

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: P283741

Luminaire Tested: **LDA2B208050D010 EU2B20FL408050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283741
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: LDA2B208050D010 EU2B20FL408050 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: 1701.2 lumens
Efficiency: N/A
Efficacy: 82.6 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

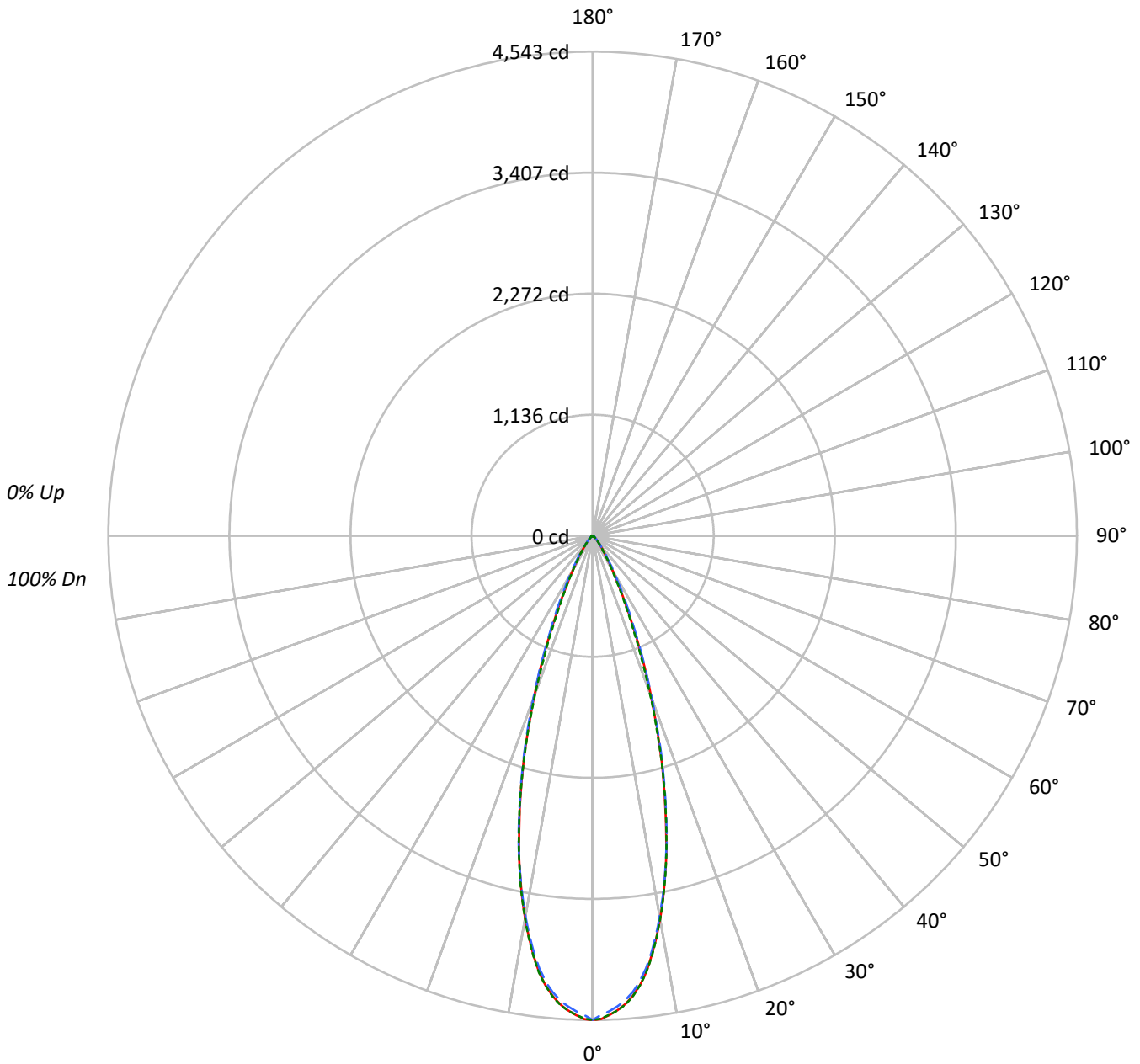
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2241293	2241293	2241293
5°	2144961	2128866	2148230
10°	1827398	1815926	1829302
15°	1346889	1355674	1351282
20°	840827	856368	822294
25°	434348	466030	412519
30°	208220	238698	198478
35°	107508	119011	100581
40°	60218	63309	57191
45°	36630	36630	35305
50°	19035	23410	19035
55°	9892	15569	10666
60°	11347	11347	11347
65°	12258	12258	12258
70°	15146	13704	15146
75°	14487	14487	14487
80°	13638	13638	13638
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	23.0
10°-20°	717.8	42.2
20°-30°	389.1	22.9
30°-40°	124.9	7.3
40°-50°	42.6	2.5
50°-60°	14.9	0.9
60°-70°	10.9	0.6
70°-80°	7.9	0.5
80°-90°	2.3	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°	1497.7	88.0
0°-40°	1622.6	95.4
0°-60°	1680.1	98.8
0°-90°	1701.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4543	4543	4543	4543	4543	
5°	4331	4304	4299	4342	4338	392
15°	2637	2659	2654	2667	2646	715
25°	798	834	856	797	758	382
35°	178	186	198	179	167	120
45°	52	53	52	52	51	42
55°	12	14	18	14	12	13
65°	10	12	10	12	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°	4542.9	4542.9	4542.9	4542.9	4542.9
1°	4535.3	4502.8	4498.1	4540.1	4530.5
2°	4499.0	4468.5	4463.7	4505.7	4497.1
3°	4458.9	4431.3	4421.7	4465.6	4459.9
4°	4405.5	4379.7	4371.1	4415.0	4410.3
