

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: P283739

Luminaire Tested: **LDA2B208050D010 EU2B20FL408050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283739
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 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: 1739.4 lumens
Efficiency: N/A
Efficacy: 84.4 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

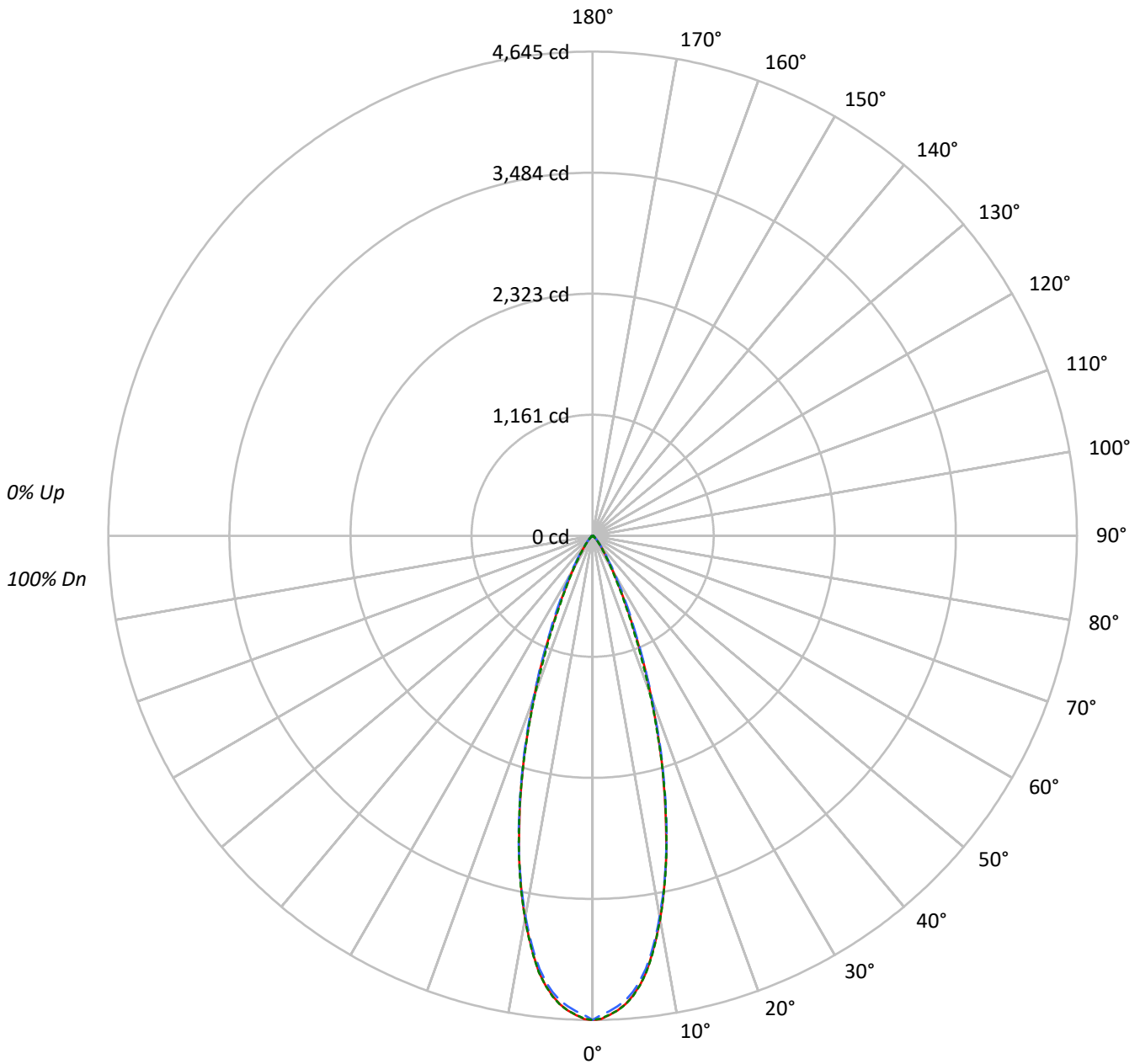
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2291715	2291715	2291715
5°	2193198	2176756	2196566
10°	1868528	1856755	1870482
15°	1377178	1386167	1381672
20°	859728	875636	840774
25°	444093	476482	421774
30°	212948	244053	202922
35°	109917	121661	102870
40°	61570	64726	58479
45°	37468	37468	36072
50°	19495	23947	19495
55°	10064	15913	10924
60°	11545	11545	11545
65°	12491	12491	12491
70°	15435	14136	15435
75°	14868	14868	14868
80°	13922	13922	13922
85°	11321	11321	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	23.0
10°-20°	733.9	42.2
20°-30°	397.9	22.9
30°-40°	127.7	7.3
40°-50°	43.5	2.5
50°-60°	15.2	0.9
60°-70°	11.1	0.6
70°-80°	8.1	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°	1531.3	88.0
0°-40°	1659.1	95.4
0°-60°	1717.9	98.8
0°-90°	1739.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4645	4645	4645	4645	4645	
5°	4428	4401	4395	4439	4435	400
15°	2696	2719	2714	2727	2705	731
25°	816	853	875	815	775	391
35°	182	190	202	184	171	123
45°	54	55	54	54	52	43
55°	12	15	18	15	13	13
65°	11	12	11	12	11	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°	4645.1	4645.1	4645.1	4645.1	4645.1
1°	4637.3	4604.1	4599.2	4642.2	4632.4
2°	4600.2	4569.0	4564.1	4607.1	4598.3
3°	4559.2	4530.9	4521.2	4566.1	4560.2
4°	4504.6	4478.2	4469.5	4514.3	4509.5
