

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: P283791

Luminaire Tested: **LDA2B20D2WD010 EU2B20FL40D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283791
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1276.4 lumens
Efficiency: N/A
Efficacy: 62.0 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

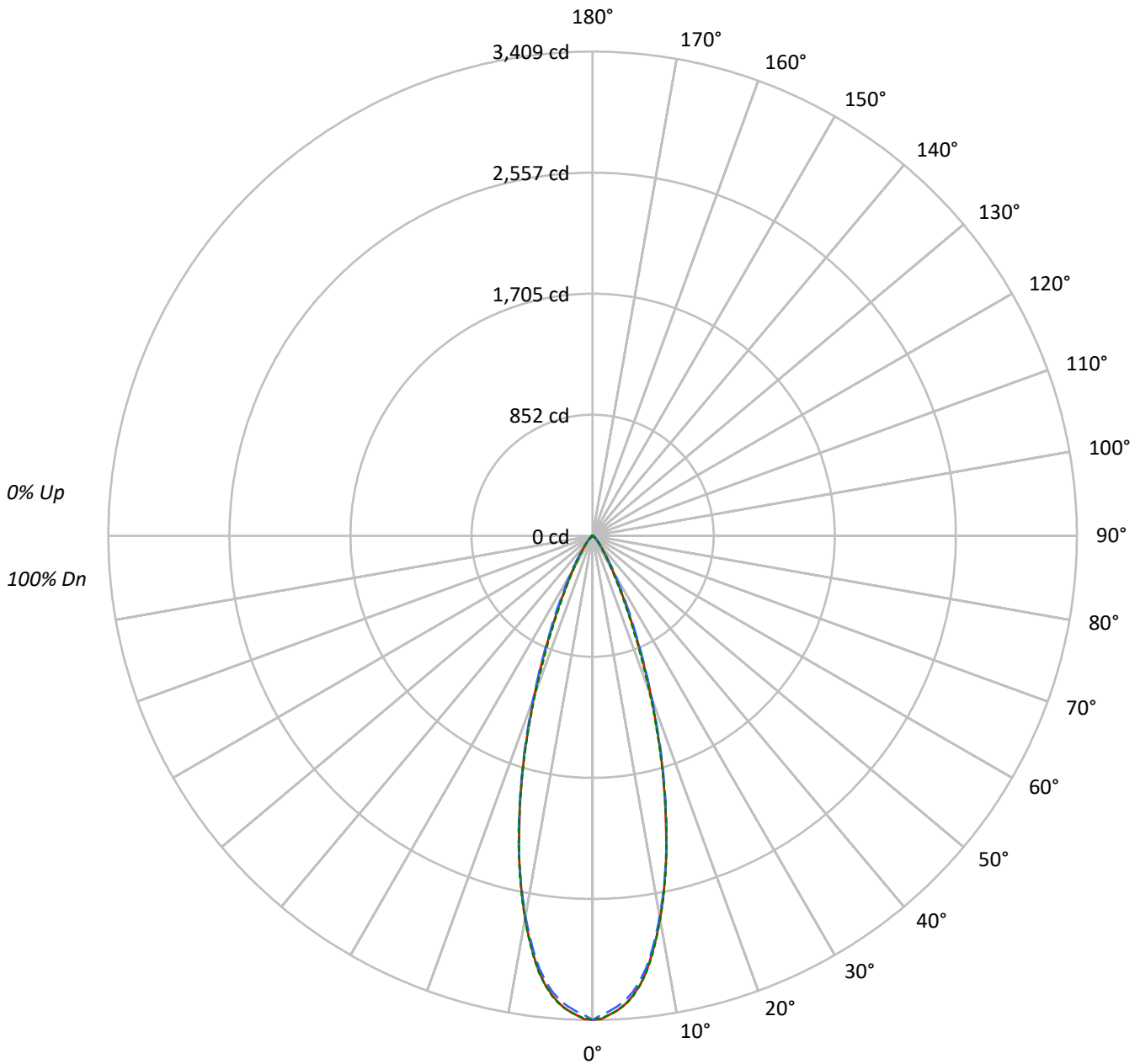
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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	100	99	98	97	95	95	93	92	90																
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	93	92	90	88	86	86	83	82	79																
	2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	88	86	84	82	80	79	76	75	72																
	3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86	86	83	82	80	79	76	75	72	72	69																
	4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82	80	79	76	75	72	72	69	67	67	64																
	5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79	76	75	72	72	69	67	64	64	61	58																
	6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75	72	72	69	67	64	61	58	55	52	49																
	7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	69	67	64	61	58	55	52	49	46	43																
	8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	66	64	61	58	55	52	49	46	43	40																
	9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67	64	61	58	55	52	49	46	43	40	37																
	10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64	61	58	55	52	49	46	43	40	37	34																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1681673	1681673	1681673
5°	1609402	1597318	1611878
10°	1371112	1362495	1372565
15°	1010601	1017190	1013870
20°	630870	642525	616956
25°	325911	349645	309526
30°	156265	179109	148916
35°	80646	89258	75466
40°	45211	47530	42893
45°	27490	27490	26513
50°	14276	17577	14276
55°	7397	11698	7999
60°	8486	8486	8486
65°	9222	9222	9222
70°	11396	10386	11396
75°	10865	10865	10865
80°	10228	10228	10228
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	23.0
10°-20°	538.5	42.2
20°-30°	292.0	22.9
30°-40°	93.7	7.3
40°-50°	32.0	2.5
50°-60°	11.2	0.9
60°-70°	8.2	0.6
70°-80°	5.9	0.5
80°-90°	1.7	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°	1123.7	88.0
