

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: P282279

Luminaire Tested: **LDA2B10D2WD010 EU2B10NFL25D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282279
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: LDA2B10D2WD010 EU2B10NFL25D2W 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: 734.3 lumens
Efficiency: N/A
Efficacy: 73.4 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

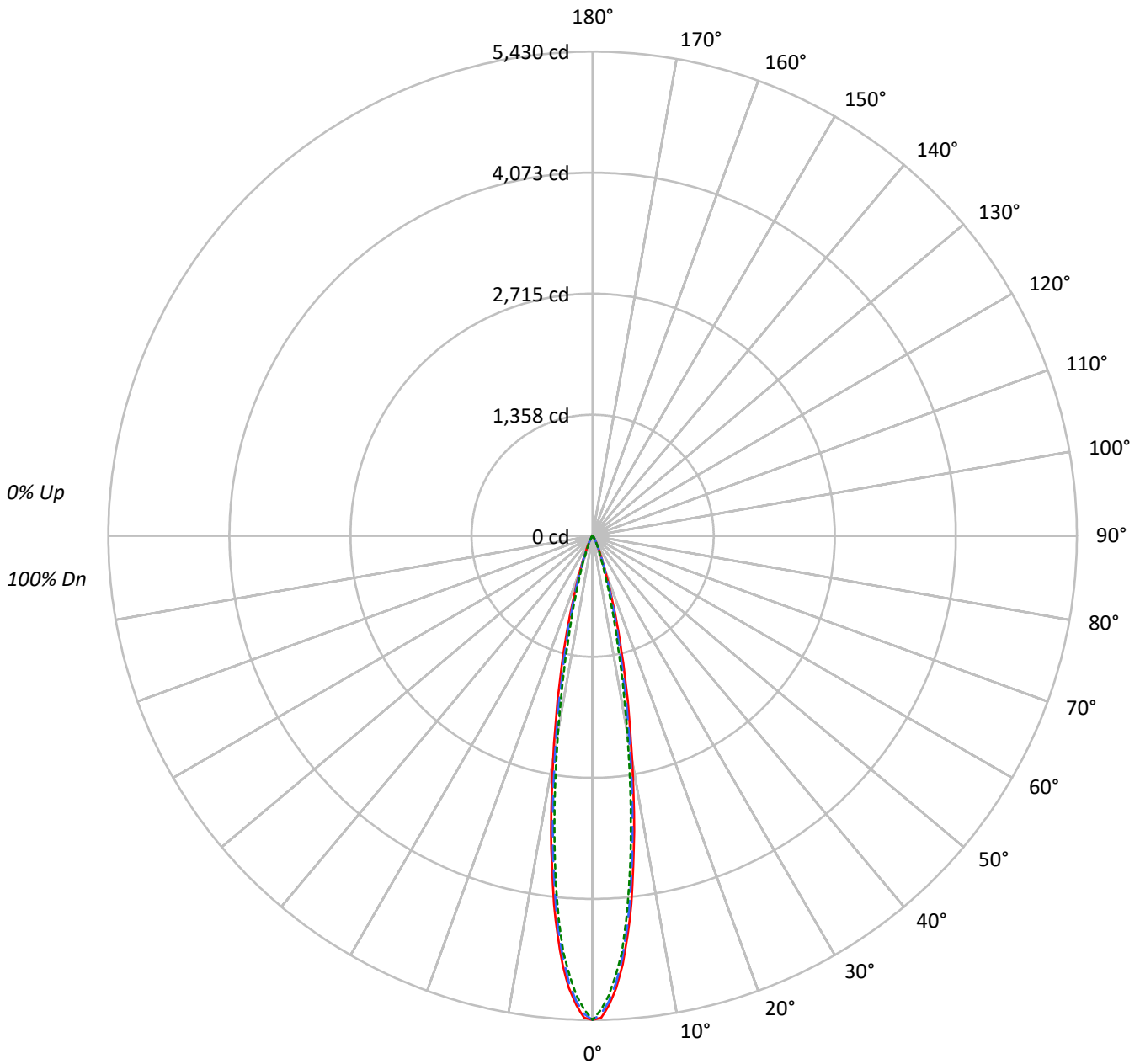
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2678856	2678856	2678856
5°	2229104	2188246	2144070
10°	1276829	1198126	1118221
15°	567869	504381	422659
20°	206020	193682	153465
25°	79096	73870	63582
30°	34124	31731	28142
35°	16141	16141	13371
40°	8115	8372	6762
45°	4675	4396	4117
50°	3224	2917	2917
55°	2494	1806	2150
60°	2072	1283	1677
65°	1518	934	1518
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°	353.2	48.1
10°-20°	285.8	38.9
20°-30°	68.9	9.4
30°-40°	17.6	2.4
40°-50°	5.2	0.7
50°-60°	2.2	0.3
60°-70°	1.1	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°	707.9	96.4
0°-40°	725.4	98.8
0°-60°	732.9	99.8
0°-90°	734.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5430	5430	5430	5430	5430	
5°	4501	4460	4418	4380	4329	364
15°	1112	1086	988	890	828	317
25°	145	146	136	123	117	75
35°	27	27	27	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5429.8	5429.8	5429.8	5429.8	5429.8
1°	5405.5	5367.8	5363.2	5386.7	5317.6
2°	5267.3	5240.5	5225.0	5238.9	5160.6
