

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: P283795

Luminaire Tested: **LDA2B20D2WD010 EU2B20FL40D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283795
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1217.2 lumens
Efficiency: N/A
Efficacy: 59.1 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

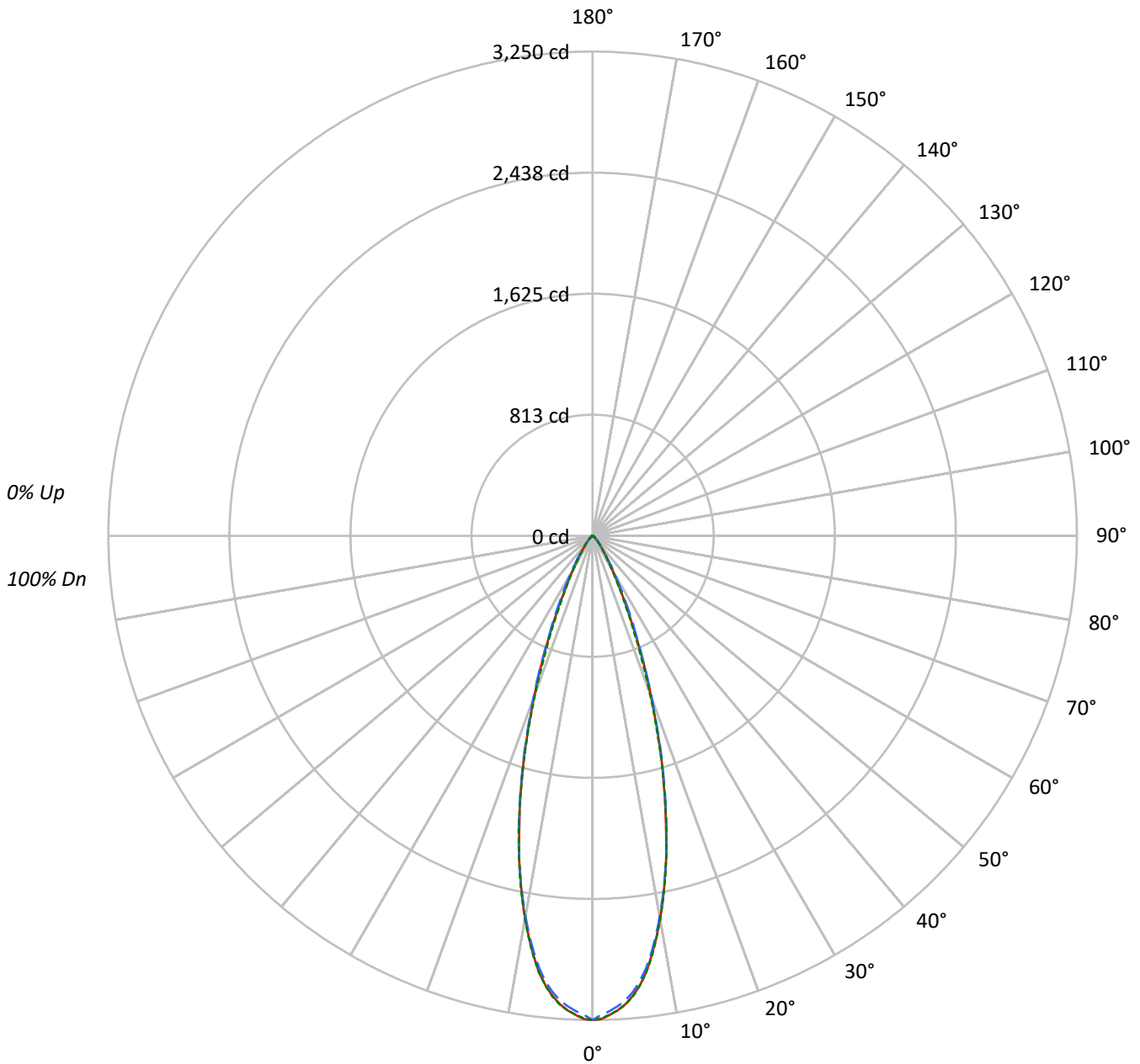
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1603672	1603672	1603672
5°	1534719	1523229	1537096
10°	1307539	1299323	1308891
15°	963713	969995	966879
20°	601626	612756	588343
25°	310778	333478	295154
30°	148973	170792	142023
35°	76912	85163	71973
40°	43086	45276	40896
45°	26234	26234	25257
50°	13662	16809	13662
55°	7053	11182	7655
60°	8091	8091	8091
65°	8755	8755	8755
70°	10819	9809	10819
75°	10484	10484	10484
80°	9660	9660	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	23.0
10°-20°	513.6	42.2
20°-30°	278.4	22.9
30°-40°	89.4	7.3
40°-50°	30.5	2.5
50°-60°	10.7	0.9
60°-70°	7.8	0.6
70°-80°	5.7	0.5
80°-90°	1.6	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°	1071.6	88.0
0°-40°	1161.0	95.4
0°-60°	1202.1	98.8
0°-90°	1217.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3250	3250	3250	3250	3250	
5°	3099	3080	3076	3106	3104	280
15°	1887	1902	1899	1908	1893	512
25°	571	597	613	570	542	274
35°	128	133	141	128	120	86
45°	38	38	38	38	36	30
55°	8	10	13	10	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3250.5	3250.5	3250.5	3250.5	3250.5
1°	3245.1	3221.9	3218.5	3248.5	3241.7
2°	3219.1	3197.3	3193.9	3223.9	3217.8
3°	3190.5	3170.7	3163.8	3195.2	3191.1
4°	3152.2	3133.8	3127.6	3159.0	3155.6
5°	3098.9	3079.8	3075.7	3106.5	3103.7
