

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: P282766

Luminaire Tested: **LDA2B209027D010 EU2B20NFL259027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282766
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: LDA2B209027D010 EU2B20NFL259027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1312.6 lumens
Efficiency: N/A
Efficacy: 63.7 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

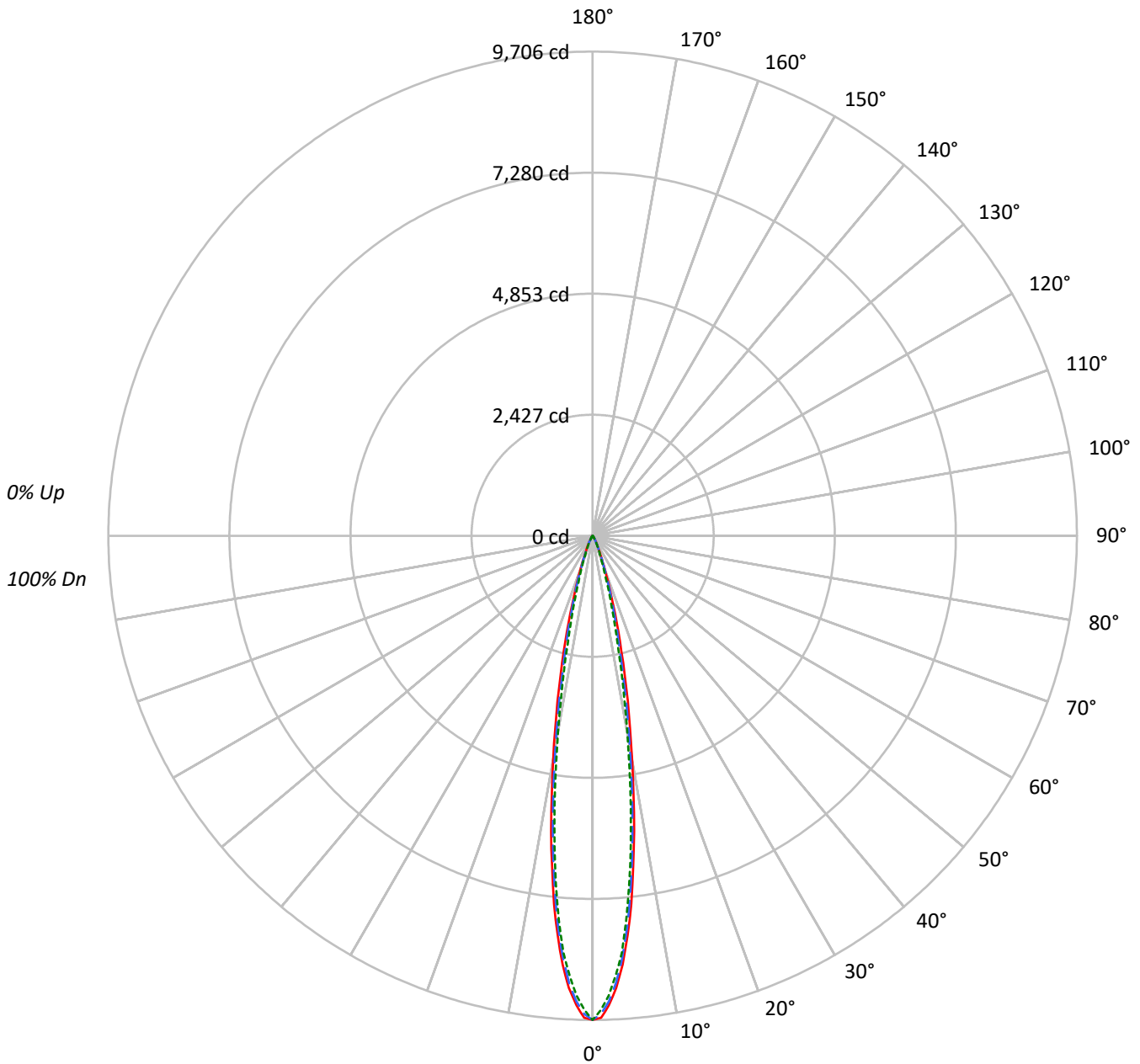
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4788668	4788668	4788668
5°	3984653	3911604	3832662
10°	2282381	2141758	1998881
15°	1015147	901604	755525
20°	368252	346254	274325
25°	141426	132008	113718
30°	60956	56741	50303
35°	28849	28849	23911
40°	14491	14942	12044
45°	8373	7814	7326
50°	5757	5142	5142
55°	4473	3183	3871
60°	3651	2171	2960
65°	2568	1751	2568
70°	2164	1010	2164
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.3	48.1
10°-20°	510.9	38.9
20°-30°	123.2	9.4
30°-40°	31.4	2.4
40°-50°	9.4	0.7
50°-60°	4.0	0.3
60°-70°	1.9	0.1
70°-80°	0.6	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°	1265.3	96.4
0°-40°	1296.7	98.8
0°-60°	1310.1	99.8
0°-90°	1312.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9706	9706	9706	9706	9706	
5°	8046	7972	7898	7830	7739	651
15°	1988	1940	1765	1590	1479	567
25°	260	261	242	220	209	134
35°	48	49	48	43	40	33
45°	12	12	11	10	10	10
55°	5	4	4	4	4	5
65°	2	2	2	2	2	2
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°	9706.2	9706.2	9706.2	9706.2	9706.2
1°	9662.8	9595.4	9587.2	9629.1	9505.6
2°	9415.7	9367.8	9340.1	9364.8	9224.8
