

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: P283692

Luminaire Tested: **LDA2B159050D010 EU2B15FL409050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283692
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1011.8 lumens
Efficiency: N/A
Efficacy: 71.8 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

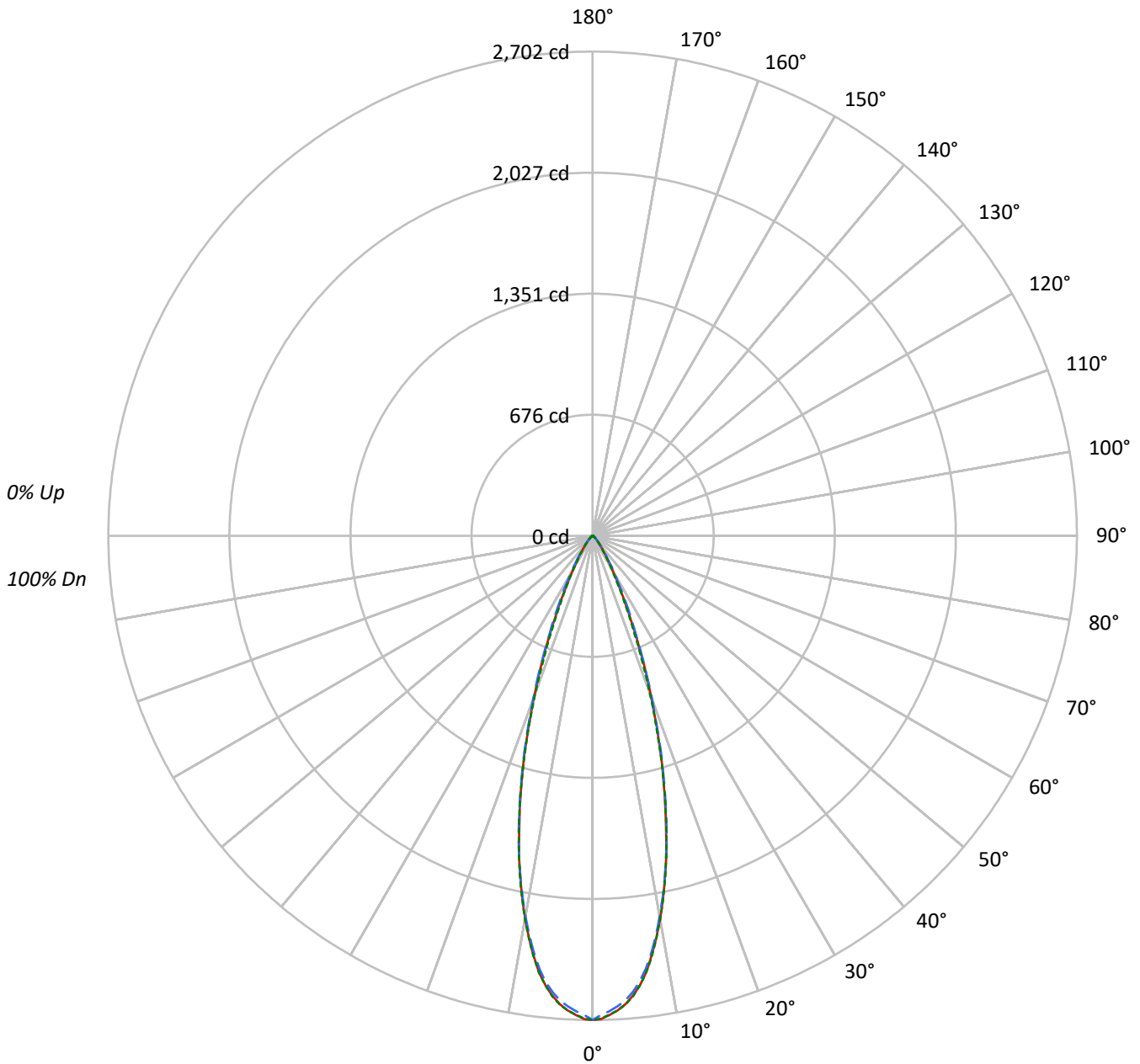
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	1333162	1333162	1333162
5°	1275854	1266295	1277785
10°	1086960	1080147	1088113
15°	801136	806346	803741
20°	500138	509379	489113
25°	258355	277190	245345
30°	123850	141966	118039
35°	63963	70768	59807
40°	35809	37676	34005
45°	21769	21769	21001
50°	11360	13969	11360
55°	5849	9290	6365
60°	6710	6710	6710
65°	7238	7238	7238
70°	8943	8222	8943
75°	8578	8578	8578
80°	7955	7955	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	23.0
10°-20°	426.9	42.2
20°-30°	231.5	22.9
30°-40°	74.3	7.3
40°-50°	25.3	2.5
50°-60°	8.9	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°	890.8	88.0
0°-40°	965.1	95.4
0°-60°	999.3	98.8
0°-90°	1011.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2702	2702	2702	2702	2702	
5°	2576	2560	2557	2582	2580	233
15°	1568	1582	1579	1586	1574	425
25°	475	496	509	474	451	227
35°	106	111	118	107	99	72
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°	2702.2	2702.2	2702.2	2702.2	2702.2
1°	2697.7	2678.4	2675.5	2700.5	2694.8
2°	2676.1	2657.9	2655.1	2680.1	2675.0
3°	2652.2	2635.8	2630.1	2656.2	2652.8
4°	2620.5	2605.1	2600.0	2626.1	2623.3
5°	2576.2	2560.3	2556.9	2582.4	2580.1
6°	2521.7	2508.6	2502.4	2527.9	2523.4
