

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: P283688

Luminaire Tested: **LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283688
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: LDA2B159050D010 EU2B15FL409050 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: 1113.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

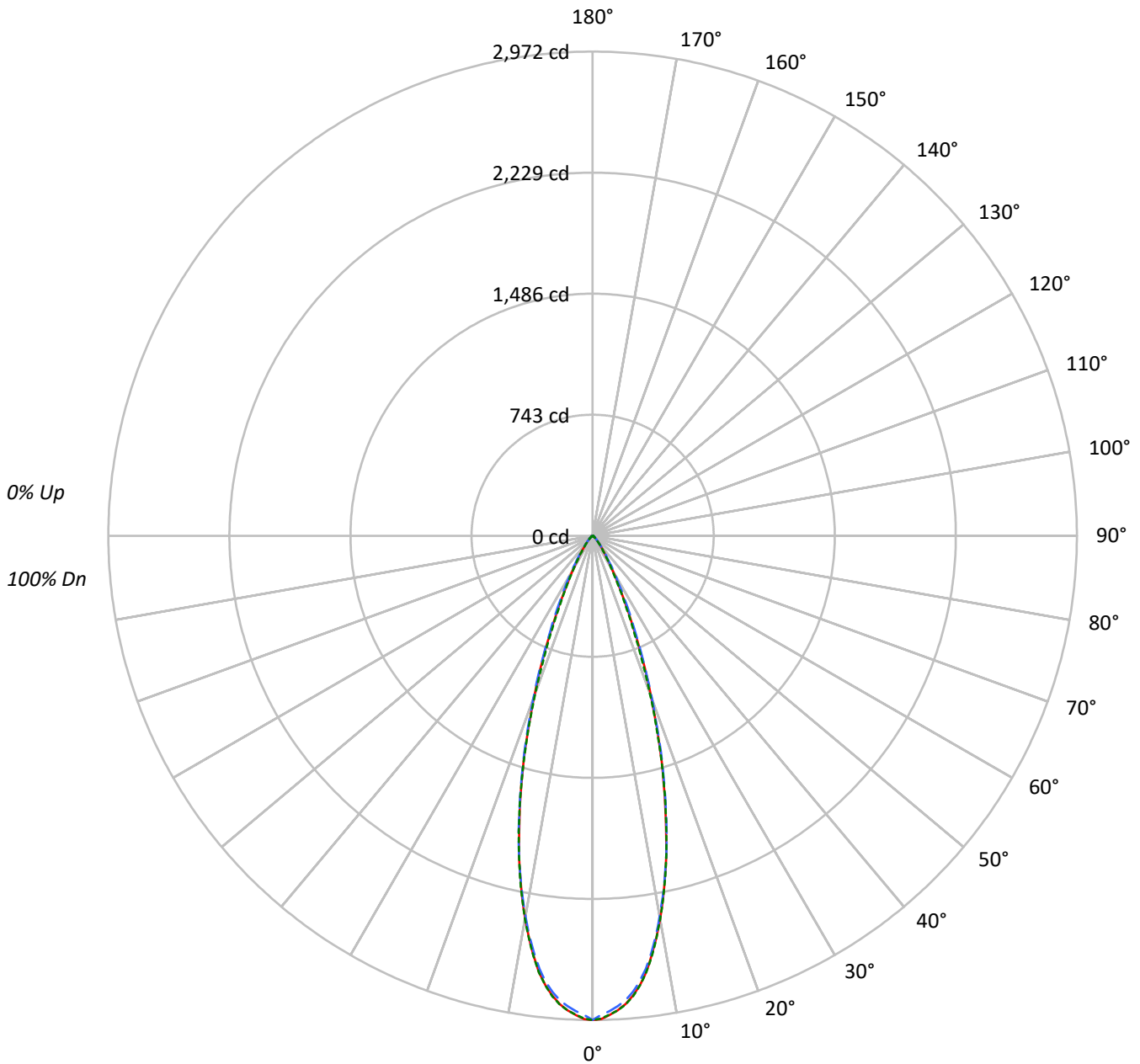
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1466469	1466469	1466469
5°	1403429	1392930	1405608
10°	1195672	1188157	1196924
15°	881275	886996	884135
20°	550121	560306	537993
25°	284158	304899	269896
30°	136269	156151	129831
35°	70347	77875	65830
40°	39415	41412	37419
45°	23932	23932	23094
50°	12434	15351	12434
55°	6451	10236	6967
60°	7400	7400	7400
65°	8055	8055	8055
70°	9953	8943	9953
75°	9531	9531	9531
80°	8808	8808	8808
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	23.0
10°-20°	469.6	42.2
20°-30°	254.6	22.9
30°-40°	81.7	7.3
40°-50°	27.9	2.5
50°-60°	9.8	0.9
60°-70°	7.1	0.6
70°-80°	5.2	0.5
80°-90°	1.5	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°	979.9	88.0
0°-40°	1061.6	95.4
0°-60°	1099.3	98.8
0°-90°	1113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2972	2972	2972	2972	2972	
5°	2834	2816	2813	2841	2838	256
15°	1725	1740	1737	1745	1731	468
25°	522	546	560	521	496	250
35°	117	122	129	117	109	79
45°	34	35	34	34	33	27
55°	8	9	12	9	8	8
65°	7	8	7	8	7	7
75°	5	5	5	5	5	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°	2972.4	2972.4	2972.4	2972.4	2972.4
1°	2967.4	2946.2	2943.1	2970.5	2964.3
2°	2943.7	2923.7	2920.6	2948.1	2942.4
3°	2917.5	2899.4	2893.1	2921.8	2918.1
4°	2882.5	2865.6	2860.0	2888.7	2885.6