3°	9076.6	9030.2	8980.1	8980.8	8824.3
4°	8614.7	8578.1	8493.5	8468.0	8377.4
5°	8045.8	7971.7	7898.3	7829.5	7738.9
6°	7417.0	7321.2	7216.4	7113.8	7021.0
7°	6677.4	6613.8	6475.3	6335.3	6256.7
8°	5982.0	5879.4	5717.7	5542.5	5475.9
9°	5234.1	5160.8	4975.1	4771.5	4704.9
10°	4555.9	4479.5	4275.2	4048.4	3990.0
11°	3919.6	3847.7	3635.1	3397.1	3335.0
12°	3381.4	3279.6	3035.5	2828.9	2768.3
13°	2845.4	2775.8	2544.4	2340.1	2222.6
14°	2389.5	2331.8	2122.2	1942.6	1818.3
15°	1987.5	1940.3	1765.2	1590.0	1479.2
16°	1630.4	1601.2	1462.7	1293.6	1203.0
17°	1322.8	1295.8	1207.5	1051.8	975.4
18°	1068.2	1064.5	991.1	856.4	788.3
19°	878.8	877.3	810.0	696.9	640.8
20°	701.4	711.2	659.5	560.7	522.5
21°	571.9	577.2	536.0	461.1	426.7
22°	465.6	469.4	442.4	381.0	362.3
23°	381.8	384.0	361.6	315.9	299.4
24°	314.4	315.9	295.7	263.5	249.3
25°	259.8	261.3	242.5	220.1	208.9
26°	215.6	217.1	200.6	184.9	173.7
27°	178.9	181.9	165.4	155.7	143.7
28°	152.7	153.5	138.5	132.5	121.3
29°	125.0	129.5	116.8	111.5	103.3
30°	107.0	109.3	99.6	95.8	88.3
32.5°	71.1	72.6	68.1	65.1	59.1
35°	47.9	48.7	47.9	43.4	39.7
37.5°	32.9	32.9	33.7	28.4	26.9
40°	22.5	22.5	23.2	19.5	18.7
42.5°	16.5	16.5	15.7	13.5	13.5
45°	12.0	12.0	11.2	10.5	10.5
47.5°	9.7	9.0	8.2	8.2	8.2
50°	7.5	7.5	6.7	6.0	6.7
52.5°	6.0	6.0	5.2	5.2	5.2
55°	5.2	4.5	3.7	3.7	4.5
57.5°	3.7	3.7	3.0	3.0	3.7
60°	3.7	3.0	2.2	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.2	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.7	0.7	1.5
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	3.0	2.2	2.2	2.2	2.2
65°	2.2	2.2	1.5	1.5	2.2



(END OF REPORT)