6°	3033.4	3017.7	3010.2	3040.9	3035.4
7°	2951.4	2937.1	2928.9	2951.4	2954.2
8°	2844.9	2838.1	2828.5	2851.1	2851.1
9°	2731.6	2725.4	2715.2	2735.7	2735.7
10°	2610.0	2605.9	2593.6	2612.7	2612.7
11°	2476.8	2474.8	2465.9	2481.6	2481.6
12°	2336.8	2341.6	2333.4	2347.1	2342.3
13°	2196.9	2194.8	2195.5	2205.7	2198.2
14°	2038.4	2050.7	2052.8	2058.9	2047.3
15°	1886.8	1902.5	1899.1	1908.0	1893.0
16°	1731.8	1749.6	1748.9	1750.9	1736.6
17°	1587.0	1597.3	1598.0	1595.9	1578.2
18°	1432.7	1447.0	1447.0	1443.6	1422.5
19°	1281.8	1292.7	1300.2	1292.7	1268.1
20°	1145.9	1153.4	1167.1	1147.9	1120.6
21°	1015.5	1022.3	1033.9	1011.4	981.3
22°	890.5	899.4	910.3	884.3	852.9
23°	773.7	794.2	798.3	762.8	736.2
24°	666.5	689.7	696.5	660.4	632.4
25°	570.9	596.8	612.6	570.2	542.2
26°	488.3	513.5	532.7	490.3	463.7
27°	415.9	442.5	462.3	422.7	397.4
28°	353.7	379.7	400.2	363.3	339.4
29°	307.3	322.3	342.8	312.1	290.2
30°	261.5	277.9	299.8	268.4	249.3
32.5°	179.6	188.5	205.5	186.4	171.4
35°	127.7	133.2	141.4	128.4	119.5
37.5°	90.8	93.6	98.3	90.8	86.0
40°	66.9	68.3	70.3	66.2	63.5
42.5°	49.9	50.5	50.5	49.2	47.8
45°	37.6	38.2	37.6	37.6	36.2
47.5°	27.3	29.4	28.7	28.7	26.6
50°	17.8	21.9	21.9	21.2	17.8
52.5°	10.9	15.0	17.1	15.0	11.6
55°	8.2	10.2	13.0	10.2	8.9
57.5°	8.2	8.2	9.6	8.2	8.2
60°	8.2	8.2	8.2	8.2	8.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.5	7.5	7.5	7.5	7.5
70°	7.5	7.5	6.8	7.5	7.5
72.5°	6.8	6.8	6.1	6.8	6.1
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.0	2.0	2.0	2.7	2.0
85°	1.4	1.4	1.4	1.4	1.4
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°	8.2	8.2	8.2	8.2	8.2
65°	7.5	8.2	7.5	8.2	7.5



(END OF REPORT)