3°	5077.6	5051.7	5023.6	5024.0	4936.5
4°	4819.3	4798.7	4751.4	4737.2	4686.5
5°	4501.0	4459.5	4418.5	4380.0	4329.3
6°	4149.2	4095.6	4037.0	3979.6	3927.7
7°	3735.5	3699.9	3622.4	3544.1	3500.1
8°	3346.4	3289.1	3198.6	3100.6	3063.3
9°	2928.1	2887.0	2783.2	2669.3	2632.0
10°	2548.7	2505.9	2391.6	2264.7	2232.1
11°	2192.7	2152.5	2033.6	1900.4	1865.6
12°	1891.6	1834.6	1698.1	1582.5	1548.6
13°	1591.8	1552.8	1423.4	1309.1	1243.3
14°	1336.7	1304.5	1187.2	1086.7	1017.2
15°	1111.8	1085.5	987.5	889.5	827.5
16°	912.1	895.8	818.3	723.6	673.0
17°	740.0	724.9	675.5	588.4	545.7
18°	597.6	595.5	554.5	479.1	441.0
19°	491.6	490.8	453.1	389.9	358.5
20°	392.4	397.8	368.9	313.7	292.3
21°	319.9	322.9	299.8	258.0	238.7
22°	260.5	262.6	247.5	213.2	202.7
23°	213.6	214.8	202.3	176.7	167.5
24°	175.9	176.7	165.4	147.4	139.5
25°	145.3	146.2	135.7	123.1	116.8
26°	120.6	121.4	112.2	103.4	97.2
27°	100.1	101.8	92.5	87.1	80.4
28°	85.4	85.8	77.5	74.1	67.8
29°	69.9	72.4	65.3	62.4	57.8
30°	59.9	61.1	55.7	53.6	49.4
32.5°	39.8	40.6	38.1	36.4	33.1
35°	26.8	27.2	26.8	24.3	22.2
37.5°	18.4	18.4	18.8	15.9	15.1
40°	12.6	12.6	13.0	10.9	10.5
42.5°	9.2	9.2	8.8	7.5	7.5
45°	6.7	6.7	6.3	5.9	5.9
47.5°	5.4	5.0	4.6	4.6	4.6
50°	4.2	4.2	3.8	3.4	3.8
52.5°	3.4	3.4	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	1.3	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	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	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.8	0.8	1.3



(END OF REPORT)