

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: P283790

Luminaire Tested: **LDA2B20D2WD010 EU2B20FL40D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283790
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: LDA2B20D2WD010 EU2B20FL40D2W 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1318.6 lumens
Efficiency: N/A
Efficacy: 64.0 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

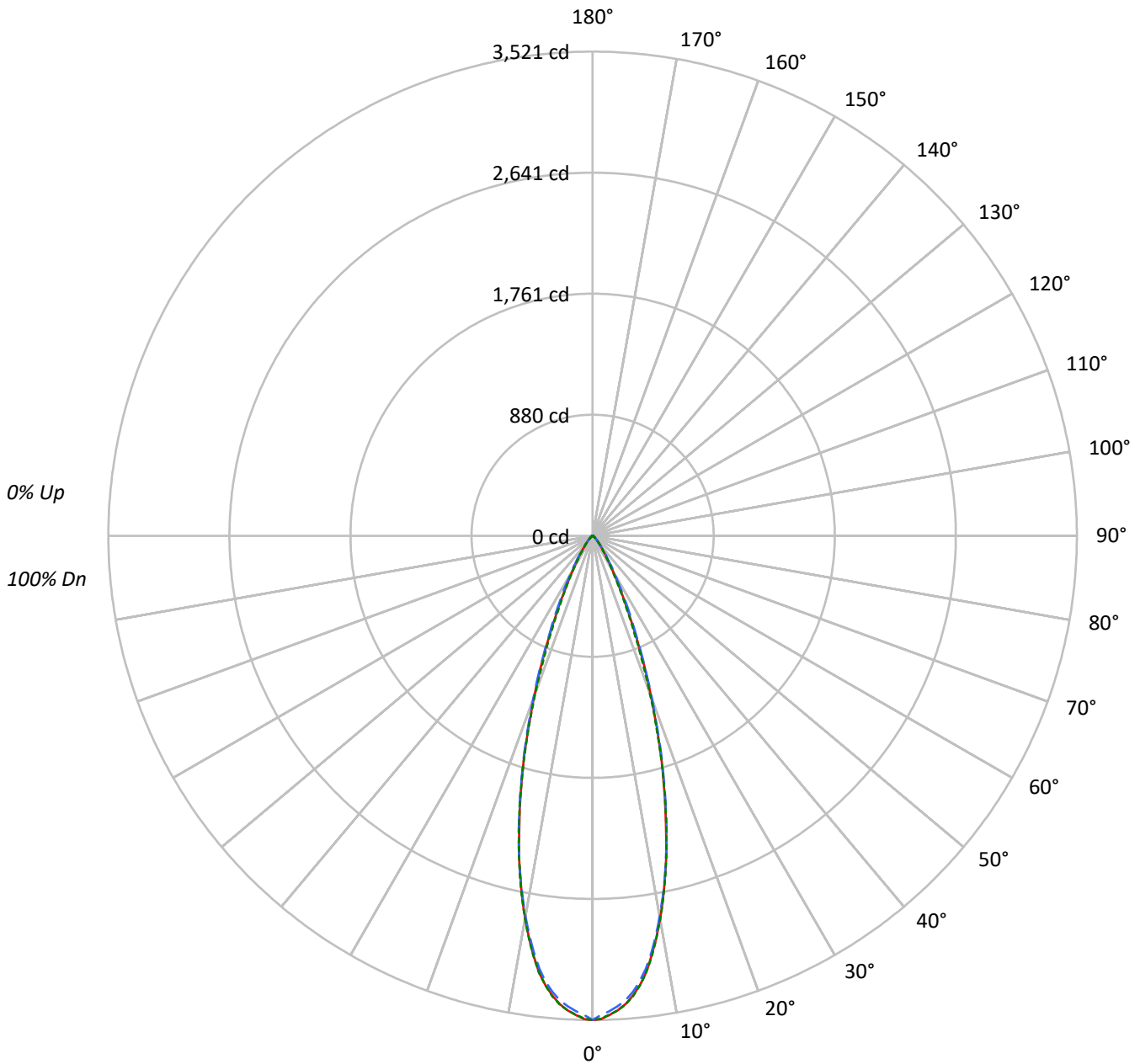
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1737275	1737275	1737275
5°	1662542	1650111	1665117
10°	1416450	1407533	1417903
15°	1044005	1050798	1047376
20°	651713	663789	637327
25°	336635	361240	319760
30°	161392	185034	153815
35°	83296	92210	77996
40°	46693	49076	44310
45°	28397	28397	27351
50°	14737	18191	14737
55°	7655	12128	8257
60°	8782	8782	8782
65°	9456	9456	9456
70°	11684	10674	11684
75°	11247	11247	11247
80°	10512	10512	10512
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	23.0
10°-20°	556.3	42.2
20°-30°	301.6	22.9
30°-40°	96.8	7.3
40°-50°	33.0	2.5
50°-60°	11.6	0.9
60°-70°	8.4	0.6
70°-80°	6.1	0.5
80°-90°	1.8	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°	1160.8	88.0
0°-40°	1257.7	95.4
0°-60°	1302.3	98.8
0°-90°	1318.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3521	3521	3521	3521	3521	
5°	3357	3336	3332	3365	3362	304
15°	2044	2061	2057	2067	2051	554
25°	618	647	664	618	587	296
35°	138	144	153	139	130	93
45°	41	41	41	41	39	32
55°	9	11	14	11	10	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3521.3	3521.3	3521.3	3521.3	3521.3
1°	3515.3	3490.2	3486.5	3519.0	3511.6
2°	3487.2	3463.6	3459.9	3492.4	3485.8
3°	3456.2	3434.7	3427.3	3461.3	3456.9
4°	3414.7	3394.8	3388.1	3422.1	3418.4
