

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: P283615

Luminaire Tested: **LDA2B109727D010 EU2B10FL409727 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283615
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 611.4 lumens
Efficiency: N/A
Efficacy: 61.1 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

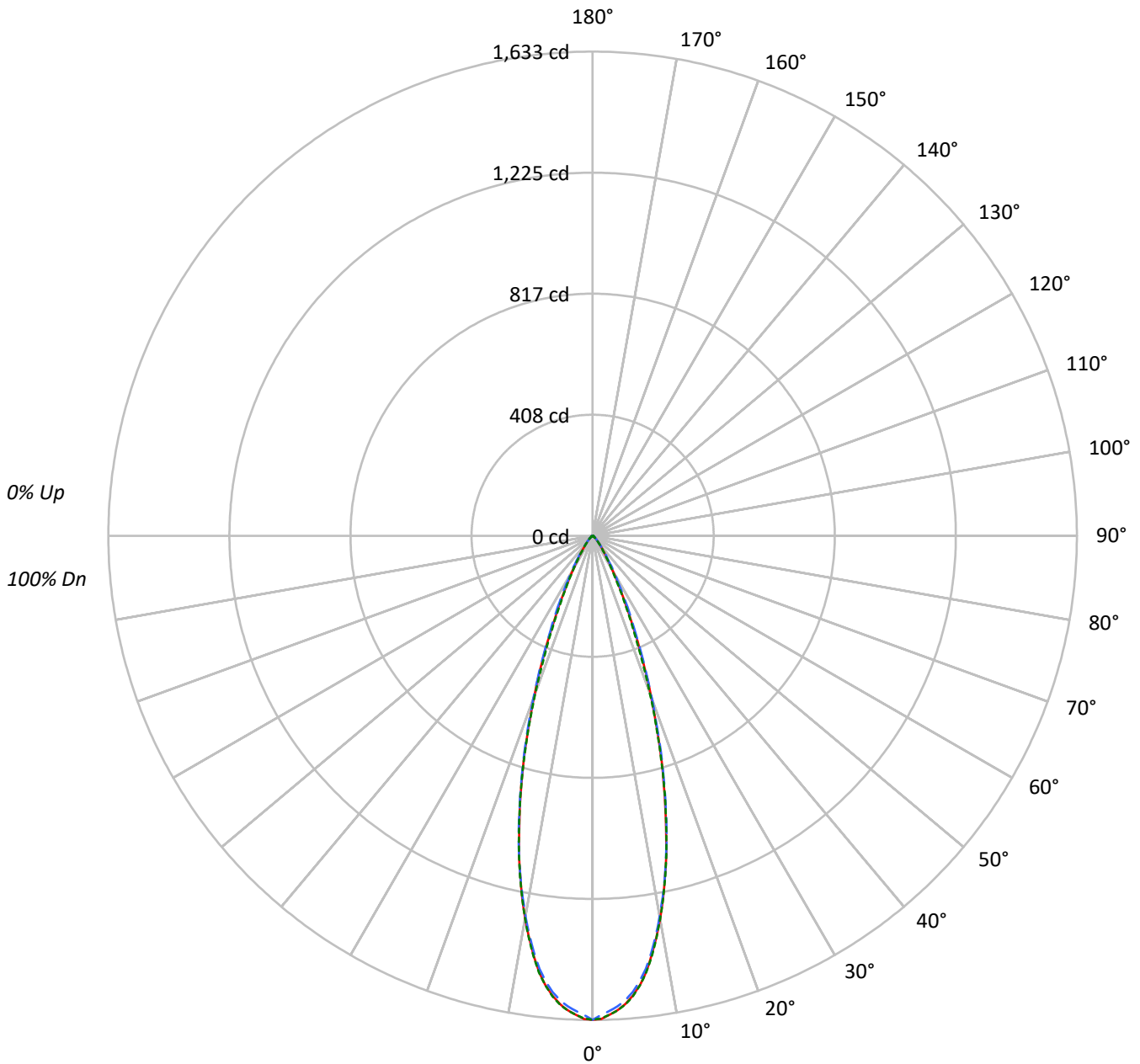
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283615

