

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: P283723

Luminaire Tested: **LDA2B208030D010 EU2B20FL408030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283723
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 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: 1626.9 lumens
Efficiency: N/A
Efficacy: 79.0 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

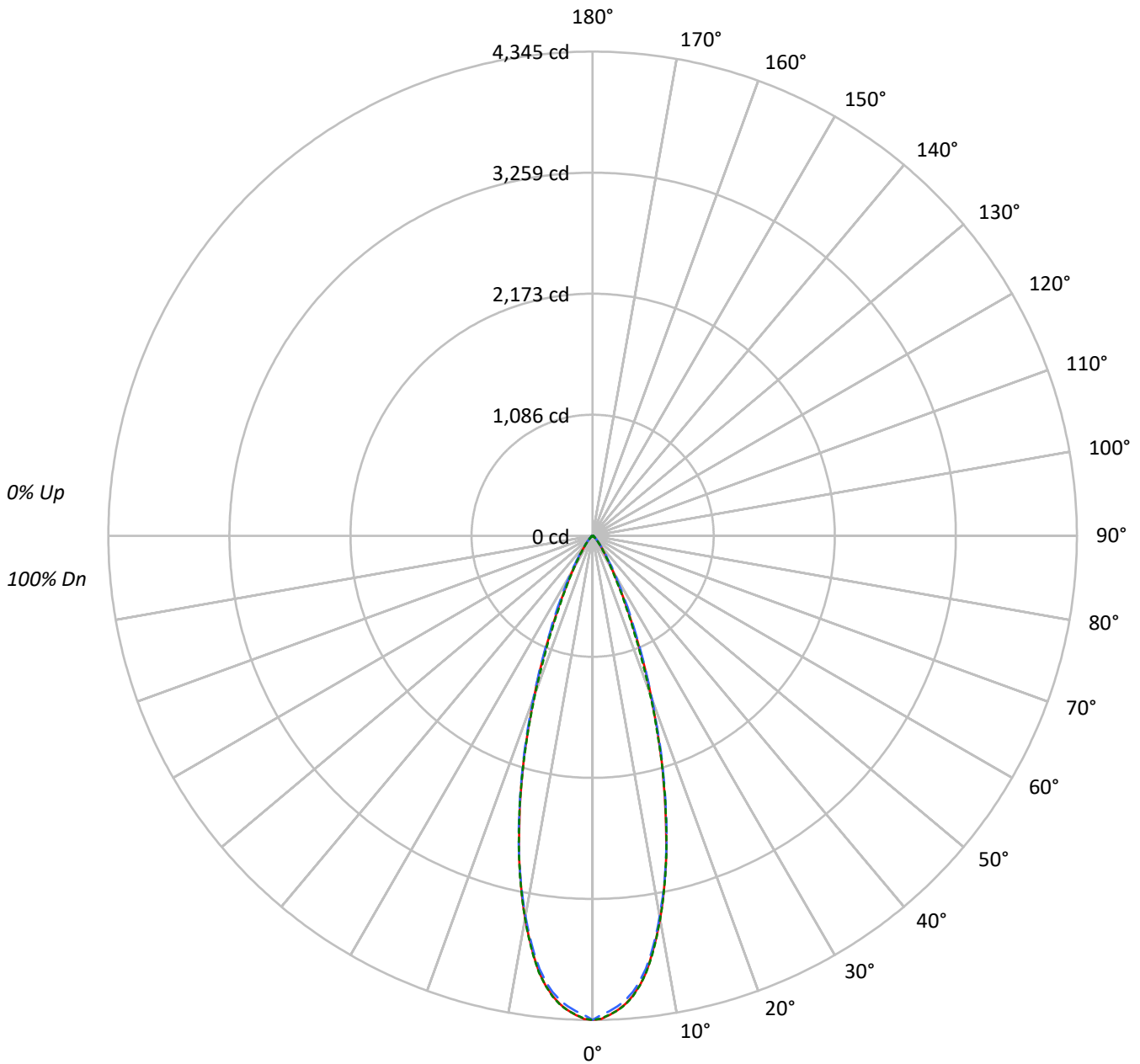
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	2143608	2143608	2143608
5°	2051409	2036057	2054579
10°	1747743	1736772	1749547
15°	1288151	1296579	1292339
20°	804180	818986	786434
25°	415405	445726	394555
30°	199162	228273	189819
35°	102810	113771	96185
40°	57641	60540	54679
45°	35025	35025	33770
50°	18191	22412	18191
55°	9462	14881	10236
60°	10854	10854	10854
65°	11674	11674	11674
70°	14425	13127	14425
75°	13915	13915	13915
80°	13069	13069	13069
85°	10189	10189	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.7	23.0
10°-20°	686.5	42.2
20°-30°	372.2	22.9
30°-40°	119.5	7.3
40°-50°	40.7	2.5
50°-60°	14.3	0.9
60°-70°	10.4	0.6
70°-80°	7.6	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°	1432.4	88.0
0°-40°	1551.8	95.4
0°-60°	1606.8	98.8
0°-90°	1626.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1626.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4345	4345	4345	4345	4345	
5°	4142	4117	4111	4152	4149	375
15°	2522	2543	2538	2550	2530	684
25°	763	798	819	762	725	366
35°	171	178	189	172	160	115
45°	50	51	50	50	48	40
55°	11	14	17	14	12	12
65°	10	11	10	11	10	10
75°	7	7	7	7	7	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°	4344.9	4344.9	4344.9	4344.9	4344.9
1°	4337.5	4306.5	4301.9	4342.1	4333.0
2°	4302.9	4273.7	4269.1	4309.3	4301.0
3°	4264.5	4238.1	4228.9	4270.9	4265.4
