

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: P282255

Luminaire Tested: **LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282255
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: LDA2B109040D010 EU2B10NFL259040 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: 839.4 lumens
Efficiency: N/A
Efficacy: 83.9 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

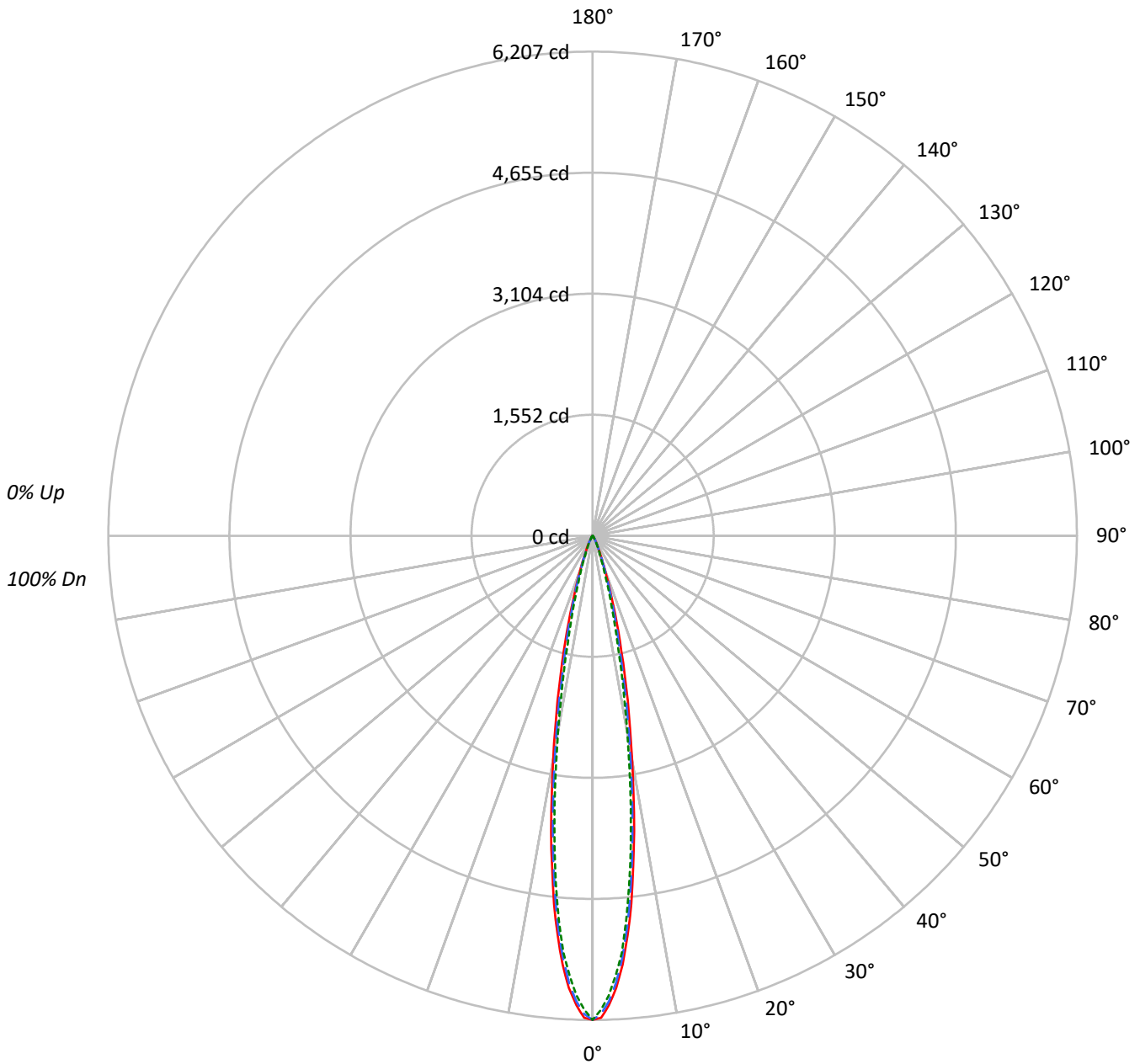
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3062198	3062198	3062198
5°	2548092	2501390	2450875
10°	1459534	1369609	1278232
15°	649132	576552	483133
20°	235474	221403	175411
25°	90419	84431	72727
30°	39023	36289	32187
35°	18430	18430	15298
40°	9274	9532	7728
45°	5372	5024	4675
50°	3684	3300	3300
55°	2925	2064	2494
60°	2368	1381	1875
65°	1634	1167	1634
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	48.1
10°-20°	326.7	38.9
20°-30°	78.8	9.4
30°-40°	20.1	2.4
40°-50°	6.0	0.7
50°-60°	2.6	0.3
60°-70°	1.2	0.1
70°-80°	0.4	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°	809.2	96.4
0°-40°	829.2	98.8
0°-60°	837.8	99.8
0°-90°	839.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6207	6207	6207	6207	6207	
5°	5145	5098	5051	5007	4949	416
15°	1271	1241	1129	1017	946	362
25°	166	167	155	141	134	86
35°	31	31	31	28	25	21
45°	8	8	7	7	7	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	2
75°	0	0	0	0	0	1
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°	6206.8	6206.8	6206.8	6206.8	6206.8
1°	6179.1	6136.0	6130.7	6157.5	6078.5
