

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: P283625

Luminaire Tested: **LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283625
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: LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 672.3 lumens
Efficiency: N/A
Efficacy: 67.2 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

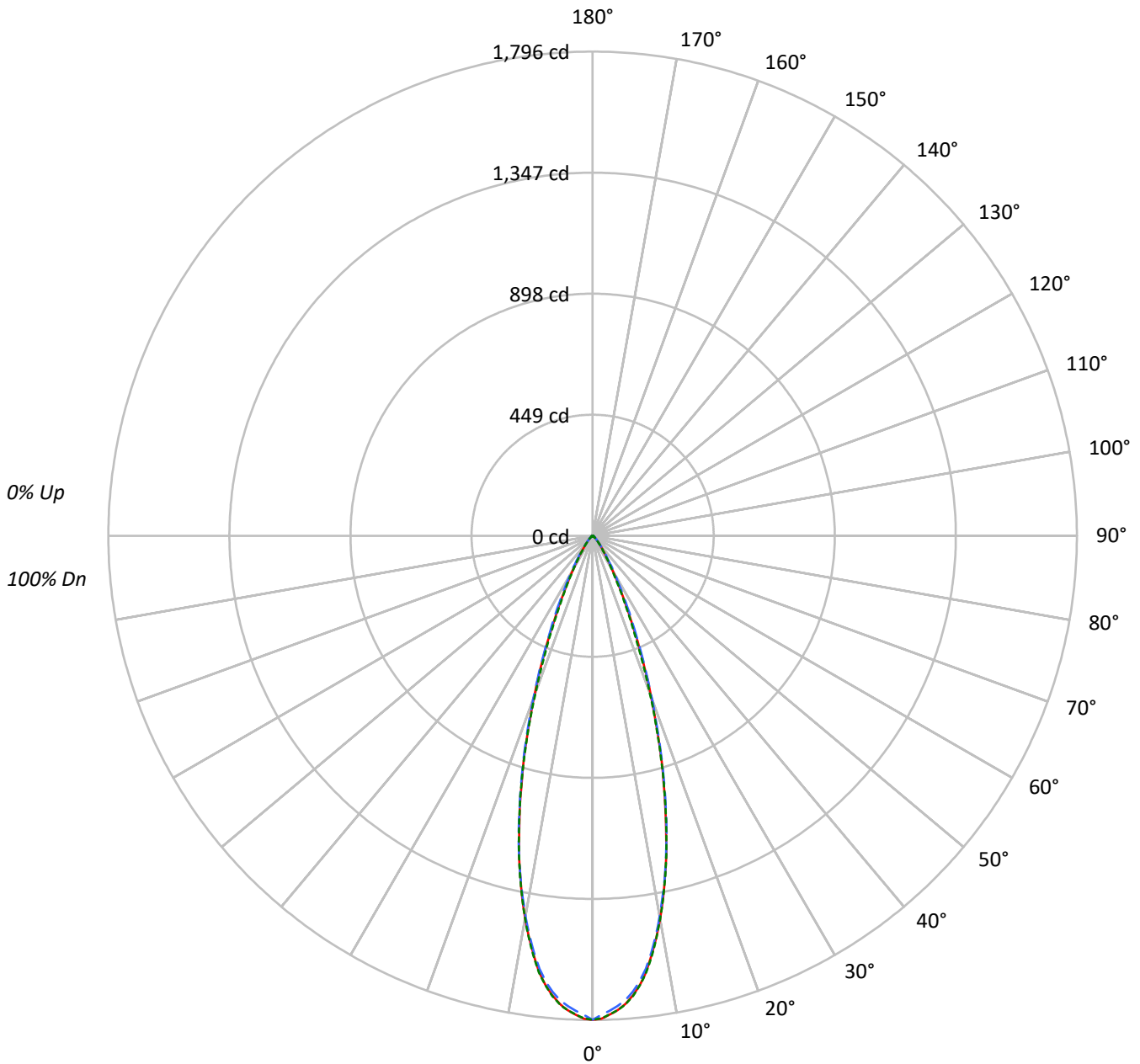
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	885831	885831	885831
5°	847713	841374	849050
10°	722252	717693	723004
15°	532320	535793	534057
20°	332288	338431	324990
25°	171638	184159	163037
30°	82320	94340	78446
35°	42461	47038	39751
40°	23829	25053	22606
45°	14443	14443	13954
50°	7522	9287	7522
55°	3871	6193	4215
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5481	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	23.0
10°-20°	283.7	42.2
20°-30°	153.8	22.9
30°-40°	49.4	7.3
40°-50°	16.8	2.5
50°-60°	5.9	0.9
60°-70°	4.3	0.6
70°-80°	3.1	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°	591.9	88.0
0°-40°	641.3	95.4
0°-60°	664.0	98.8
0°-90°	672.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	672.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1796	1796	1796	1796	1796	
5°	1712	1701	1699	1716	1714	155
15°	1042	1051	1049	1054	1046	283
25°	315	330	338	315	300	151
35°	70	74	78	71	66	48
45°	21	21	21	21	20	17
55°	4	6	7	6	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°	1795.5	1795.5	1795.5	1795.5	1795.5
1°	1792.4	1779.6	1777.7	1794.3	1790.6
2°	1778.1	1766.0	1764.2	1780.8	1777.4
3°	1762.3	1751.3	1747.6	1764.9	1762.6
