

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: P282759

Luminaire Tested: **LDA2B208050D010 EU2B20NFL258050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282759
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: LDA2B208050D010 EU2B20NFL258050 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746.1 lumens
Efficiency: N/A
Efficacy: 84.8 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

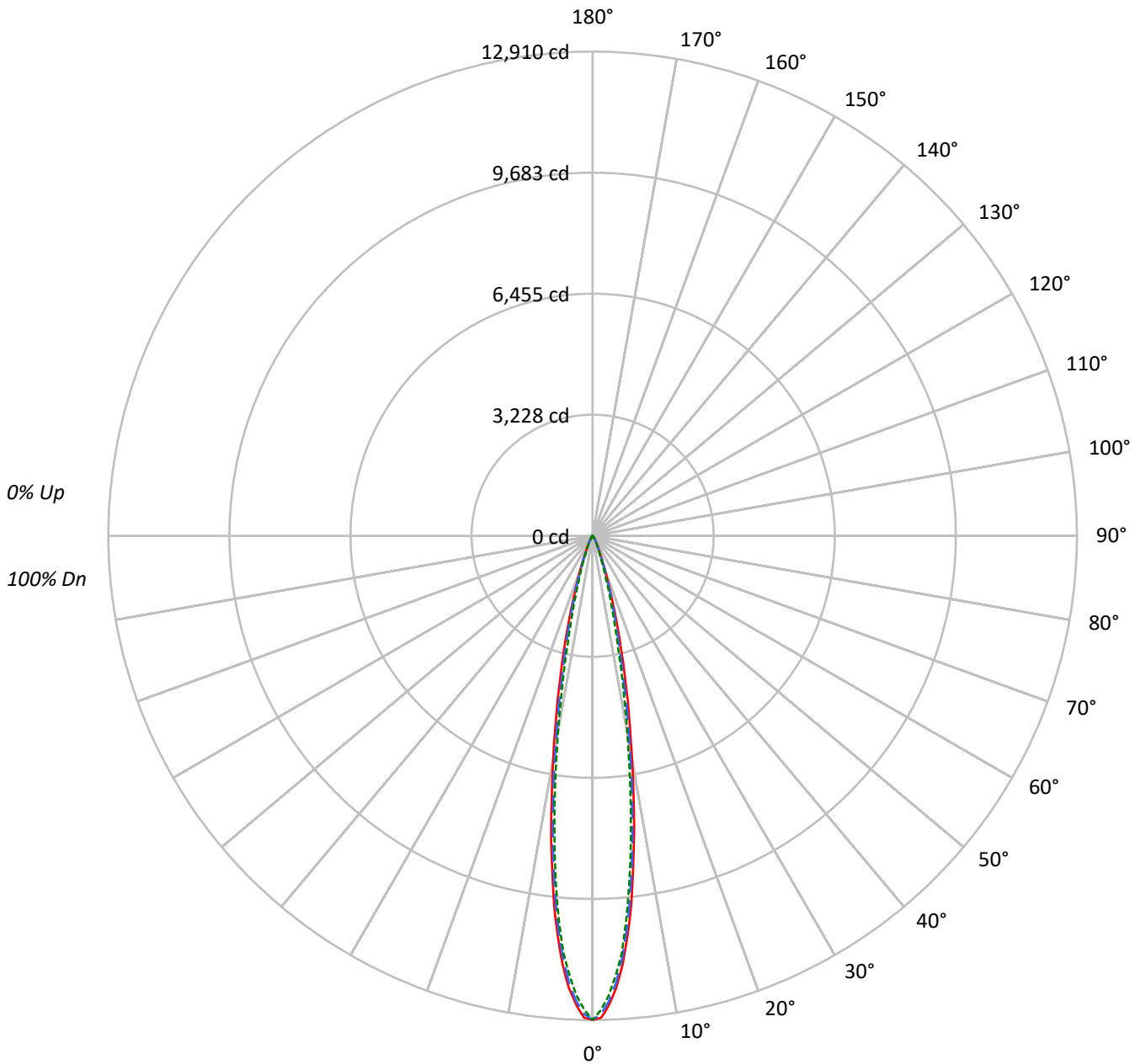
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	6369498	6369498	6369498
5°	5300077	5202959	5097917
10°	3035844	2848781	2658762
15°	1350260	1199227	1004932
20°	489848	460552	364892
25°	188078	175612	151224
30°	81123	75426	66938
35°	38365	38365	31801
40°	19257	19901	16037
45°	11094	10396	9698
50°	7675	6908	6908
55°	6021	4301	5161
60°	4934	2960	3947
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°	839.7	48.1
10°-20°	679.5	38.9
20°-30°	163.9	9.4
30°-40°	41.8	2.4
40°-50°	12.5	0.7
50°-60°	5.3	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°	1683.1	96.4
0°-40°	1724.8	98.8
0°-60°	1742.6	99.8
0°-90°	1746.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12910	12910	12910	12910	12910	
5°	10702	10603	10506	10414	10294	865
15°	2644	2581	2348	2115	1968	754
25°	346	348	323	293	278	178
35°	64	65	64	58	53	44
45°	16	16	15	14	14	13
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°	12910.4	12910.4	12910.4	12910.4	12910.4
1°	12852.7	12763.1	12752.1	12807.9	12643.6
2°	12524.1	12460.4	12423.5	12456.4	12270.2
3°	12073.0	12011.3	11944.6	11945.6	11737.5