5°	2833.8	2816.3	2812.6	2840.7	2838.2
6°	2773.8	2759.5	2752.6	2780.7	2775.7
7°	2698.9	2685.8	2678.3	2698.9	2701.4
8°	2601.5	2595.2	2586.5	2607.1	2607.1
9°	2497.8	2492.2	2482.8	2501.6	2501.6
10°	2386.7	2382.9	2371.7	2389.2	2389.2
11°	2264.9	2263.0	2254.9	2269.3	2269.3
12°	2136.9	2141.3	2133.8	2146.3	2141.9
13°	2008.9	2007.0	2007.6	2017.0	2010.1
14°	1864.0	1875.2	1877.1	1882.7	1872.1
15°	1725.4	1739.7	1736.6	1744.7	1731.0
16°	1583.6	1599.9	1599.2	1601.1	1588.0
17°	1451.2	1460.6	1461.2	1459.4	1443.1
18°	1310.1	1323.2	1323.2	1320.1	1300.7
19°	1172.1	1182.1	1189.0	1182.1	1159.6
20°	1047.8	1054.7	1067.2	1049.7	1024.7
21°	928.6	934.8	945.4	924.8	897.3
22°	814.3	822.4	832.4	808.7	779.9
23°	707.5	726.2	730.0	697.5	673.2
24°	609.5	630.7	636.9	603.9	578.2
25°	522.0	545.8	560.1	521.4	495.8
26°	446.5	469.6	487.1	448.4	424.0
27°	380.3	404.6	422.8	386.5	363.4
28°	323.5	347.2	365.9	332.2	310.4
29°	281.0	294.7	313.5	285.4	265.4
30°	239.2	254.2	274.1	245.4	227.9
32.5°	164.2	172.4	188.0	170.5	156.7
35°	116.8	121.8	129.3	117.4	109.3
37.5°	83.1	85.6	89.9	83.1	78.7
40°	61.2	62.4	64.3	60.6	58.1
42.5°	45.6	46.2	46.2	45.0	43.7
45°	34.3	35.0	34.3	34.3	33.1
47.5°	25.0	26.9	26.2	26.2	24.4
50°	16.2	20.0	20.0	19.4	16.2
52.5°	10.0	13.7	15.6	13.7	10.6
55°	7.5	9.4	11.9	9.4	8.1
57.5°	7.5	7.5	8.7	7.5	7.5
60°	7.5	7.5	7.5	7.5	7.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.2	6.9	6.9
72.5°	6.2	6.2	5.6	6.2	5.6
75°	5.0	5.0	5.0	5.0	5.0
77.5°	3.7	3.7	3.7	3.7	3.7
80°	3.1	3.1	3.1	3.1	3.1
82.5°	1.9	1.9	1.9	2.5	1.9
85°	1.2	1.2	1.2	1.2	1.2
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°	7.5	7.5	7.5	7.5	7.5
65°	6.9	7.5	6.9	7.5	6.9



(END OF REPORT)