

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: P283710

Luminaire Tested: **LDA2B15D2WD010 EU2B15FL40D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283710
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: LDA2B15D2WD010 EU2B15FL40D2W 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 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: 861.6 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

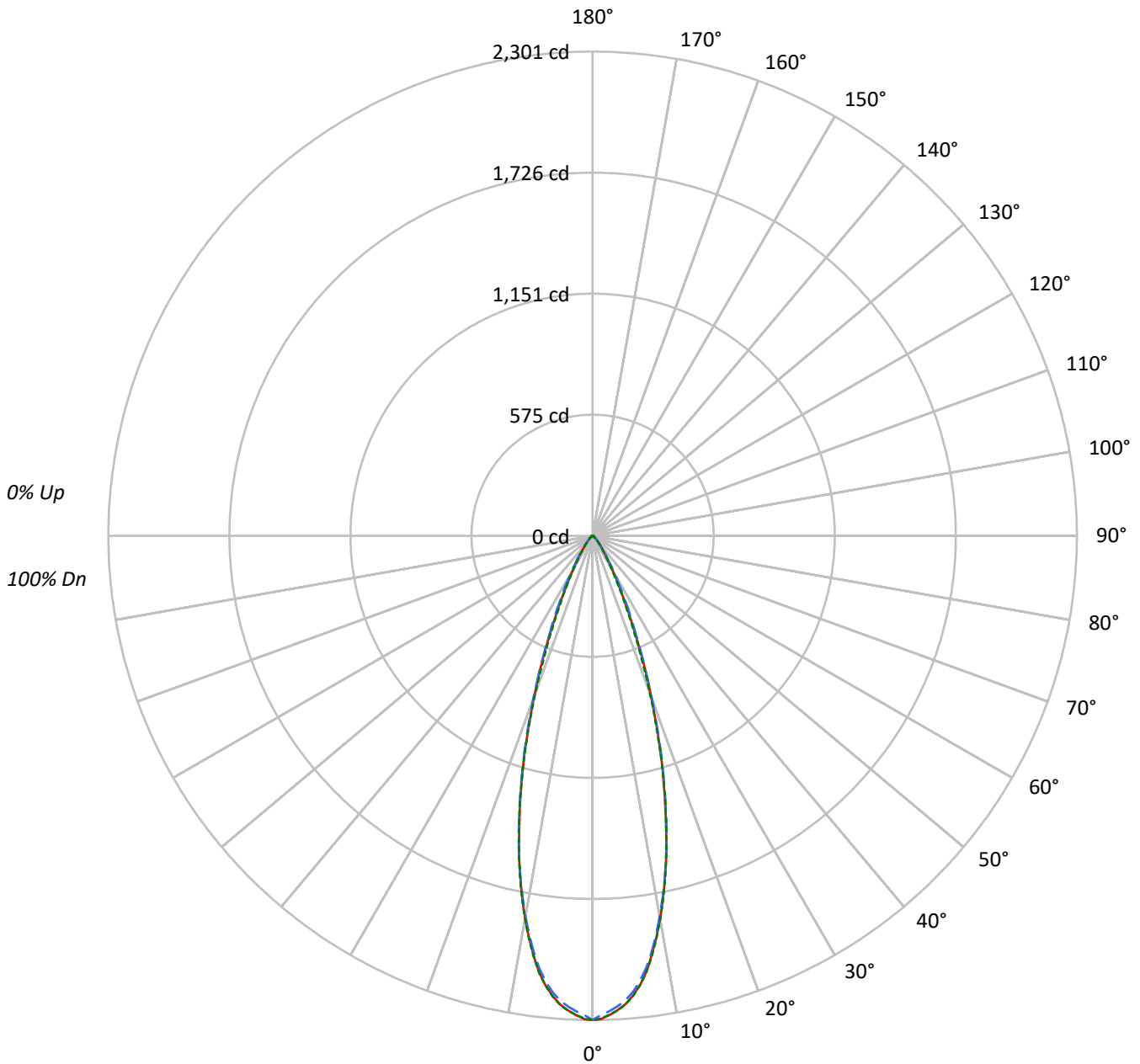
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
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°	1135225	1135225	1135225
5°	1086422	1078250	1088056
10°	925547	919736	926549
15°	682179	686622	684426
20°	425847	433723	416502
25°	219978	236036	208927
30°	105449	120887	100492
35°	54446	60289	50953
40°	30527	32073	28982
45°	18559	18559	17862
50°	9671	11897	9671
55°	4989	7913	5419
60°	5723	5723	5723
65°	6187	6187	6187
70°	7645	6924	7645
75°	7434	7434	7434
80°	6819	6819	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	23.0
10°-20°	363.5	42.2
20°-30°	197.1	22.9
30°-40°	63.3	7.3
40°-50°	21.6	2.5
50°-60°	7.6	0.9
60°-70°	5.5	0.6
70°-80°	4.0	0.5
80°-90°	1.2	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°	758.6	88.0
0°-40°	821.8	95.4
0°-60°	851.0	98.8
0°-90°	861.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2194	2180	2177	2199	2197	198
15°	1336	1347	1344	1351	1340	362
25°	404	422	434	404	384	194
35°	90	94	100	91	85	61
45°	27	27	27	27	26	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
75°	4	4	4	4	4	4
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°	2301.0	2301.0	2301.0	2301.0	2301.0
1°	2297.1	2280.7	2278.3	2299.5	2294.7
