

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: P282273

Luminaire Tested: **LDA2B109730D010 EU2B10NFL259730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282273
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: LDA2B109730D010 EU2B10NFL259730 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 726.7 lumens
Efficiency: N/A
Efficacy: 72.7 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

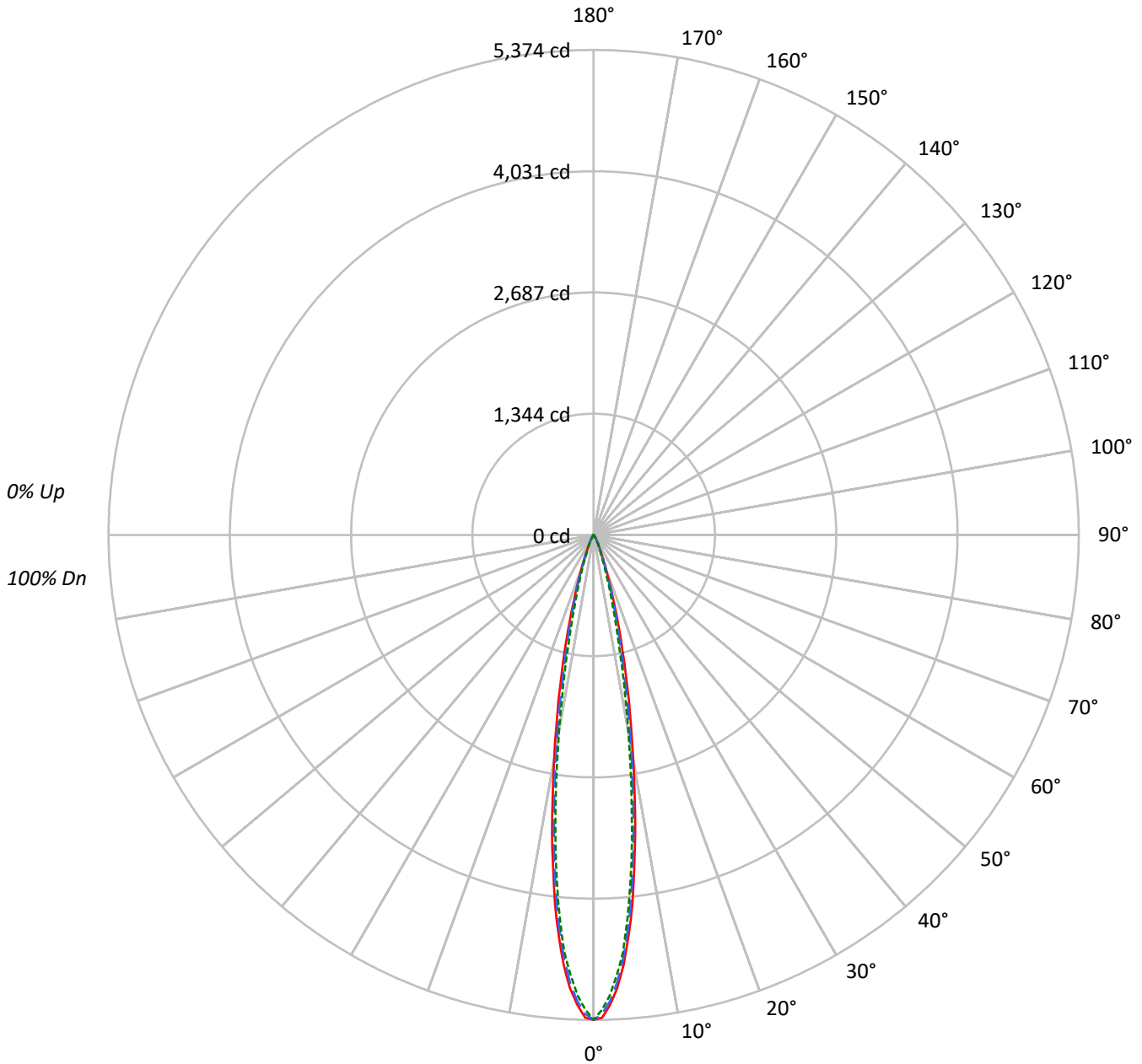
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2651080	2651080	2651080
5°	2205976	2165514	2121784
10°	1263553	1185702	1106599
15°	561996	499120	418266
20°	203867	191686	151890
25°	78280	73108	62929
30°	33782	31390	27858
35°	15961	15961	13250
40°	7986	8244	6698
45°	4605	4326	4047
50°	3147	2840	2840
55°	2494	1806	2150
60°	2072	1184	1677
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.5	48.1
10°-20°	282.8	38.9
20°-30°	68.2	9.4
30°-40°	17.4	2.4
40°-50°	5.2	0.7
50°-60°	2.2	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	700.5	96.4
0°-40°	717.9	98.8
0°-60°	725.3	99.8
0°-90°	726.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	726.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5374	5374	5374	5374	5374	
5°	4454	4413	4373	4334	4284	360
15°	1100	1074	977	880	819	314
25°	144	145	134	122	116	74
35°	26	27	26	24	22	18
45°	7	7	6	6	6	6
55°	3	2	2	2	2	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5373.5	5373.5	5373.5	5373.5	5373.5
1°	5349.4	5312.1	5307.6	5330.8	5262.4