4°	4213.4	4188.8	4180.5	4222.5	4218.0
5°	4142.2	4116.7	4111.2	4152.3	4148.6
6°	4054.6	4033.6	4023.6	4064.6	4057.3
7°	3945.1	3925.9	3914.9	3945.1	3948.7
8°	3802.7	3793.5	3780.8	3810.9	3810.9
9°	3651.1	3642.9	3629.2	3656.6	3656.6
10°	3488.7	3483.2	3466.8	3492.3	3492.3
11°	3310.7	3307.9	3296.1	3317.1	3317.1
12°	3123.5	3129.9	3119.0	3137.2	3130.8
13°	2936.4	2933.7	2934.6	2948.3	2938.3
14°	2724.7	2741.1	2743.8	2752.0	2736.5
15°	2522.0	2543.0	2538.5	2550.3	2530.2
16°	2314.8	2338.6	2337.6	2340.4	2321.2
17°	2121.3	2135.0	2135.9	2133.2	2109.4
18°	1915.0	1934.2	1934.2	1929.6	1901.3
19°	1713.3	1727.9	1737.9	1727.9	1695.0
20°	1531.7	1541.7	1559.9	1534.4	1497.9
21°	1357.3	1366.4	1382.0	1351.8	1311.7
22°	1190.3	1202.1	1216.7	1182.1	1140.1
23°	1034.2	1061.6	1067.0	1019.6	984.0
24°	890.9	921.9	931.0	882.7	845.2
25°	763.1	797.8	818.8	762.2	724.8
26°	652.6	686.4	712.0	655.4	619.8
27°	555.9	591.5	618.0	565.0	531.2
28°	472.8	507.5	534.9	485.6	453.7
29°	410.8	430.8	458.2	417.1	387.9
30°	349.6	371.5	400.7	358.7	333.2
32.5°	240.1	251.9	274.7	249.2	229.1
35°	170.7	178.0	188.9	171.6	159.7
37.5°	121.4	125.1	131.4	121.4	115.0
40°	89.5	91.3	94.0	88.5	84.9
42.5°	66.6	67.5	67.5	65.7	63.9
45°	50.2	51.1	50.2	50.2	48.4
47.5°	36.5	39.2	38.3	38.3	35.6
50°	23.7	29.2	29.2	28.3	23.7
52.5°	14.6	20.1	22.8	20.1	15.5
55°	11.0	13.7	17.3	13.7	11.9
57.5°	11.0	11.0	12.8	11.0	11.0
60°	11.0	11.0	11.0	11.0	11.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.0	10.0	10.0	10.0	10.0
70°	10.0	10.0	9.1	10.0	10.0
72.5°	9.1	9.1	8.2	9.1	8.2
75°	7.3	7.3	7.3	7.3	7.3
77.5°	5.5	5.5	5.5	5.5	5.5
80°	4.6	4.6	4.6	4.6	4.6
82.5°	2.7	2.7	2.7	3.7	2.7
85°	1.8	1.8	1.8	1.8	1.8
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°	11.0	11.0	11.0	11.0	11.0
65°	10.0	11.0	10.0	11.0	10.0



(END OF REPORT)