5°	4428.5	4401.1	4395.3	4439.2	4435.3
6°	4334.8	4312.3	4301.6	4345.5	4337.7
7°	4217.7	4197.2	4185.5	4217.7	4221.6
8°	4065.4	4055.7	4042.0	4074.2	4074.2
9°	3903.5	3894.7	3880.0	3909.3	3909.3
10°	3729.8	3723.9	3706.3	3733.7	3733.7
11°	3539.5	3536.5	3523.8	3546.3	3546.3
12°	3339.4	3346.2	3334.5	3354.0	3347.2
13°	3139.4	3136.4	3137.4	3152.0	3141.3
14°	2913.0	2930.5	2933.4	2942.2	2925.6
15°	2696.3	2718.8	2713.9	2726.6	2705.1
16°	2474.8	2500.2	2499.2	2502.1	2481.6
17°	2267.9	2282.5	2283.5	2280.6	2255.2
18°	2047.4	2067.9	2067.9	2063.0	2032.7
19°	1831.7	1847.3	1858.0	1847.3	1812.2
20°	1637.5	1648.2	1667.8	1640.4	1601.4
21°	1451.1	1460.9	1477.5	1445.3	1402.3
22°	1272.5	1285.2	1300.8	1263.7	1218.9
23°	1105.7	1134.9	1140.8	1090.0	1052.0
24°	952.4	985.6	995.4	943.7	903.6
25°	815.8	852.9	875.3	814.8	774.8
26°	697.7	733.8	761.2	700.7	662.6
27°	594.3	632.4	660.7	604.1	568.0
28°	505.5	542.6	571.9	519.2	485.0
29°	439.1	460.6	489.9	446.0	414.7
30°	373.8	397.2	428.4	383.5	356.2
32.5°	256.7	269.3	293.7	266.4	244.9
35°	182.5	190.3	202.0	183.5	170.8
37.5°	129.8	133.7	140.5	129.8	123.0
40°	95.6	97.6	100.5	94.7	90.8
42.5°	71.2	72.2	72.2	70.3	68.3
45°	53.7	54.6	53.7	53.7	51.7
47.5°	39.0	42.0	41.0	41.0	38.1
50°	25.4	31.2	31.2	30.3	25.4
52.5°	15.6	21.5	24.4	21.5	16.6
55°	11.7	14.6	18.5	14.6	12.7
57.5°	11.7	11.7	13.7	11.7	11.7
60°	11.7	11.7	11.7	11.7	11.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.7	10.7	10.7	10.7	10.7
70°	10.7	10.7	9.8	10.7	10.7
72.5°	9.8	9.8	8.8	9.8	8.8
75°	7.8	7.8	7.8	7.8	7.8
77.5°	5.9	5.9	5.9	5.9	5.9
80°	4.9	4.9	4.9	4.9	4.9
82.5°	2.9	2.9	2.9	3.9	2.9
85°	2.0	2.0	2.0	2.0	2.0
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°	11.7	11.7	11.7	11.7	11.7
65°	10.7	11.7	10.7	11.7	10.7



(END OF REPORT)