7°	2453.6	2441.6	2434.8	2453.6	2455.8
8°	2365.0	2359.3	2351.4	2370.1	2370.1
9°	2270.8	2265.6	2257.1	2274.2	2274.2
10°	2169.7	2166.3	2156.1	2172.0	2172.0
11°	2059.0	2057.3	2049.9	2063.0	2063.0
12°	1942.6	1946.6	1939.8	1951.1	1947.2
13°	1826.3	1824.6	1825.1	1833.6	1827.4
14°	1694.6	1704.8	1706.5	1711.6	1701.9
15°	1568.5	1581.6	1578.7	1586.1	1573.6
16°	1439.7	1454.4	1453.9	1455.6	1443.6
17°	1319.3	1327.8	1328.4	1326.7	1311.9
18°	1191.0	1202.9	1202.9	1200.1	1182.5
19°	1065.6	1074.6	1080.9	1074.6	1054.2
20°	952.6	958.8	970.2	954.3	931.6
21°	844.2	849.8	859.5	840.7	815.8
22°	740.3	747.6	756.7	735.2	709.0
23°	643.2	660.2	663.6	634.1	612.0
24°	554.1	573.4	579.0	549.0	525.7
25°	474.6	496.2	509.2	474.0	450.7
26°	405.9	426.9	442.8	407.6	385.5
27°	345.7	367.9	384.3	351.4	330.4
28°	294.1	315.6	332.7	302.0	282.1
29°	255.5	267.9	285.0	259.4	241.3
30°	217.4	231.0	249.2	223.1	207.2
32.5°	149.3	156.7	170.9	155.0	142.5
35°	106.2	110.7	117.5	106.7	99.3
37.5°	75.5	77.8	81.7	75.5	71.5
40°	55.6	56.8	58.5	55.1	52.8
42.5°	41.4	42.0	42.0	40.9	39.7
45°	31.2	31.8	31.2	31.2	30.1
47.5°	22.7	24.4	23.8	23.8	22.1
50°	14.8	18.2	18.2	17.6	14.8
52.5°	9.1	12.5	14.2	12.5	9.7
55°	6.8	8.5	10.8	8.5	7.4
57.5°	6.8	6.8	7.9	6.8	6.8
60°	6.8	6.8	6.8	6.8	6.8



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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	5.7	6.2	6.2
72.5°	5.7	5.7	5.1	5.7	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	2.3	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°	6.8	6.8	6.8	6.8	6.8
65°	6.2	6.8	6.2	6.8	6.2



(END OF REPORT)