

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: P282755

Luminaire Tested: **LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.5 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

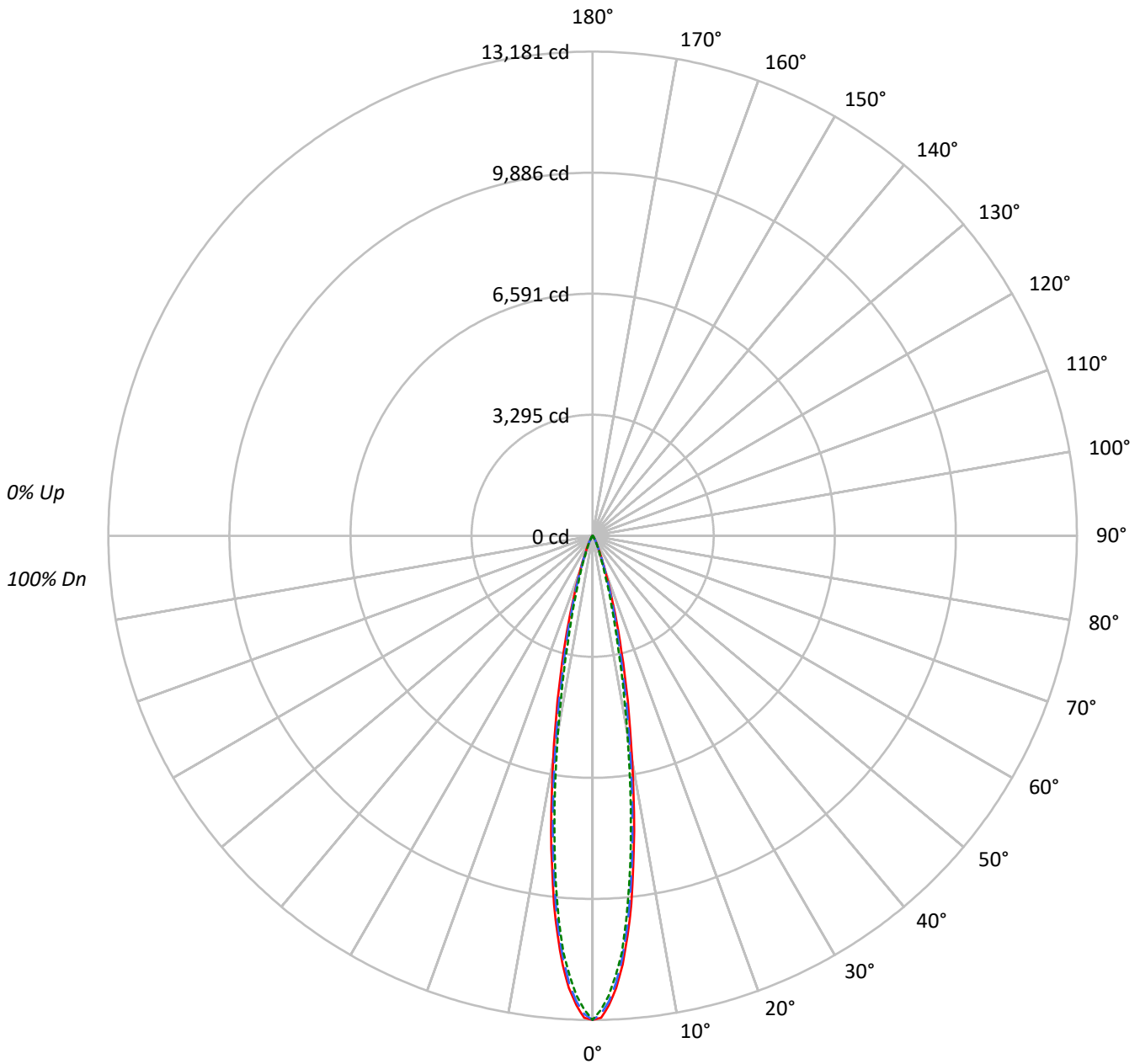
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6502804	6502804	6502804
5°	5411012	5311814	5204593
10°	3099368	2908397	2714370
15°	1378506	1224305	1025975
20°	500086	470212	372557
25°	191997	179314	154382
30°	82832	77021	68362
35°	39209	39209	32463
40°	19643	20287	16359
45°	11373	10605	9908
50°	7829	6985	6985
55°	6107	4387	5247
60°	5032	2960	4046
65°	3502	2335	3502
70°	2885	1442	2885
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.3	48.1
10°-20°	693.7	38.9
20°-30°	167.3	9.4
30°-40°	42.6	2.4
40°-50°	12.7	0.7
50°-60°	5.4	0.3
60°-70°	2.6	0.1
70°-80°	0.9	0.0
80°-90°	0.0	0.0
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°	1718.3	96.4
0°-40°	1760.9	98.8
0°-60°	1779.1	99.8
0°-90°	1782.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13181	13181	13181	13181	13181	
5°	10926	10825	10726	10632	10509	884
15°	2699	2635	2397	2159	2009	770
25°	353	355	329	299	284	182
35°	65	66	65	59	54	45
45°	16	16	15	14	14	14
55°	7	6	5	5	6	6
65°	3	3	2	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13180.6	13180.6	13180.6	13180.6	13180.6
1°	13121.6	13030.1	13018.9	13075.9	12908.1
2°	12786.1	12721.1	12683.5	12717.0	12526.9
3°	12325.6	12262.6	12194.5	12195.5	11983.1
4°	11698.4	11648.6	11533.8	11499.2	11376.2
5°	10925.9	10825.2	10725.6	10632.1	10509.1
