

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: P283694

Luminaire Tested: **LDA2B159727D010 EU2B15FL409727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283694
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: LDA2B159727D010 EU2B15FL409727 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: 881.3 lumens
Efficiency: N/A
Efficacy: 62.5 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

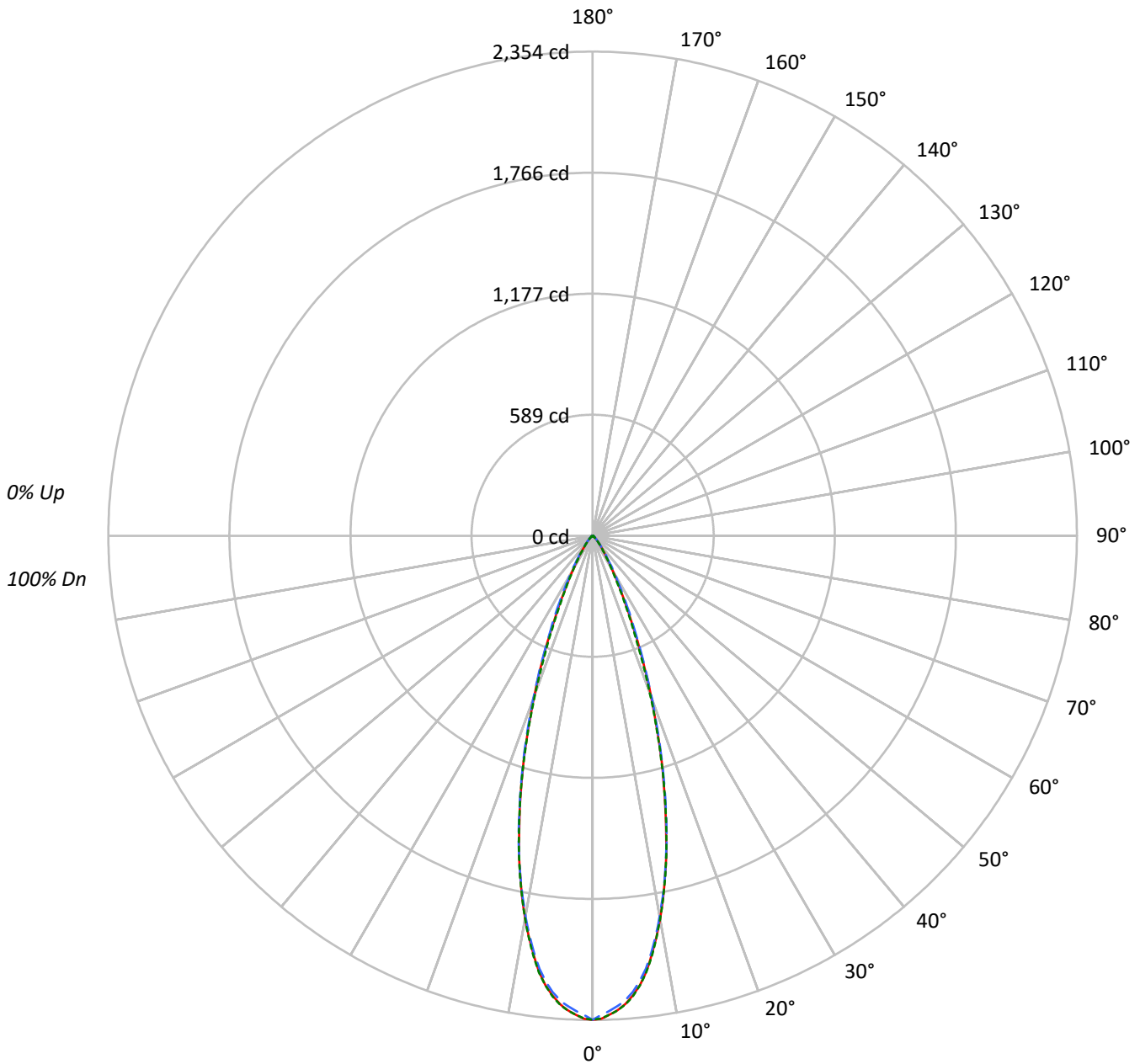
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1161127	1161127	1161127
5°	1111184	1102864	1112918
10°	946688	940727	947690
15°	697757	702303	700055
20°	435613	443646	426005
25°	224986	241426	213718
30°	107898	123679	102828
35°	55711	61614	52098
40°	31236	32782	29626
45°	18978	18978	18280
50°	9901	12127	9901
55°	5075	8085	5505
60°	5822	5822	5822
65°	6304	6304	6304
70°	7789	7068	7789
75°	7625	7625	7625
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	23.0
10°-20°	371.8	42.2
20°-30°	201.6	22.9
30°-40°	64.7	7.3
40°-50°	22.1	2.5
50°-60°	7.7	0.9
60°-70°	5.6	0.6
70°-80°	4.1	0.5
80°-90°	1.2	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°	775.9	88.0
0°-40°	840.6	95.4
0°-60°	870.4	98.8
0°-90°	881.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	881.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2354	2354	2354	2354	2354	
5°	2244	2230	2227	2249	2247	203
15°	1366	1378	1375	1381	1371	370
25°	413	432	444	413	393	198
35°	92	96	102	93	86	62
45°	27	28	27	27	26	22
55°	6	7	9	7	6	6
65°	5	6	5	6	5	6
75°	4	4	4	4	4	4
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°	2353.5	2353.5	2353.5	2353.5	2353.5
1°	2349.5	2332.7	2330.3	2352.0	2347.1
2°	2330.7	2314.9	2312.5	2334.2	2329.8
