

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: P282363

Luminaire Tested: **LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 977.1 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

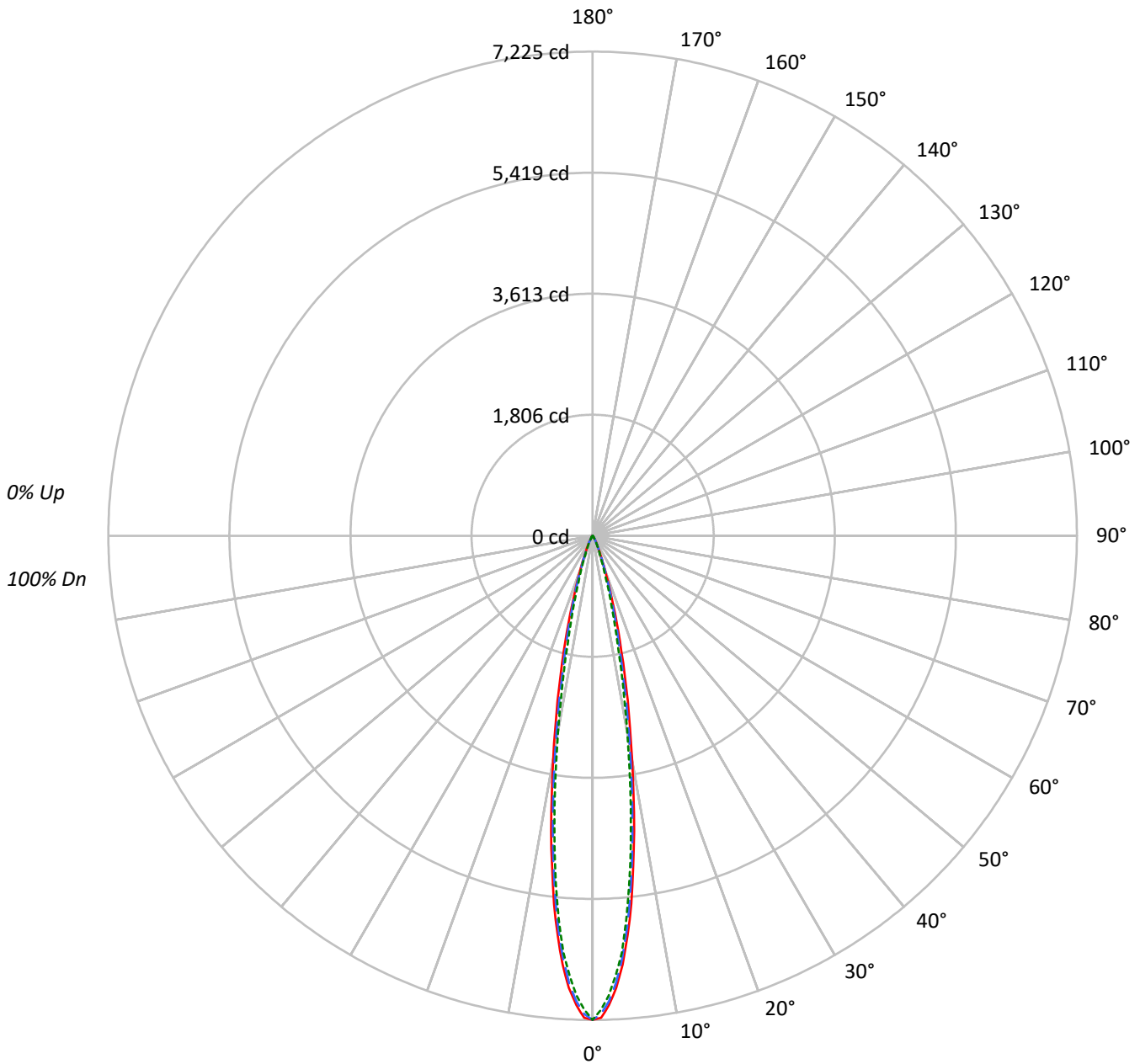
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282363

CATALOG NUMBER: LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282363

CATALOG NUMBER: LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MB

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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3564490	3564490	3564490
5°	2966030	2911652	2852867
10°	1698899	1594245	1487889
15°	755627	671095	562404
20°	274115	257735	204182
25°	105280	98258	84649
30°	45404	42214	37485
35°	21502	21502	17767
40°	10755	11142	8952
45°	6210	5861	5442
50°	4298	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282363

CATALOG NUMBER: LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.9	48.1
10°-20°	380.3	38.9
20°-30°	91.7	9.4
30°-40°	23.4	2.4
40°-50°	7.0	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	0.1
80°-90°	0.0	0.0
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°	941.9	96.4
0°-40°	965.3	98.8
0°-60°	975.2	99.8
0°-90°	977.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7225	7225	7225	7225	7225	
5°	5989	5934	5879	5828	5760	484
15°	1479	1444	1314	1184	1101	422
25°	193	194	180	164	156	100
35°	36	36	36	32	30	25
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282363

CATALOG NUMBER: LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7224.9	7224.9	7224.9	7224.9	7224.9
1°	7192.6	7142.4	7136.3	7167.5	7075.6
2°	7008.7	6973.0	6952.4	6970.8	6866.6
3°	6756.3	6721.7	6684.4	6684.9	6568.5
4°	6412.5	6385.2	6322.2	6303.2	6235.8
5°	5989.0	5933.8	5879.2	5827.9	5760.5
6°	5520.9	5449.6	5371.6	5295.2	5226.1
7°	4970.4	4923.0	4819.9	4715.7	4657.2
8°	4452.7	4376.4	4256.0	4125.6	4076.0
9°	3896.1	3841.5	3703.3	3551.7	3502.1
10°	3391.2	3334.4	3182.3	3013.4	2970.0
11°	2917.6	2864.1	2705.9	2528.7	2482.4
12°	2517.0	2441.2	2259.5	2105.7	2060.6
13°	2118.0	2066.2	1894.0	1741.9	1654.4
14°	1778.6	1735.7	1579.7	1446.0	1353.5
15°	1479.4	1444.3	1313.9	1183.5	1101.1
16°	1213.6	1191.9	1088.8	962.9	895.4
17°	984.6	964.5	898.8	782.9	726.1
18°	795.1	792.4	737.8	637.5	586.8
19°	654.2	653.1	602.9	518.8	477.0
20°	522.1	529.4	490.9	417.4	388.9
21°	425.7	429.6	399.0	343.2	317.6
22°	346.6	349.4	329.3	283.6	269.7
23°	284.2	285.9	269.1	235.1	222.9
24°	234.0	235.1	220.1	196.1	185.6
25°	193.4	194.5	180.5	163.8	155.5
26°	160.5	161.6	149.3	137.6	129.3
27°	133.2	135.4	123.1	115.9	107.0
28°	113.7	114.2	103.1	98.6	90.3
29°	93.1	96.4	86.9	83.0	76.9
30°	79.7	81.4	74.1	71.3	65.8
32.5°	52.9	54.1	50.7	48.5	44.0
35°	35.7	36.2	35.7	32.3	29.5
37.5°	24.5	24.5	25.1	21.2	20.1
40°	16.7	16.7	17.3	14.5	13.9
42.5°	12.3	12.3	11.7	10.0	10.0
45°	8.9	8.9	8.4	7.8	7.8
47.5°	7.2	6.7	6.1	6.1	6.1
50°	5.6	5.6	5.0	4.5	5.0
52.5°	4.5	4.5	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



TEST NUMBER: P282363

CATALOG NUMBER: LDA2B15D2WD010 EU2B15NFL25D2W 2LBAPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)