4°	11458.7	11409.9	11297.4	11263.5	11143.0
5°	10701.9	10603.4	10505.8	10414.2	10293.7
6°	9865.5	9738.1	9598.7	9462.3	9338.8
7°	8881.8	8797.1	8612.9	8426.7	8322.2
8°	7956.7	7820.3	7605.3	7372.3	7283.6
9°	6962.0	6864.4	6617.5	6346.7	6258.1
10°	6059.9	5958.3	5686.5	5384.8	5307.2
11°	5213.6	5118.0	4835.2	4518.5	4435.9
12°	4497.6	4362.2	4037.6	3762.8	3682.1
13°	3784.7	3692.1	3384.4	3112.6	2956.3
14°	3178.3	3101.6	2822.8	2583.9	2418.6
15°	2643.6	2580.9	2347.9	2114.9	1967.5
16°	2168.7	2129.8	1945.6	1720.6	1600.1
17°	1759.4	1723.6	1606.1	1399.0	1297.4
18°	1420.9	1415.9	1318.3	1139.1	1048.5
19°	1169.0	1167.0	1077.4	927.0	852.3
20°	933.0	945.9	877.2	745.8	695.0
21°	760.7	767.7	712.9	613.4	567.6
22°	619.3	624.3	588.5	506.8	481.9
23°	507.8	510.8	480.9	420.2	398.3
24°	418.2	420.2	393.3	350.5	331.6
25°	345.5	347.5	322.6	292.7	277.8
26°	286.8	288.8	266.9	245.9	231.0
27°	238.0	242.0	220.1	207.1	191.2
28°	203.1	204.1	184.2	176.2	161.3
29°	166.3	172.3	155.3	148.4	137.4
30°	142.4	145.4	132.4	127.5	117.5
32.5°	94.6	96.6	90.6	86.6	78.7
35°	63.7	64.7	63.7	57.8	52.8
37.5°	43.8	43.8	44.8	37.8	35.8
40°	29.9	29.9	30.9	25.9	24.9
42.5°	21.9	21.9	20.9	17.9	17.9
45°	15.9	15.9	14.9	13.9	13.9
47.5°	12.9	11.9	11.0	11.0	11.0
50°	10.0	10.0	9.0	8.0	9.0
52.5°	8.0	8.0	7.0	7.0	7.0
55°	7.0	6.0	5.0	5.0	6.0
57.5°	5.0	5.0	4.0	4.0	5.0
60°	5.0	4.0	3.0	4.0	4.0



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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°	4.0	3.0	3.0	3.0	3.0
65°	3.0	3.0	2.0	2.0	3.0



(END OF REPORT)