

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: P282749

Luminaire Tested: **LDA2B208030D010 EU2B20NFL258030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282749
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: LDA2B208030D010 EU2B20NFL258030 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: 1693.7 lumens
Efficiency: N/A
Efficacy: 82.2 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

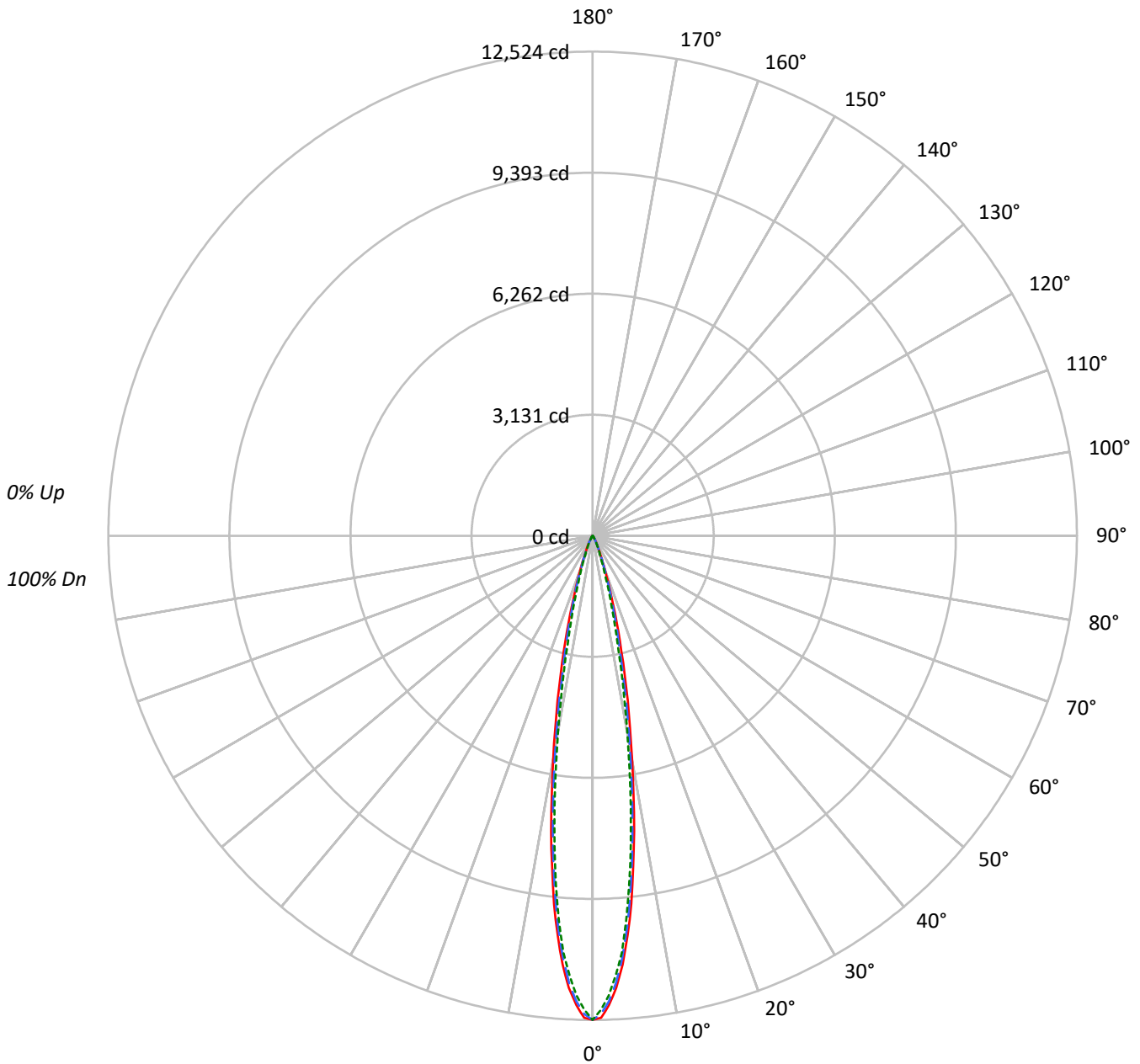
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6178715	6178715	6178715
5°	5141301	5047105	4945183
10°	2944918	2763466	2579108
15°	1309808	1163320	974847
20°	475147	446743	353972
25°	182471	170332	146706
30°	78674	73205	64944
35°	37221	37221	30837
40°	18677	19257	15521
45°	10815	10117	9419
50°	7445	6678	6678
55°	5849	4129	4989
60°	4736	2861	3848
65°	3385	2218	3385
70°	2741	1442	2741
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.5	48.1
10°-20°	659.2	38.9
20°-30°	159.0	9.4
30°-40°	40.5	2.4
40°-50°	12.1	0.7
50°-60°	5.2	0.3
60°-70°	2.5	0.1
70°-80°	0.8	0.1
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°	1632.6	96.4
0°-40°	1673.2	98.8
0°-60°	1690.4	99.8
0°-90°	1693.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12524	12524	12524	12524	12524	
5°	10381	10286	10191	10102	9985	839
15°	2564	2504	2278	2052	1909	731
25°	335	337	313	284	270	173
35°	62	63	62	56	51	43
45°	16	16	14	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°	12523.7	12523.7	12523.7	12523.7	12523.7
1°	12467.7	12380.7	12370.1	12424.2	12264.8
2°	12148.9	12087.1	12051.4	12083.2	11902.6
