

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: P283620

Luminaire Tested: **LDA2B109730D010 EU2B10FL409730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283620
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: LDA2B109730D010 EU2B10FL409730 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 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: 640.8 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

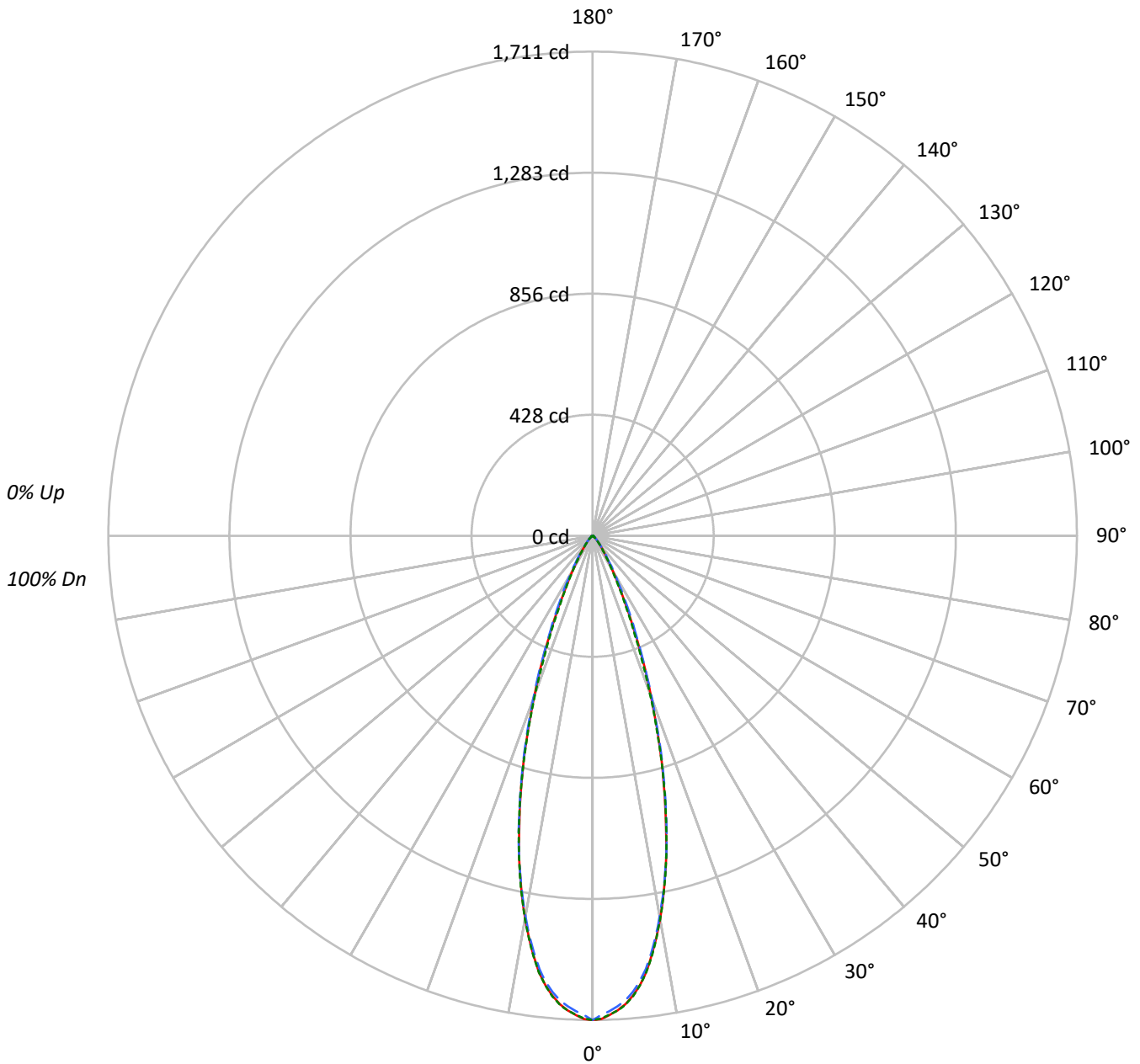
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	844290	844290	844290
5°	807994	801952	809233
10°	688387	684078	689088
15°	507395	510664	509029
20°	316747	322575	309765
25°	163636	175558	155416
30°	78446	89896	74743
35°	40473	44810	37884
40°	22670	23829	21511
45°	13815	13815	13326
50°	7138	8827	7138
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°	147.2	23.0
10°-20°	270.4	42.2
20°-30°	146.6	22.9
30°-40°	47.1	7.3
40°-50°	16.0	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°	564.2	88.0
0°-40°	611.2	95.4
0°-60°	632.9	98.8
0°-90°	640.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	640.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1632	1622	1619	1636	1634	148
15°	993	1002	1000	1004	997	269
25°	301	314	322	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°	1711.3	1711.3	1711.3	1711.3	1711.3
1°	1708.5	1696.2	1694.4	1710.3	1706.7
2°	1694.8	1683.3	1681.5	1697.3	1694.1
3°	1679.7	1669.3	1665.7	1682.2	1680.1
4°	1659.6	1649.9	1646.6	1663.2	1661.4
5°	1631.5	1621.5	1619.3	1635.5	1634.0
6°	1597.0	1588.7	1584.8	1601.0	1598.1
7°	1553.9	1546.3	1542.0	1553.9	1555.3
8°	1497.8	1494.2	1489.1	1501.0	1501.0
9°	1438.1	1434.9	1429.5	1440.3	1440.3
10°	1374.1	1371.9	1365.5	1375.5	1375.5
11°	1304.0	1302.9	1298.2	1306.5	1306.5
12°	1230.3	1232.8	1228.5	1235.7	1233.2
13°	1156.6	1155.5	1155.9	1161.3	1157.3
14°	1073.2	1079.6	1080.7	1084.0	1077.9
15°	993.4	1001.6	999.8	1004.5	996.6
16°	911.8	921.1	920.7	921.8	914.3
17°	835.5	840.9	841.3	840.2	830.9
18°	754.3	761.8	761.8	760.0	748.9
19°	674.8	680.6	684.5	680.6	667.6
20°	603.3	607.2	614.4	604.4	590.0
21°	534.6	538.2	544.3	532.5	516.6
22°	468.8	473.5	479.2	465.6	449.0
23°	407.3	418.1	420.3	401.6	387.6
24°	350.9	363.1	366.7	347.7	332.9
25°	300.6	314.2	322.5	300.2	285.5
26°	257.1	270.4	280.4	258.1	244.1
27°	218.9	233.0	243.4	222.5	209.2
28°	186.2	199.9	210.7	191.3	178.7
29°	161.8	169.7	180.5	164.3	152.8
30°	137.7	146.3	157.8	141.3	131.2
32.5°	94.6	99.2	108.2	98.1	90.2
35°	67.2	70.1	74.4	67.6	62.9
37.5°	47.8	49.3	51.8	47.8	45.3
40°	35.2	36.0	37.0	34.9	33.4
42.5°	26.2	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°	9.3	11.5	11.5	11.1	9.3
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)