

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: P282575

Luminaire Tested: **LDA2B15D2WD010 EU2B15SP15D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B15D2WD010 EU2B15SP15D2W 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1077.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

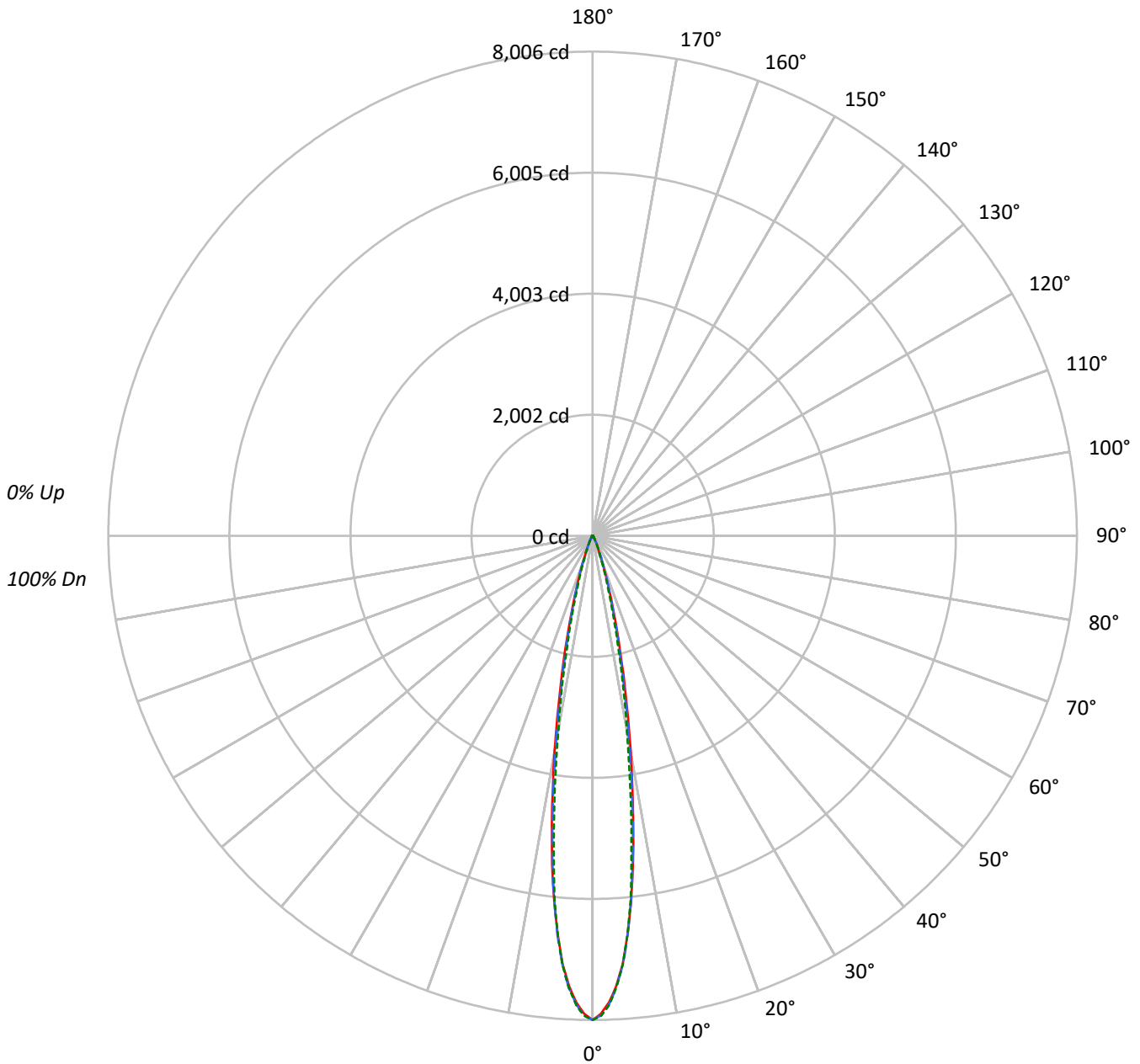
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	98	96																
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94	96	94	92																
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91	96	94	92																
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	94	92	90																
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87	92	89	88																
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	90	88	86																
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	88	86	84																
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	87	84	82																
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	85	82	81																
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	84	81	79	78	84	81	79																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3950101	3950101	3950101
5°	3276996	3287643	3275163
10°	1813722	1748194	1628512
15°	734226	702201	623492
20°	245974	260832	211165
25°	93576	93903	88895
30°	41986	41302	39878
35°	20357	18129	14395
40°	13460	17003	11850
45°	3419	5582	5163
50°	921	1382	1919
55°	8429	7397	11612
60°	12137	9670	15788
65°	5720	15059	14359
70°	5337	4472	5337
75°	2287	5909	16393
80°	27843	38356	34946
85°	0	17548	20945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.4	48.7
10°-20°	397.2	36.9
20°-30°	90.3	8.4
30°-40°	26.7	2.5
40°-50°	8.9	0.8
50°-60°	7.8	0.7
60°-70°	9.4	0.9
70°-80°	6.0	0.6
80°-90°	6.3	0.6
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°	1011.9	94.0
0°-40°	1038.6	96.4
0°-60°	1055.3	98.0
0°-90°	1077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8006	8006	8006	8006	8006	
5°	6617	6669	6638	6552	6613	531