4°	1741.1	1731.0	1727.6	1744.9	1743.0
5°	1711.7	1701.2	1698.9	1715.9	1714.4
6°	1675.5	1666.8	1662.7	1679.7	1676.6
7°	1630.3	1622.3	1617.8	1630.3	1631.8
8°	1571.4	1567.6	1562.4	1574.8	1574.8
9°	1508.8	1505.4	1499.7	1511.1	1511.1
10°	1441.7	1439.4	1432.6	1443.2	1443.2
11°	1368.1	1367.0	1362.1	1370.7	1370.7
12°	1290.8	1293.4	1288.9	1296.4	1293.8
13°	1213.4	1212.3	1212.7	1218.4	1214.2
14°	1125.9	1132.7	1133.9	1137.3	1130.8
15°	1042.2	1050.9	1049.0	1053.9	1045.6
16°	956.6	966.4	966.0	967.1	959.2
17°	876.6	882.3	882.6	881.5	871.7
18°	791.4	799.3	799.3	797.4	785.7
19°	708.0	714.0	718.2	714.0	700.5
20°	632.9	637.1	644.6	634.1	619.0
21°	560.9	564.7	571.1	558.6	542.0
22°	491.9	496.8	502.8	488.5	471.1
23°	427.4	438.7	440.9	421.3	406.6
24°	368.1	381.0	384.7	364.8	349.3
25°	315.3	329.7	338.3	315.0	299.5
26°	269.7	283.7	294.2	270.8	256.1
27°	229.7	244.4	255.4	233.5	219.5
28°	195.4	209.7	221.0	200.7	187.5
29°	169.7	178.0	189.4	172.4	160.3
30°	144.5	153.5	165.6	148.2	137.7
32.5°	99.2	104.1	113.5	103.0	94.7
35°	70.5	73.6	78.1	70.9	66.0
37.5°	50.2	51.7	54.3	50.2	47.5
40°	37.0	37.7	38.9	36.6	35.1
42.5°	27.5	27.9	27.9	27.2	26.4
45°	20.7	21.1	20.7	20.7	20.0
47.5°	15.1	16.2	15.8	15.8	14.7
50°	9.8	12.1	12.1	11.7	9.8
52.5°	6.0	8.3	9.4	8.3	6.4
55°	4.5	5.7	7.2	5.7	4.9
57.5°	4.5	4.5	5.3	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.8	4.1	4.1
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.8	0.8	0.8	0.8	0.8
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°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)