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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°	805561	805561	805561
5°	770900	765156	772089
10°	656775	652667	657477
15°	484104	487219	485636
20°	302204	307769	295536
25°	156124	167501	148285
30°	74857	85795	71325
35°	38606	42762	36137
40°	21640	22735	20545
45°	13187	13187	12698
50°	6831	8443	6831
55°	3527	5591	3871
60°	4046	4046	4046
65°	4436	4436	4436
70°	5481	4904	5481
75°	5147	5147	5147
80°	4830	4830	4830
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	23.0
10°-20°	258.0	42.2
20°-30°	139.9	22.9
30°-40°	44.9	7.3
40°-50°	15.3	2.5
50°-60°	5.3	0.9
60°-70°	3.9	0.6
70°-80°	2.8	0.5
80°-90°	0.8	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°	538.3	88.0
0°-40°	583.2	95.4
0°-60°	603.8	98.8
0°-90°	611.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1557	1547	1545	1560	1559	141
15°	948	956	954	958	951	257
25°	287	300	308	286	272	137
35°	64	67	71	64	60	43
45°	19	19	19	19	18	15
55°	4	5	6	5	4	4
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°	1632.8	1632.8	1632.8	1632.8	1632.8
1°	1630.0	1618.4	1616.6	1631.7	1628.3
2°	1617.0	1606.0	1604.3	1619.4	1616.3
3°	1602.6	1592.6	1589.2	1605.0	1602.9
4°	1583.4	1574.1	1571.0	1586.8	1585.1
5°	1556.6	1547.0	1545.0	1560.4	1559.0
6°	1523.7	1515.8	1512.0	1527.5	1524.7
7°	1482.5	1475.3	1471.2	1482.5	1483.9
8°	1429.0	1425.6	1420.8	1432.1	1432.1
9°	1372.1	1369.0	1363.8	1374.1	1374.1
10°	1311.0	1309.0	1302.8	1312.4	1312.4
11°	1244.1	1243.1	1238.6	1246.5	1246.5
12°	1173.8	1176.2	1172.1	1179.0	1176.6
13°	1103.5	1102.5	1102.8	1108.0	1104.2
14°	1023.9	1030.1	1031.1	1034.2	1028.4
15°	947.8	955.7	953.9	958.4	950.8
16°	869.9	878.8	878.5	879.5	872.3
17°	797.2	802.3	802.7	801.6	792.7
18°	719.7	726.9	726.9	725.1	714.5
19°	643.8	649.3	653.1	649.3	637.0
20°	575.6	579.4	586.2	576.6	562.9
21°	510.1	513.5	519.3	508.0	492.9
22°	447.3	451.8	457.2	444.2	428.4
23°	388.6	398.9	401.0	383.2	369.8
24°	334.8	346.4	349.9	331.7	317.6
25°	286.8	299.8	307.7	286.4	272.4
26°	245.3	258.0	267.6	246.3	232.9
27°	208.9	222.3	232.2	212.3	199.6
28°	177.7	190.7	201.0	182.5	170.5
29°	154.4	161.9	172.2	156.8	145.8
30°	131.4	139.6	150.6	134.8	125.2
32.5°	90.2	94.7	103.2	93.6	86.1
35°	64.1	66.9	71.0	64.5	60.0
37.5°	45.6	47.0	49.4	45.6	43.2
40°	33.6	34.3	35.3	33.3	31.9
42.5°	25.0	25.4	25.4	24.7	24.0
45°	18.9	19.2	18.9	18.9	18.2
47.5°	13.7	14.7	14.4	14.4	13.4
50°	8.9	11.0	11.0	10.6	8.9
52.5°	5.5	7.5	8.6	7.5	5.8
55°	4.1	5.1	6.5	5.1	4.5
57.5°	4.1	4.1	4.8	4.1	4.1
60°	4.1	4.1	4.1	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.4	3.8	3.8
72.5°	3.4	3.4	3.1	3.4	3.1
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.0	1.0	1.0	1.4	1.0
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.8	4.1	3.8	4.1	3.8



(END OF REPORT)