5°	3357.0	3336.3	3331.9	3365.2	3362.2
6°	3286.0	3269.0	3260.9	3294.2	3288.2
7°	3197.2	3181.7	3172.8	3197.2	3200.2
8°	3081.8	3074.4	3064.1	3088.5	3088.5
9°	2959.0	2952.4	2941.3	2963.5	2963.5
10°	2827.4	2822.9	2809.6	2830.3	2830.3
11°	2683.1	2680.9	2671.3	2688.3	2688.3
12°	2531.5	2536.6	2527.8	2542.6	2537.4
13°	2379.8	2377.6	2378.3	2389.4	2381.3
14°	2208.2	2221.5	2223.7	2230.4	2217.8
15°	2044.0	2061.0	2057.3	2066.9	2050.6
16°	1876.0	1895.3	1894.5	1896.7	1881.2
17°	1719.2	1730.3	1731.0	1728.8	1709.6
18°	1552.0	1567.6	1567.6	1563.9	1540.9
19°	1388.5	1400.4	1408.5	1400.4	1373.7
20°	1241.3	1249.5	1264.3	1243.5	1213.9
21°	1100.0	1107.4	1120.0	1095.6	1063.0
22°	964.6	974.3	986.1	958.0	924.0
23°	838.1	860.3	864.8	826.3	797.5
24°	722.0	747.2	754.6	715.3	685.0
25°	618.4	646.6	663.6	617.7	587.4
26°	528.9	556.3	577.0	531.1	502.3
27°	450.5	479.4	500.8	457.9	430.5
28°	383.2	411.3	433.5	393.6	367.7
29°	332.9	349.2	371.4	338.1	314.4
30°	283.3	301.1	324.8	290.7	270.0
32.5°	194.6	204.2	222.7	202.0	185.7
35°	138.3	144.3	153.1	139.1	129.5
37.5°	98.4	101.3	106.5	98.4	93.2
40°	72.5	74.0	76.2	71.8	68.8
42.5°	54.0	54.7	54.7	53.3	51.8
45°	40.7	41.4	40.7	40.7	39.2
47.5°	29.6	31.8	31.1	31.1	28.9
50°	19.2	23.7	23.7	22.9	19.2
52.5°	11.8	16.3	18.5	16.3	12.6
55°	8.9	11.1	14.1	11.1	9.6
57.5°	8.9	8.9	10.4	8.9	8.9
60°	8.9	8.9	8.9	8.9	8.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.1	8.1	8.1	8.1	8.1
70°	8.1	8.1	7.4	8.1	8.1
72.5°	7.4	7.4	6.7	7.4	6.7
75°	5.9	5.9	5.9	5.9	5.9
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.7	3.7	3.7	3.7	3.7
82.5°	2.2	2.2	2.2	3.0	2.2
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.9	8.9	8.9	8.9	8.9
65°	8.1	8.9	8.1	8.9	8.1



(END OF REPORT)