6°	10072.0	9941.8	9799.5	9660.3	9534.2
7°	9067.6	8981.2	8793.1	8603.0	8496.3
8°	8123.2	7984.0	7764.4	7526.5	7436.0
9°	7107.7	7008.1	6756.0	6479.5	6389.0
10°	6186.7	6083.0	5805.5	5497.5	5418.2
11°	5322.6	5225.1	4936.4	4613.1	4528.7
12°	4591.7	4453.5	4122.1	3841.5	3759.2
13°	3863.9	3769.4	3455.2	3177.7	3018.1
14°	3244.8	3166.5	2881.9	2637.9	2469.2
15°	2698.9	2634.9	2397.0	2159.1	2008.7
16°	2214.0	2174.4	1986.3	1756.6	1633.6
17°	1796.2	1759.6	1639.7	1428.2	1324.6
18°	1450.6	1445.5	1345.9	1162.9	1070.4
19°	1193.4	1191.4	1099.9	946.4	870.2
20°	952.5	965.7	895.6	761.4	709.6
21°	776.6	783.8	727.8	626.2	579.4
22°	632.3	637.4	600.8	517.4	492.0
23°	518.4	521.5	491.0	429.0	406.6
24°	427.0	429.0	401.5	357.8	338.5
25°	352.7	354.8	329.4	298.9	283.6
26°	292.8	294.8	272.4	251.1	235.8
27°	243.0	247.0	224.7	211.4	195.2
28°	207.4	208.4	188.1	179.9	164.7
29°	169.8	175.9	158.6	151.5	140.3
30°	145.4	148.4	135.2	130.1	120.0
32.5°	96.6	98.6	92.5	88.4	80.3
35°	65.1	66.1	65.1	59.0	53.9
37.5°	44.7	44.7	45.7	38.6	36.6
40°	30.5	30.5	31.5	26.4	25.4
42.5°	22.4	22.4	21.3	18.3	18.3
45°	16.3	16.3	15.2	14.2	14.2
47.5°	13.2	12.2	11.2	11.2	11.2
50°	10.2	10.2	9.1	8.1	9.1
52.5°	8.1	8.1	7.1	7.1	7.1
55°	7.1	6.1	5.1	5.1	6.1
57.5°	5.1	5.1	4.1	4.1	5.1
60°	5.1	4.1	3.0	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	1.0	1.0	2.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	0.0	1.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.1	3.0	3.0	3.0	3.0
65°	3.0	3.0	2.0	2.0	3.0



(END OF REPORT)