0°-40°	1217.4	95.4
0°-60°	1260.6	98.8
0°-90°	1276.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3409	3409	3409	3409	3409	
5°	3250	3230	3225	3258	3255	294
15°	1979	1995	1992	2001	1985	536
25°	599	626	642	598	569	287
35°	134	140	148	135	125	90
45°	39	40	39	39	38	31
55°	9	11	14	11	9	9
65°	8	9	8	9	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°	3408.6	3408.6	3408.6	3408.6	3408.6
1°	3402.9	3378.6	3375.0	3406.5	3399.3
2°	3375.7	3352.8	3349.2	3380.7	3374.3
3°	3345.6	3324.8	3317.7	3350.6	3346.3
4°	3305.5	3286.2	3279.7	3312.7	3309.1
5°	3249.7	3229.6	3225.3	3257.5	3254.7
6°	3180.9	3164.4	3156.6	3188.8	3183.1
7°	3095.0	3079.9	3071.3	3095.0	3097.8
8°	2983.3	2976.1	2966.1	2989.7	2989.7
9°	2864.4	2857.9	2847.2	2868.7	2868.7
10°	2736.9	2732.6	2719.7	2739.8	2739.8
11°	2597.3	2595.1	2585.8	2602.3	2602.3
12°	2450.5	2455.5	2446.9	2461.2	2456.2
13°	2303.7	2301.5	2302.3	2313.0	2305.1
14°	2137.6	2150.4	2152.6	2159.0	2146.9
15°	1978.6	1995.1	1991.5	2000.8	1985.0
16°	1816.0	1834.6	1833.9	1836.1	1821.0
17°	1664.2	1675.0	1675.7	1673.5	1654.9
18°	1502.4	1517.4	1517.4	1513.8	1491.6
19°	1344.1	1355.6	1363.5	1355.6	1329.8
20°	1201.6	1209.5	1223.8	1203.8	1175.1
21°	1064.8	1072.0	1084.2	1060.5	1029.0
22°	933.8	943.1	954.6	927.3	894.4
23°	811.3	832.8	837.1	799.9	772.0
24°	698.9	723.3	730.4	692.5	663.1
25°	598.7	625.9	642.3	597.9	568.6
26°	512.0	538.5	558.6	514.2	486.2
27°	436.1	464.0	484.8	443.3	416.8
28°	370.9	398.2	419.6	381.0	355.9
29°	322.2	338.0	359.5	327.3	304.3
30°	274.3	291.5	314.4	281.4	261.4
32.5°	188.3	197.6	215.5	195.5	179.7
35°	133.9	139.6	148.2	134.6	125.3
37.5°	95.2	98.1	103.1	95.2	90.2
40°	70.2	71.6	73.8	69.5	66.6
42.5°	52.3	53.0	53.0	51.6	50.1
45°	39.4	40.1	39.4	39.4	38.0
47.5°	28.6	30.8	30.1	30.1	27.9
50°	18.6	22.9	22.9	22.2	18.6
52.5°	11.5	15.8	17.9	15.8	12.2
55°	8.6	10.7	13.6	10.7	9.3
57.5°	8.6	8.6	10.0	8.6	8.6
60°	8.6	8.6	8.6	8.6	8.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.9	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.2	7.9	7.9
72.5°	7.2	7.2	6.4	7.2	6.4
75°	5.7	5.7	5.7	5.7	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	3.6	3.6	3.6
82.5°	2.1	2.1	2.1	2.9	2.1
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°	8.6	8.6	8.6	8.6	8.6
65°	7.9	8.6	7.9	8.6	7.9



(END OF REPORT)