5°	4331.1	4304.3	4298.6	4341.6	4337.7
6°	4239.4	4217.5	4207.0	4249.9	4242.3
7°	4124.9	4104.9	4093.4	4124.9	4128.7
8°	3976.0	3966.5	3953.1	3984.6	3984.6
9°	3817.6	3809.0	3794.7	3823.3	3823.3
10°	3647.7	3642.0	3624.8	3651.5	3651.5
11°	3461.6	3458.7	3446.3	3468.3	3468.3
12°	3265.9	3272.6	3261.2	3280.3	3273.6
13°	3070.3	3067.4	3068.4	3082.7	3072.2
14°	2848.9	2866.1	2868.9	2877.5	2861.3
15°	2637.0	2659.0	2654.2	2666.6	2645.6
16°	2420.4	2445.2	2444.2	2447.1	2427.0
17°	2218.0	2232.3	2233.3	2230.4	2205.6
18°	2002.3	2022.4	2022.4	2017.6	1988.0
19°	1791.4	1806.7	1817.2	1806.7	1772.3
20°	1601.5	1612.0	1631.1	1604.3	1566.2
21°	1419.2	1428.7	1445.0	1413.5	1371.5
22°	1244.5	1256.9	1272.2	1235.9	1192.0
23°	1081.3	1110.0	1115.7	1066.1	1028.8
24°	931.5	963.9	973.5	922.9	883.8
25°	797.9	834.1	856.1	796.9	757.8
26°	682.4	717.7	744.4	685.3	648.0
27°	581.2	618.4	646.1	590.8	555.5
28°	494.4	530.6	559.3	507.7	474.3
29°	429.5	450.5	479.1	436.2	405.6
30°	365.5	388.4	419.0	375.1	348.4
32.5°	251.0	263.4	287.3	260.6	239.6
35°	178.5	186.1	197.6	179.4	167.0
37.5°	126.9	130.8	137.4	126.9	120.3
40°	93.5	95.4	98.3	92.6	88.8
42.5°	69.7	70.6	70.6	68.7	66.8
45°	52.5	53.4	52.5	52.5	50.6
47.5°	38.2	41.0	40.1	40.1	37.2
50°	24.8	30.5	30.5	29.6	24.8
52.5°	15.3	21.0	23.9	21.0	16.2
55°	11.5	14.3	18.1	14.3	12.4
57.5°	11.5	11.5	13.4	11.5	11.5
60°	11.5	11.5	11.5	11.5	11.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.5	10.5	10.5	10.5	10.5
70°	10.5	10.5	9.5	10.5	10.5
72.5°	9.5	9.5	8.6	9.5	8.6
75°	7.6	7.6	7.6	7.6	7.6
77.5°	5.7	5.7	5.7	5.7	5.7
80°	4.8	4.8	4.8	4.8	4.8
82.5°	2.9	2.9	2.9	3.8	2.9
85°	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	11.5	11.5	11.5	11.5	11.5
65°	10.5	11.5	10.5	11.5	10.5



(END OF REPORT)