2°	5212.7	5186.1	5170.8	5184.5	5107.0
3°	5024.9	4999.2	4971.5	4971.9	4885.3
4°	4769.2	4748.9	4702.1	4688.0	4637.9
5°	4454.3	4413.2	4372.6	4334.5	4284.3
6°	4106.1	4053.1	3995.1	3938.3	3886.9
7°	3696.7	3661.5	3584.8	3507.3	3463.8
8°	3311.7	3254.9	3165.4	3068.4	3031.5
9°	2897.7	2857.1	2754.3	2641.6	2604.7
10°	2522.2	2479.9	2366.8	2241.2	2208.9
11°	2169.9	2130.2	2012.5	1880.7	1846.3
12°	1872.0	1815.6	1680.5	1566.1	1532.6
13°	1575.2	1536.7	1408.6	1295.5	1230.4
14°	1322.9	1290.9	1174.9	1075.4	1006.6
15°	1100.3	1074.2	977.2	880.2	818.9
16°	902.6	886.5	809.8	716.1	666.0
17°	732.3	717.4	668.5	582.3	540.0
18°	591.4	589.3	548.7	474.1	436.4
19°	486.5	485.7	448.4	385.8	354.7
20°	388.3	393.7	365.1	310.4	289.3
21°	316.6	319.5	296.7	255.3	236.2
22°	257.8	259.8	244.9	210.9	200.6
23°	211.4	212.6	200.2	174.9	165.8
24°	174.1	174.9	163.7	145.9	138.0
25°	143.8	144.6	134.3	121.8	115.6
26°	119.4	120.2	111.1	102.4	96.1
27°	99.0	100.7	91.6	86.2	79.6
28°	84.5	85.0	76.7	73.4	67.1
29°	69.2	71.7	64.7	61.7	57.2
30°	59.3	60.5	55.1	53.0	48.9
32.5°	39.4	40.2	37.7	36.1	32.7
35°	26.5	26.9	26.5	24.0	22.0
37.5°	18.2	18.2	18.6	15.7	14.9
40°	12.4	12.4	12.8	10.8	10.4
42.5°	9.1	9.1	8.7	7.5	7.5
45°	6.6	6.6	6.2	5.8	5.8
47.5°	5.4	5.0	4.6	4.6	4.6
50°	4.1	4.1	3.7	3.3	3.7
52.5°	3.3	3.3	2.9	2.9	2.9
55°	2.9	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.7	1.7	2.1
60°	2.1	1.7	1.2	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.7	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)