15°	1438	1457	1375	1246	1221	418
25°	172	185	172	171	163	90
35°	34	38	30	35	24	27
45°	5	14	8	14	7	7
55°	10	14	9	13	14	4
65°	5	10	13	12	12	5
75°	1	4	3	6	9	3
85°	0	0	3	3	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8006.5	8006.5	8006.5	8006.5	8006.5
1°	7903.3	7935.2	7932.2	7919.3	7942.0
2°	7721.5	7760.2	7756.5	7728.3	7768.8
3°	7455.0	7489.4	7483.9	7443.4	7487.6
4°	7098.9	7138.2	7122.8	7062.1	7118.6
5°	6616.9	6669.1	6638.4	6551.8	6613.2
6°	6082.7	6126.9	6078.4	5963.5	6023.7
7°	5484.6	5512.2	5448.4	5301.0	5260.5
8°	4831.9	4868.1	4779.1	4607.1	4562.9
9°	4208.0	4220.3	4112.2	3929.2	3873.4
10°	3620.4	3611.2	3489.6	3304.1	3250.7
11°	3063.4	3051.2	2922.8	2751.5	2768.7
12°	2556.9	2580.8	2431.6	2276.2	2279.3
13°	2140.5	2143.0	2014.7	1866.7	1858.1
14°	1752.5	1775.2	1665.3	1532.6	1508.1
15°	1437.5	1457.1	1374.8	1245.9	1220.7
16°	1150.7	1175.3	1116.3	999.7	966.5
17°	926.6	957.9	919.2	821.6	783.5
18°	741.1	765.1	755.9	655.2	623.9
19°	585.2	618.3	620.8	536.7	499.2
20°	468.5	498.6	496.8	431.7	402.2
22.5°	268.9	284.9	285.5	254.8	237.6
25°	171.9	184.8	172.5	170.7	163.3
26°	149.2	159.7	146.1	146.1	139.4
27°	121.0	130.2	117.3	122.8	113.6
28°	101.9	111.8	100.7	99.5	98.2
29°	84.7	93.9	79.8	86.0	82.3
30°	73.7	80.4	72.5	81.7	70.0
32.5°	57.1	62.6	48.5	61.4	46.1
35°	33.8	37.5	30.1	35.0	23.9
37.5°	35.0	36.2	32.5	36.2	33.8
40°	20.9	21.5	26.4	26.4	18.4
42.5°	19.6	19.0	11.7	18.4	14.7
45°	4.9	14.1	8.0	14.1	7.4
47.5°	3.7	4.9	4.9	9.8	9.8
50°	1.2	4.9	1.8	3.7	2.5
52.5°	0.0	11.7	2.5	8.6	7.4
55°	9.8	14.1	8.6	12.9	13.5
57.5°	1.2	9.8	4.9	10.4	7.4
60°	12.3	16.6	9.8	17.8	16.0
62.5°	1.2	11.1	12.9	9.8	8.6
65°	4.9	10.4	12.9	12.3	12.3
67.5°	6.1	10.4	8.0	8.0	11.1



TEST NUMBER: P282575

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	1.2	4.3	3.1	5.5	8.6
77.5°	1.2	4.9	4.3	9.8	7.4
80°	9.8	11.1	13.5	17.8	12.3
82.5°	8.6	8.6	13.5	9.8	7.4
85°	0.0	0.0	3.1	3.1	3.7
87.5°	0.0	2.5	6.1	4.9	8.6
90°	0.0	0.0	0.0	0.0	0.0



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







70°	3.7	1.2	3.1	3.1	3.7
72.5°	1.2	5.5	4.9	3.1	6.1



(END OF REPORT)