2°	6021.1	5990.5	5972.7	5988.5	5899.0
3°	5804.2	5774.6	5742.5	5743.0	5642.9
4°	5508.9	5485.4	5431.3	5415.1	5357.1
5°	5145.1	5097.7	5050.8	5006.7	4948.8
6°	4743.0	4681.7	4614.7	4549.1	4489.7
7°	4270.0	4229.3	4140.8	4051.2	4001.0
8°	3825.3	3759.7	3656.3	3544.3	3501.7
9°	3347.1	3300.2	3181.4	3051.2	3008.6
10°	2913.4	2864.5	2733.9	2588.8	2551.5
11°	2506.5	2460.5	2324.6	2172.3	2132.6
12°	2162.3	2097.2	1941.1	1809.0	1770.2
13°	1819.5	1775.0	1627.1	1496.4	1421.3
14°	1528.0	1491.2	1357.1	1242.2	1162.8
15°	1270.9	1240.8	1128.8	1016.8	945.9
16°	1042.6	1023.9	935.4	827.2	769.3
17°	845.9	828.6	772.1	672.6	623.7
18°	683.1	680.7	633.8	547.6	504.1
19°	562.0	561.0	518.0	445.7	409.8
20°	448.5	454.8	421.7	358.5	334.1
21°	365.7	369.1	342.7	294.9	272.9
22°	297.8	300.1	282.9	243.7	231.7
23°	244.1	245.6	231.2	202.0	191.5
24°	201.1	202.0	189.1	168.5	159.4
25°	166.1	167.1	155.1	140.7	133.6
26°	137.9	138.8	128.3	118.2	111.1
27°	114.4	116.3	105.8	99.6	91.9
28°	97.7	98.1	88.6	84.7	77.5
29°	79.9	82.8	74.7	71.3	66.1
30°	68.5	69.9	63.7	61.3	56.5
32.5°	45.5	46.4	43.6	41.6	37.8
35°	30.6	31.1	30.6	27.8	25.4
37.5°	21.1	21.1	21.5	18.2	17.2
40°	14.4	14.4	14.8	12.4	12.0
42.5°	10.5	10.5	10.1	8.6	8.6
45°	7.7	7.7	7.2	6.7	6.7
47.5°	6.2	5.7	5.3	5.3	5.3
50°	4.8	4.8	4.3	3.8	4.3
52.5°	3.8	3.8	3.4	3.4	3.4
55°	3.4	2.9	2.4	2.4	2.9
57.5°	2.4	2.4	1.9	1.9	2.4
60°	2.4	1.9	1.4	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	1.9	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.0	1.0	1.4



(END OF REPORT)