

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: P283721

Luminaire Tested: **LDA2B208030D010 EU2B20FL408030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283721
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: LDA2B208030D010 EU2B20FL408030 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1663.6 lumens
Efficiency: N/A
Efficacy: 80.8 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

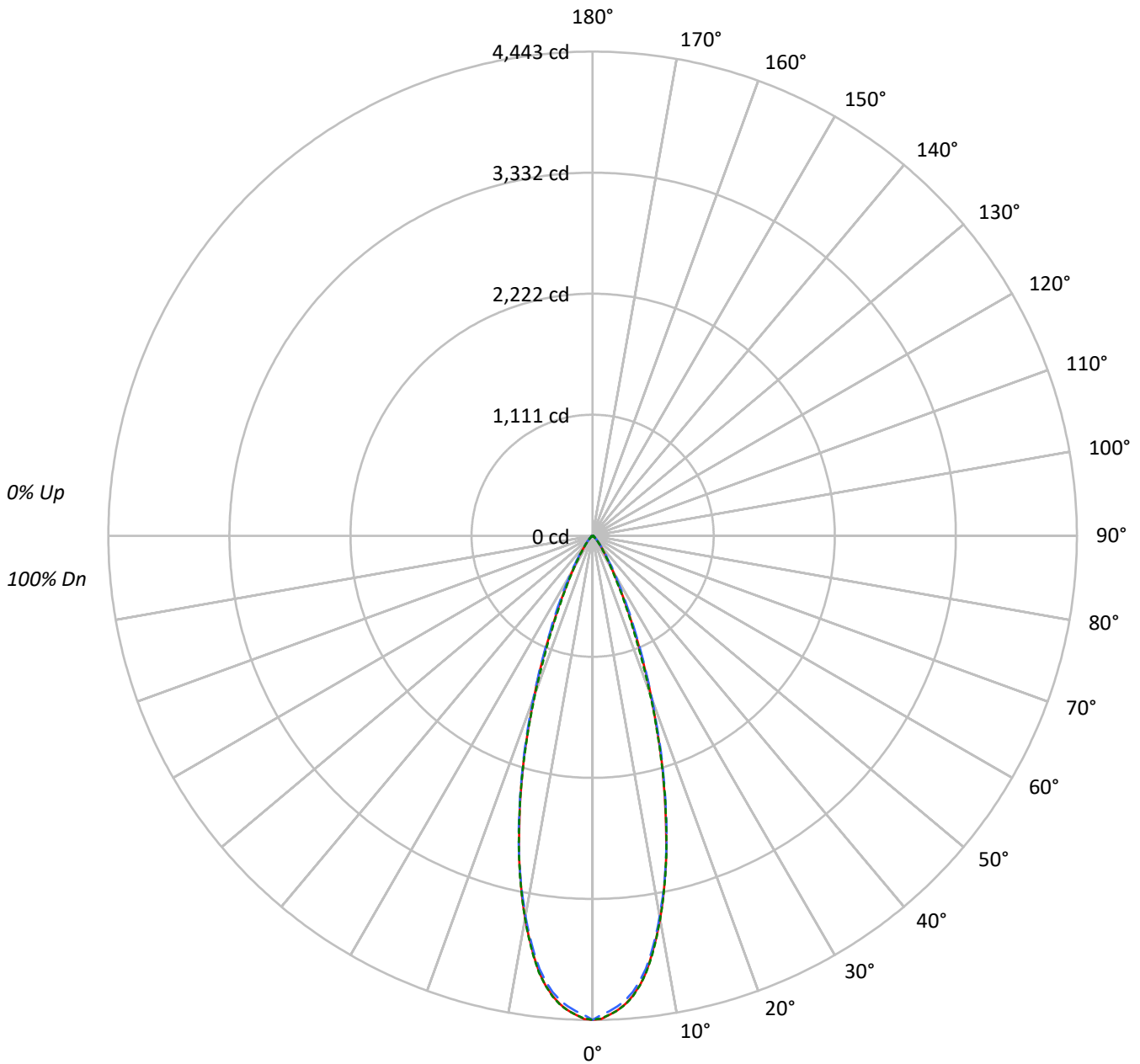
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2191809	2191809	2191809
5°	2097566	2081818	2100785
10°	1787020	1775798	1788923
15°	1317112	1325692	1321402
20°	822241	837414	804128
25°	424768	455742	403429
30°	203662	233400	194092
35°	105098	116361	98353
40°	58929	61892	55903
45°	35793	35793	34537
50°	18651	22949	18651
55°	9634	15225	10408
60°	11051	11051	11051
65°	12024	12024	12024
70°	14858	13415	14858
75°	14297	14297	14297
80°	13353	13353	13353
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.1	23.0
10°-20°	701.9	42.2
20°-30°	380.5	22.9
30°-40°	122.2	7.3
40°-50°	41.6	2.5
50°-60°	14.6	0.9
60°-70°	10.6	0.6
70°-80°	7.8	0.5
80°-90°	2.2	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°	1464.6	88.0
0°-40°	1586.7	95.4
0°-60°	1642.9	98.8
0°-90°	1663.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4443	4443	4443	4443	4443	
5°	4235	4209	4204	4246	4242	383
15°	2579	2600	2596	2608	2587	699
25°	780	816	837	779	741	374
35°	174	182	193	176	163	118
45°	51	52	51	51	50	41
55°	11	14	18	14	12	12
65°	10	11	10	11	10	11
75°	8	8	8	8	8	8
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°	4442.6	4442.6	4442.6	4442.6	4442.6
1°	4435.1	4403.4	4398.7	4439.8	4430.4
2°	4399.6	4369.8	4365.1	4406.2	4397.8
3°	4360.4	4333.4	4324.0	4367.0	4361.4