3°	2310.0	2295.6	2290.7	2313.4	2310.5
4°	2282.3	2268.9	2264.5	2287.2	2284.8
5°	2243.7	2229.9	2226.9	2249.2	2247.2
6°	2196.3	2184.9	2179.4	2201.7	2197.7
7°	2136.9	2126.5	2120.6	2136.9	2138.9
8°	2059.8	2054.9	2047.9	2064.2	2064.2
9°	1977.7	1973.3	1965.9	1980.7	1980.7
10°	1889.7	1886.7	1877.8	1891.7	1891.7
11°	1793.3	1791.8	1785.4	1796.8	1796.8
12°	1691.9	1695.4	1689.5	1699.4	1695.9
13°	1590.6	1589.1	1589.6	1597.0	1591.6
14°	1475.9	1484.8	1486.3	1490.7	1482.3
15°	1366.1	1377.5	1375.0	1381.4	1370.6
16°	1253.9	1266.7	1266.2	1267.7	1257.3
17°	1149.1	1156.5	1157.0	1155.5	1142.6
18°	1037.3	1047.7	1047.7	1045.2	1029.9
19°	928.0	936.0	941.4	936.0	918.2
20°	829.7	835.1	845.0	831.1	811.4
21°	735.2	740.2	748.6	732.3	710.5
22°	644.7	651.2	659.1	640.3	617.5
23°	560.2	575.0	578.0	552.3	533.0
24°	482.6	499.4	504.3	478.1	457.8
25°	413.3	432.1	443.5	412.8	392.6
26°	353.5	371.8	385.7	355.0	335.7
27°	301.1	320.4	334.7	306.1	287.8
28°	256.1	274.9	289.7	263.0	245.7
29°	222.5	233.4	248.2	226.0	210.1
30°	189.4	201.2	217.1	194.3	180.5
32.5°	130.0	136.5	148.8	135.0	124.1
35°	92.5	96.4	102.3	93.0	86.5
37.5°	65.8	67.7	71.2	65.8	62.3
40°	48.5	49.4	50.9	48.0	46.0
42.5°	36.1	36.6	36.6	35.6	34.6
45°	27.2	27.7	27.2	27.2	26.2
47.5°	19.8	21.3	20.8	20.8	19.3
50°	12.9	15.8	15.8	15.3	12.9
52.5°	7.9	10.9	12.4	10.9	8.4
55°	5.9	7.4	9.4	7.4	6.4
57.5°	5.9	5.9	6.9	5.9	5.9
60°	5.9	5.9	5.9	5.9	5.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.9	5.4	5.4
72.5°	4.9	4.9	4.4	4.9	4.4
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
85°	1.0	1.0	1.0	1.0	1.0
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°	5.9	5.9	5.9	5.9	5.9
65°	5.4	5.9	5.4	5.9	5.4



(END OF REPORT)