

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: P282272

Luminaire Tested: **LDA2B109730D010 EU2B10NFL259730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282272
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 734.6 lumens
Efficiency: N/A
Efficacy: 73.5 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

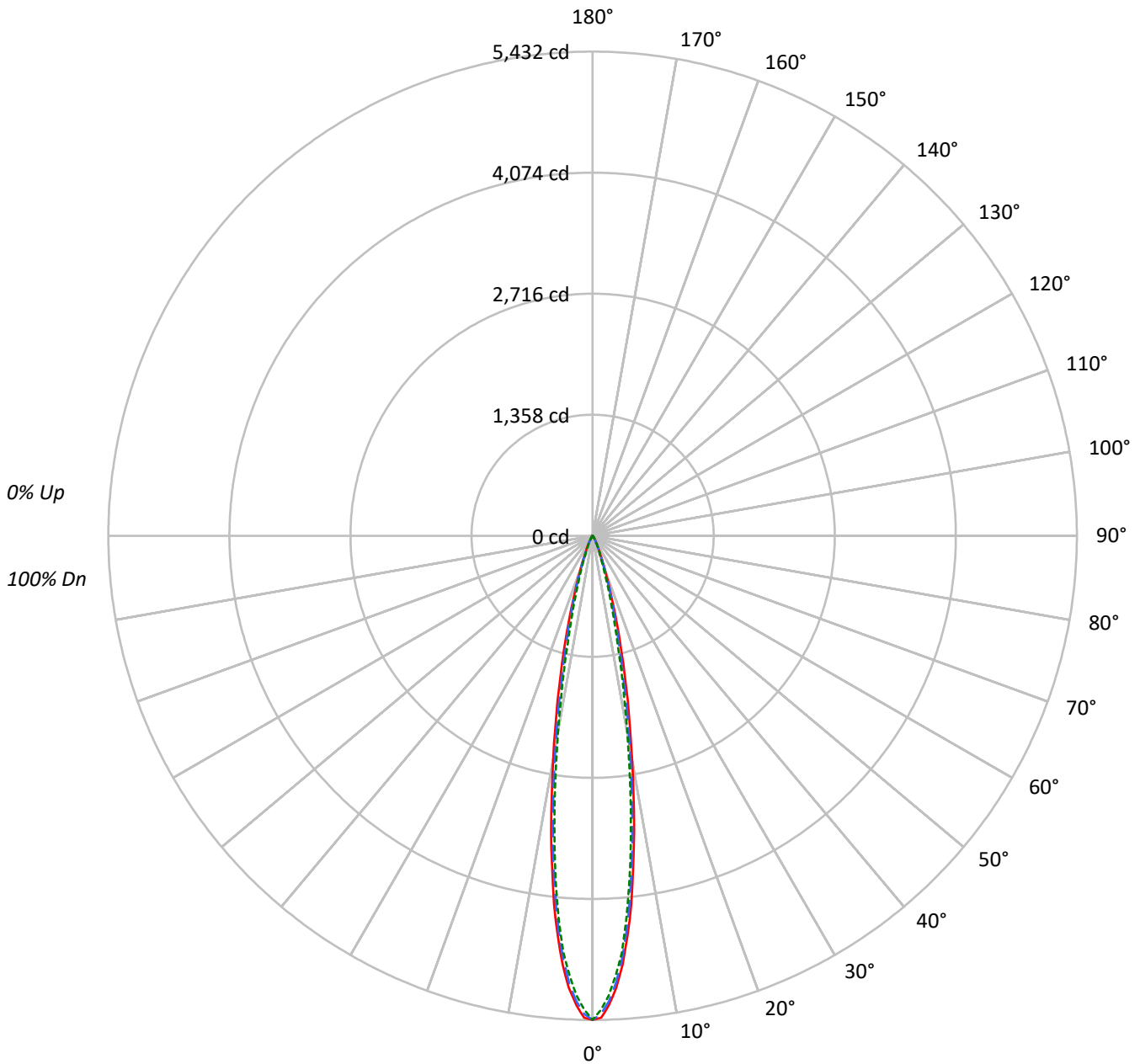
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2679793	2679793	2679793
5°	2229847	2188989	2144813
10°	1277230	1198527	1118572
15°	568074	504534	422812
20°	206072	193787	153517
25°	79151	73870	63636
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°	353.3	48.1
10°-20°	285.9	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°	708.1	96.4
0°-40°	725.7	98.8
0°-60°	733.2	99.8
0°-90°	734.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5432	5432	5432	5432	5432	
5°	4502	4461	4420	4381	4331	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°	5431.7	5431.7	5431.7	5431.7	5431.7
1°	5407.4	5369.7	5365.1	5388.5	5319.4
2°	5269.1	5242.3	5226.8	5240.6	5162.3
3°	5079.4	5053.4	5025.3	5025.7	4938.2
4°	4820.9	4800.4	4753.0	4738.8	4688.1
5°	4502.5	4461.0	4420.0	4381.4	4330.8
6°	4150.6	4097.0	4038.4	3981.0	3929.0
7°	3736.7	3701.1	3623.6	3545.3	3501.3
8°	3347.6	3290.2	3199.7	3101.7	3064.4
9°	2929.1	2888.0	2784.1	2670.2	2632.9
10°	2549.5	2506.8	2392.4	2265.5	2232.8
11°	2193.4	2153.2	2034.3	1901.0	1866.3
12°	1892.2	1835.3	1698.7	1583.1	1549.2
13°	1592.3	1553.3	1423.9	1309.5	1243.8
14°	1337.2	1304.9	1187.6	1087.1	1017.5
15°	1112.2	1085.8	987.8	889.8	827.8
16°	912.4	896.1	818.6	723.9	673.2
17°	740.2	725.1	675.7	588.6	545.8
18°	597.8	595.7	554.6	479.2	441.1
19°	491.8	491.0	453.3	390.0	358.6
20°	392.5	398.0	369.1	313.8	292.4
21°	320.1	323.0	299.9	258.1	238.8
22°	260.6	262.7	247.6	213.2	202.8
23°	213.6	214.9	202.3	176.8	167.6
24°	175.9	176.8	165.5	147.5	139.5
25°	145.4	146.2	135.7	123.2	116.9
26°	120.6	121.5	112.3	103.5	97.2
27°	100.1	101.8	92.6	87.1	80.4
28°	85.5	85.9	77.5	74.1	67.9
29°	70.0	72.5	65.4	62.4	57.8
30°	59.9	61.2	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	18.9	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)