

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: P282357

Luminaire Tested: **LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 967.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

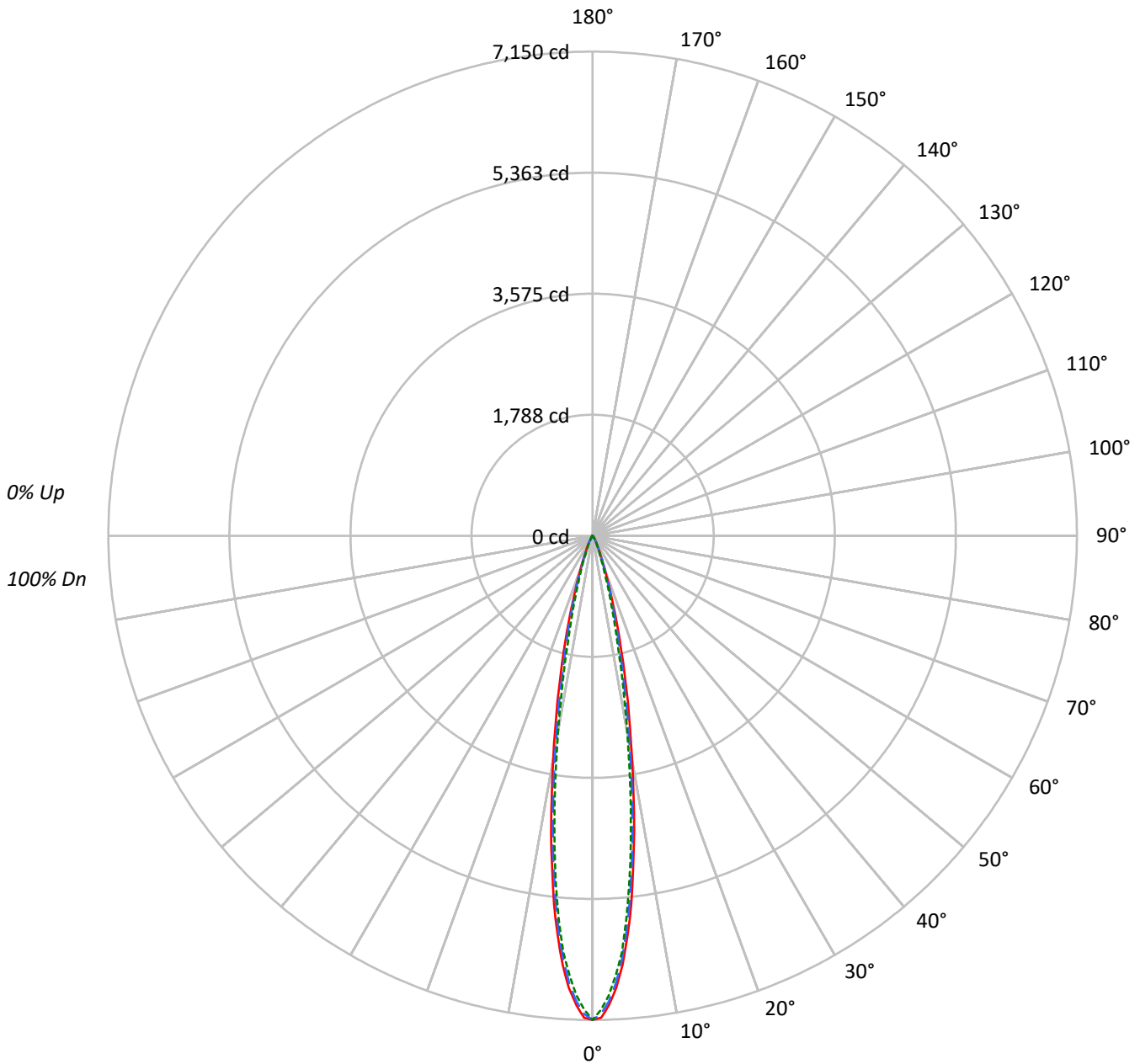
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3527487	3527487	3527487
5°	2935226	2881442	2823251
10°	1681264	1577663	1472409
15°	747812	664149	556530
20°	271280	255057	202082
25°	104137	97278	83778
30°	44948	41758	37087
35°	21261	21261	17587
40°	10627	11013	8888
45°	6140	5791	5372
50°	4221	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	48.1
10°-20°	376.3	38.9
20°-30°	90.7	9.4
30°-40°	23.1	2.4
40°-50°	6.9	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	0.1
80°-90°	0.0	0.0
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°	932.1	96.4
0°-40°	955.2	98.8
0°-60°	965.1	99.8
0°-90°	967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7150	7150	7150	7150	7150	
5°	5927	5872	5818	5767	5701	479
15°	1464	1429	1300	1171	1090	417
25°	191	192	179	162	154	99
35°	35	36	35	32	29	24
45°	9	9	8	8	8	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7149.9	7149.9	7149.9	7149.9	7149.9
1°	7117.9	7068.3	7062.2	7093.1	7002.1
2°	6935.9	6900.6	6880.2	6898.4	6795.3
3°	6686.1	6651.9	6615.0	6615.6	6500.3
4°	6345.9	6318.9	6256.6	6237.8	6171.1
5°	5926.8	5872.2	5818.2	5767.4	5700.7
6°	5463.6	5393.0	5315.8	5240.3	5171.9
7°	4918.8	4871.9	4769.9	4666.8	4608.9
8°	4406.5	4331.0	4211.9	4082.8	4033.7
9°	3855.6	3801.6	3664.8	3514.8	3465.8
10°	3356.0	3299.8	3149.2	2982.2	2939.1
11°	2887.3	2834.4	2677.8	2502.4	2456.6
12°	2490.8	2415.8	2236.1	2083.9	2039.2
13°	2096.0	2044.7	1874.3	1723.8	1637.2
14°	1760.2	1717.7	1563.3	1431.0	1339.4
15°	1464.1	1429.3	1300.3	1171.2	1089.6
16°	1201.0	1179.5	1077.5	952.9	886.2
17°	974.4	954.5	889.5	774.8	718.5
18°	786.9	784.1	730.1	630.8	580.7
19°	647.4	646.3	596.7	513.4	472.0
20°	516.7	523.9	485.8	413.0	384.9
21°	421.3	425.2	394.8	339.7	314.3
22°	343.0	345.7	325.9	280.7	266.9
23°	281.2	282.9	266.3	232.7	220.6
24°	231.6	232.7	217.8	194.1	183.6
25°	191.3	192.5	178.7	162.1	153.9
26°	158.8	159.9	147.8	136.2	127.9
27°	131.8	134.0	121.9	114.7	105.9
28°	112.5	113.0	102.0	97.6	89.3
29°	92.1	95.4	86.0	82.2	76.1
30°	78.9	80.5	73.3	70.6	65.1
32.5°	52.4	53.5	50.2	48.0	43.6
35°	35.3	35.8	35.3	32.0	29.2
37.5°	24.3	24.3	24.8	21.0	19.9
40°	16.5	16.5	17.1	14.3	13.8
42.5°	12.1	12.1	11.6	9.9	9.9
45°	8.8	8.8	8.3	7.7	7.7
47.5°	7.2	6.6	6.1	6.1	6.1
50°	5.5	5.5	5.0	4.4	5.0
52.5°	4.4	4.4	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)