4°	4308.2	4283.0	4274.6	4317.5	4312.8
5°	4235.4	4209.2	4203.6	4245.6	4241.9
6°	4145.8	4124.3	4114.1	4156.0	4148.6
7°	4033.8	4014.2	4003.0	4033.8	4037.5
8°	3888.2	3878.9	3865.8	3896.6	3896.6
9°	3733.3	3724.9	3710.9	3738.9	3738.9
10°	3567.1	3561.5	3544.7	3570.9	3570.9
11°	3385.1	3382.3	3370.2	3391.7	3391.7
12°	3193.8	3200.3	3189.1	3207.8	3201.3
13°	3002.5	2999.7	3000.6	3014.6	3004.3
14°	2785.9	2802.7	2805.5	2813.9	2798.1
15°	2578.7	2600.2	2595.5	2607.7	2587.1
16°	2366.9	2391.2	2390.2	2393.0	2373.4
17°	2169.0	2183.0	2184.0	2181.2	2156.9
18°	1958.1	1977.7	1977.7	1973.0	1944.1
19°	1751.8	1766.8	1777.0	1766.8	1733.2
20°	1566.1	1576.4	1595.0	1568.9	1531.6
21°	1387.8	1397.2	1413.0	1382.2	1341.2
22°	1217.0	1229.2	1244.1	1208.6	1165.7
23°	1057.4	1085.4	1091.0	1042.5	1006.1
24°	910.9	942.6	952.0	902.5	864.2
25°	780.3	815.7	837.2	779.3	741.1
26°	667.3	701.9	728.0	670.1	633.7
27°	568.4	604.8	631.9	577.7	543.2
28°	483.5	518.9	546.9	496.5	463.9
29°	420.0	440.5	468.5	426.5	396.7
30°	357.5	379.9	409.7	366.8	340.7
32.5°	245.5	257.6	280.9	254.8	234.3
35°	174.5	182.0	193.2	175.5	163.3
37.5°	124.1	127.9	134.4	124.1	117.6
40°	91.5	93.3	96.1	90.5	86.8
42.5°	68.1	69.1	69.1	67.2	65.3
45°	51.3	52.3	51.3	51.3	49.5
47.5°	37.3	40.1	39.2	39.2	36.4
50°	24.3	29.9	29.9	28.9	24.3
52.5°	14.9	20.5	23.3	20.5	15.9
55°	11.2	14.0	17.7	14.0	12.1
57.5°	11.2	11.2	13.1	11.2	11.2
60°	11.2	11.2	11.2	11.2	11.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.3	10.3	10.3	10.3	10.3
70°	10.3	10.3	9.3	10.3	10.3
72.5°	9.3	9.3	8.4	9.3	8.4
75°	7.5	7.5	7.5	7.5	7.5
77.5°	5.6	5.6	5.6	5.6	5.6
80°	4.7	4.7	4.7	4.7	4.7
82.5°	2.8	2.8	2.8	3.7	2.8
85°	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	11.2	11.2	11.2	11.2	11.2
65°	10.3	11.2	10.3	11.2	10.3



(END OF REPORT)