2°	2278.7	2263.3	2260.9	2282.1	2277.8
3°	2258.4	2244.4	2239.6	2261.8	2258.9
4°	2231.4	2218.3	2214.0	2236.2	2233.8
5°	2193.7	2180.1	2177.2	2199.0	2197.0
6°	2147.3	2136.1	2130.8	2152.6	2148.7
7°	2089.2	2079.1	2073.3	2089.2	2091.2
8°	2013.8	2009.0	2002.2	2018.2	2018.2
9°	1933.6	1929.2	1922.0	1936.5	1936.5
10°	1847.5	1844.6	1835.9	1849.5	1849.5
11°	1753.3	1751.8	1745.5	1756.7	1756.7
12°	1654.2	1657.6	1651.8	1661.4	1658.1
13°	1555.1	1553.6	1554.1	1561.4	1556.1
14°	1442.9	1451.6	1453.1	1457.4	1449.2
15°	1335.6	1346.7	1344.3	1350.6	1340.0
16°	1225.9	1238.5	1238.0	1239.4	1229.3
17°	1123.4	1130.7	1131.2	1129.7	1117.1
18°	1014.2	1024.3	1024.3	1021.9	1006.9
19°	907.3	915.1	920.4	915.1	897.7
20°	811.1	816.5	826.1	812.6	793.3
21°	718.8	723.6	731.9	715.9	694.6
22°	630.4	636.6	644.4	626.0	603.8
23°	547.7	562.2	565.1	540.0	521.1
24°	471.8	488.2	493.1	467.4	447.6
25°	404.1	422.5	433.6	403.6	383.8
26°	345.6	363.5	377.1	347.1	328.2
27°	294.4	313.2	327.3	299.2	281.3
28°	250.4	268.8	283.3	257.2	240.2
29°	217.5	228.2	242.7	220.9	205.4
30°	185.1	196.7	212.2	190.0	176.4
32.5°	127.1	133.4	145.5	132.0	121.3
35°	90.4	94.3	100.1	90.9	84.6
37.5°	64.3	66.2	69.6	64.3	60.9
40°	47.4	48.3	49.8	46.9	45.0
42.5°	35.3	35.8	35.8	34.8	33.8
45°	26.6	27.1	26.6	26.6	25.6
47.5°	19.3	20.8	20.3	20.3	18.9
50°	12.6	15.5	15.5	15.0	12.6
52.5°	7.7	10.6	12.1	10.6	8.2
55°	5.8	7.3	9.2	7.3	6.3
57.5°	5.8	5.8	6.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	4.8	5.3	5.3
72.5°	4.8	4.8	4.4	4.8	4.4
75°	3.9	3.9	3.9	3.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.5	1.5	1.5	1.9	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.3	5.8	5.3	5.8	5.3



(END OF REPORT)