45°	29	30	29	29	28	23
55°	6	8	10	8	7	7
65°	6	6	6	6	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°	2532.0	2532.0	2532.0	2532.0	2532.0
1°	2527.7	2509.6	2507.0	2530.4	2525.1
2°	2507.5	2490.5	2487.8	2511.2	2506.4
3°	2485.2	2469.7	2464.4	2488.9	2485.7
4°	2455.4	2441.0	2436.2	2460.7	2458.0
5°	2413.9	2399.0	2395.8	2419.7	2417.6
6°	2362.8	2350.6	2344.7	2368.7	2364.4
7°	2299.0	2287.8	2281.4	2299.0	2301.1
8°	2216.0	2210.7	2203.2	2220.8	2220.8
9°	2127.7	2122.9	2114.9	2130.9	2130.9
10°	2033.0	2029.8	2020.3	2035.2	2035.2
11°	1929.3	1927.7	1920.8	1933.0	1933.0
12°	1820.3	1824.0	1817.6	1828.2	1824.5
13°	1711.2	1709.6	1710.1	1718.1	1712.3
14°	1587.8	1597.4	1599.0	1603.8	1594.7
15°	1469.7	1481.9	1479.3	1486.2	1474.5
16°	1349.0	1362.8	1362.3	1363.9	1352.7
17°	1236.2	1244.2	1244.7	1243.1	1229.3
18°	1116.0	1127.2	1127.2	1124.5	1108.0
19°	998.4	1006.9	1012.8	1006.9	987.8
20°	892.6	898.4	909.1	894.2	872.9
21°	791.0	796.3	805.3	787.8	764.4
22°	693.6	700.5	709.1	688.8	664.4
23°	602.7	618.6	621.8	594.2	573.4
24°	519.2	537.2	542.6	514.4	492.6
25°	444.7	464.9	477.1	444.2	422.4
26°	380.3	400.0	414.9	381.9	361.2
27°	323.9	344.7	360.1	329.3	309.6
28°	275.5	295.8	311.7	283.0	264.4
29°	239.4	251.1	267.0	243.1	226.1
30°	203.7	216.5	233.5	209.0	194.2
32.5°	139.9	146.8	160.1	145.2	133.5
35°	99.5	103.7	110.1	100.0	93.1
37.5°	70.7	72.9	76.6	70.7	67.0
40°	52.1	53.2	54.8	51.6	49.5
42.5°	38.8	39.4	39.4	38.3	37.2
45°	29.3	29.8	29.3	29.3	28.2
47.5°	21.3	22.9	22.3	22.3	20.7
50°	13.8	17.0	17.0	16.5	13.8
52.5°	8.5	11.7	13.3	11.7	9.0
55°	6.4	8.0	10.1	8.0	6.9
57.5°	6.4	6.4	7.4	6.4	6.4
60°	6.4	6.4	6.4	6.4	6.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.3	5.9	5.9
72.5°	5.3	5.3	4.8	5.3	4.8
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.9	6.4	5.9	6.4	5.9



(END OF REPORT)