

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: P283611

Luminaire Tested: **LDA2B109727D010 EU2B10FL409727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283611
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: LDA2B109727D010 EU2B10FL409727 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 641.2 lumens
Efficiency: N/A
Efficacy: 64.1 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

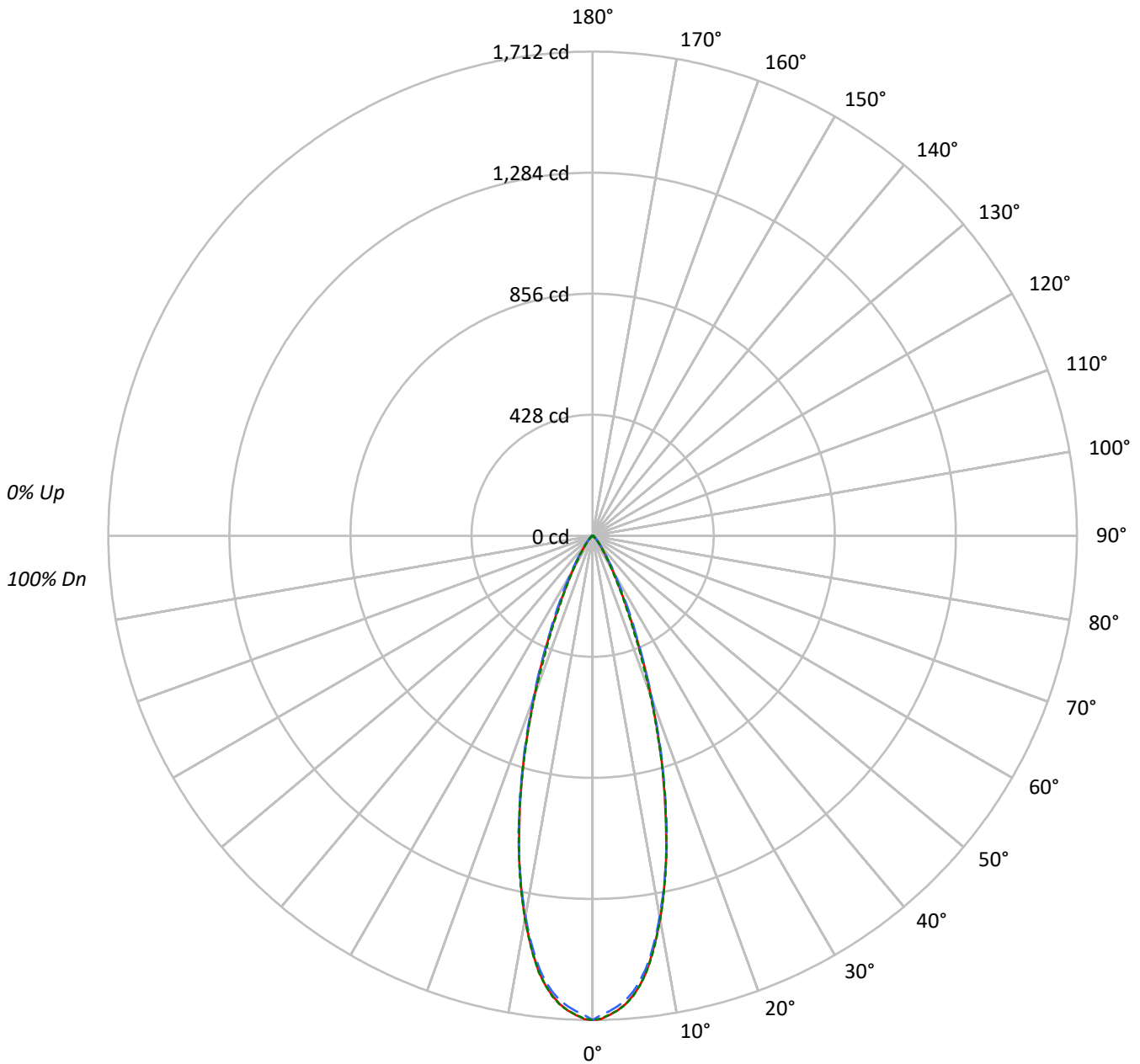
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	844734	844734	844734
5°	808391	802349	809629
10°	688737	684379	689439
15°	507650	510919	509284
20°	316905	322733	309922
25°	163690	175666	155471
30°	78503	89953	74800
35°	40534	44870	37884
40°	22735	23829	21575
45°	13815	13815	13326
50°	7215	8827	7215
55°	3699	5849	4043
60°	4243	4243	4243
65°	4670	4670	4670
70°	5770	5193	5770
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	23.0
10°-20°	270.5	42.2
20°-30°	146.7	22.9
30°-40°	47.1	7.3
40°-50°	16.1	2.5
50°-60°	5.6	0.9
60°-70°	4.1	0.6
70°-80°	3.0	0.5
80°-90°	0.9	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°	564.5	88.0
0°-40°	611.5	95.4
0°-60°	633.2	98.8
0°-90°	641.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1712	1712	1712	1712	1712	
5°	1632	1622	1620	1636	1635	148
15°	994	1002	1000	1005	997	269
25°	301	314	323	300	286	144
35°	67	70	74	68	63	45
45°	20	20	20	20	19	16
55°	4	5	7	5	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1712.2	1712.2	1712.2	1712.2	1712.2
1°	1709.3	1697.1	1695.3	1711.1	1707.5
2°	1695.6	1684.1	1682.3	1698.1	1694.9
3°	1680.5	1670.1	1666.5	1683.0	1680.9