3°	11711.4	11651.5	11586.8	11587.7	11385.9
4°	11115.4	11068.1	10958.9	10926.1	10809.2
5°	10381.3	10285.7	10191.1	10102.2	9985.3
6°	9570.0	9446.4	9311.1	9178.8	9059.0
7°	8615.7	8533.6	8354.9	8174.3	8072.9
8°	7718.4	7586.1	7377.4	7151.4	7065.5
9°	6753.5	6658.8	6419.3	6156.6	6070.6
10°	5878.4	5779.9	5516.2	5223.5	5148.2
11°	5057.4	4964.7	4690.3	4383.2	4303.0
12°	4362.9	4231.5	3916.7	3650.1	3571.8
13°	3671.3	3581.5	3283.0	3019.4	2867.7
14°	3083.1	3008.7	2738.3	2506.5	2346.1
15°	2564.4	2503.6	2277.6	2051.5	1908.6
16°	2103.7	2066.0	1887.3	1669.1	1552.2
17°	1706.7	1671.9	1558.0	1357.1	1258.5
18°	1378.3	1373.5	1278.8	1105.0	1017.1
19°	1134.0	1132.0	1045.1	899.2	826.8
20°	905.0	917.6	850.9	723.4	674.2
21°	737.9	744.7	691.6	595.0	550.6
22°	600.8	605.6	570.8	491.6	467.5
23°	492.6	495.5	466.5	407.6	386.4
24°	405.7	407.6	381.5	340.0	321.6
25°	335.2	337.1	312.9	284.0	269.5
26°	278.2	280.1	258.9	238.6	224.1
27°	230.8	234.7	213.5	200.9	185.5
28°	197.0	198.0	178.7	171.0	156.5
29°	161.3	167.1	150.7	143.9	133.3
30°	138.1	141.0	128.5	123.6	114.0
32.5°	91.8	93.7	87.9	84.0	76.3
35°	61.8	62.8	61.8	56.0	51.2
37.5°	42.5	42.5	43.5	36.7	34.8
40°	29.0	29.0	29.9	25.1	24.1
42.5°	21.2	21.2	20.3	17.4	17.4
45°	15.5	15.5	14.5	13.5	13.5
47.5°	12.6	11.6	10.6	10.6	10.6
50°	9.7	9.7	8.7	7.7	8.7
52.5°	7.7	7.7	6.8	6.8	6.8
55°	6.8	5.8	4.8	4.8	5.8
57.5°	4.8	4.8	3.9	3.9	4.8
60°	4.8	3.9	2.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.0	1.0	1.9
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°	3.9	2.9	2.9	2.9	2.9
65°	2.9	2.9	1.9	1.9	2.9



(END OF REPORT)