4°	1660.4	1650.7	1647.4	1664.0	1662.2
5°	1632.3	1622.2	1620.1	1636.3	1634.8
6°	1597.8	1589.5	1585.6	1601.7	1598.9
7°	1554.6	1547.1	1542.8	1554.6	1556.1
8°	1498.5	1494.9	1489.9	1501.8	1501.8
9°	1438.8	1435.6	1430.2	1441.0	1441.0
10°	1374.8	1372.6	1366.1	1376.2	1376.2
11°	1304.6	1303.6	1298.9	1307.2	1307.2
12°	1230.9	1233.4	1229.1	1236.3	1233.8
13°	1157.2	1156.1	1156.4	1161.8	1157.9
14°	1073.7	1080.2	1081.3	1084.5	1078.4
15°	993.9	1002.1	1000.3	1005.0	997.1
16°	912.2	921.6	921.2	922.3	914.7
17°	835.9	841.3	841.7	840.6	831.3
18°	754.7	762.2	762.2	760.4	749.3
19°	675.2	680.9	684.9	680.9	668.0
20°	603.6	607.5	614.7	604.7	590.3
21°	534.9	538.5	544.6	532.7	516.9
22°	469.0	473.7	479.5	465.8	449.3
23°	407.5	418.3	420.5	401.8	387.8
24°	351.1	363.3	366.9	347.8	333.1
25°	300.7	314.4	322.7	300.4	285.6
26°	257.2	270.5	280.6	258.3	244.2
27°	219.1	233.1	243.5	222.7	209.3
28°	186.3	200.0	210.8	191.4	178.8
29°	161.9	169.8	180.6	164.4	152.9
30°	137.8	146.4	157.9	141.4	131.3
32.5°	94.6	99.3	108.3	98.2	90.3
35°	67.3	70.1	74.5	67.6	62.9
37.5°	47.8	49.3	51.8	47.8	45.3
40°	35.3	36.0	37.0	34.9	33.5
42.5°	26.3	26.6	26.6	25.9	25.2
45°	19.8	20.1	19.8	19.8	19.1
47.5°	14.4	15.5	15.1	15.1	14.0
50°	9.4	11.5	11.5	11.2	9.4
52.5°	5.8	7.9	9.0	7.9	6.1
55°	4.3	5.4	6.8	5.4	4.7
57.5°	4.3	4.3	5.0	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.6	4.0	4.0
72.5°	3.6	3.6	3.2	3.6	3.2
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.4	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.3	4.3	4.3	4.3	4.3
65°	4.0	4.3	4.0	4.3	4.0



(END OF REPORT)