

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: P282699

Luminaire Tested: **LDA2B109730D010 EU2B10NFL259730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282699
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 667.9 lumens
Efficiency: N/A
Efficacy: 66.8 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

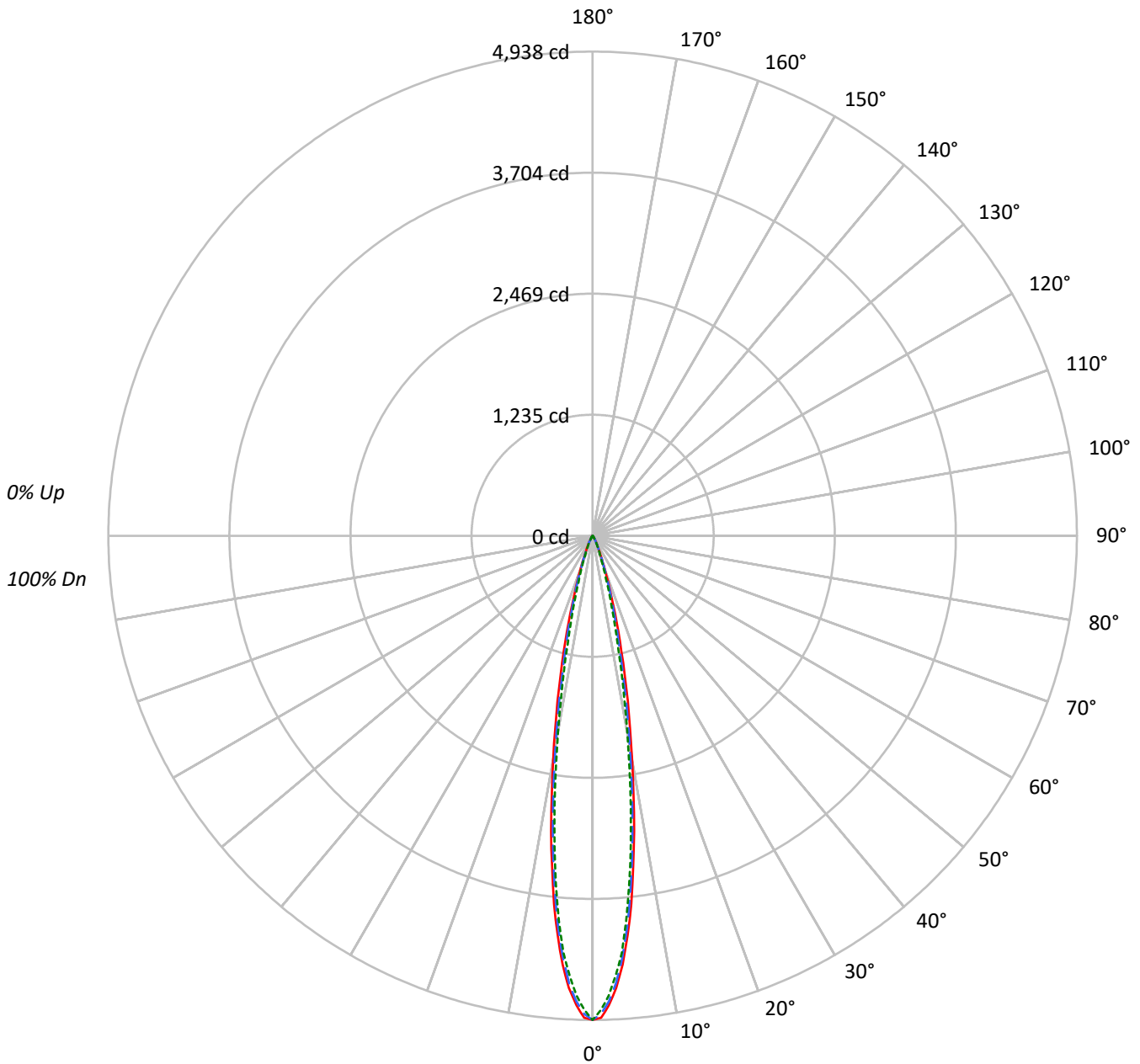
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2436418	2436418	2436418
5°	2027390	1990197	1950033
10°	1161255	1089716	1017025
15°	516486	458719	384402
20°	187381	176198	139604
25°	71965	67175	57866
30°	31048	28883	25579
35°	14696	14696	12166
40°	7342	7600	6118
45°	4256	3977	3698
50°	2917	2610	2610
55°	2322	1634	1978
60°	1875	1085	1480
65°	1284	934	1284
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°	321.2	48.1
10°-20°	259.9	38.9
20°-30°	62.7	9.4
30°-40°	16.0	2.4
40°-50°	4.8	0.7
50°-60°	2.0	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	643.8	96.4
0°-40°	659.8	98.8
0°-60°	666.6	99.8
0°-90°	667.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4938	4938	4938	4938	4938	
5°	4094	4056	4019	3984	3938	331
15°	1011	987	898	809	753	288
25°	132	133	123	112	106	68
35°	24	25	24	22	20	17
45°	6	6	6	5	5	5
55°	3	2	2	2	2	2
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°	4938.4	4938.4	4938.4	4938.4	4938.4
1°	4916.3	4882.1	4877.9	4899.2	4836.4
2°	4790.7	4766.3	4752.2	4764.8	4693.5
3°	4618.1	4594.5	4569.0	4569.4	4489.8
4°	4383.1	4364.5	4321.4	4308.5	4262.4
5°	4093.7	4055.9	4018.6	3983.6	3937.5
6°	3773.7	3725.0	3671.6	3619.5	3572.2
7°	3397.4	3365.0	3294.6	3223.4	3183.4
8°	3043.6	2991.4	2909.1	2820.0	2786.1
9°	2663.1	2625.8	2531.3	2427.7	2393.8
10°	2318.0	2279.2	2175.2	2059.8	2030.1
11°	1994.3	1957.7	1849.5	1728.4	1696.8
12°	1720.4	1668.6	1544.5	1439.3	1408.5
13°	1447.7	1412.3	1294.6	1190.6	1130.8
14°	1215.8	1186.4	1079.8	988.4	925.1
15°	1011.2	987.2	898.1	809.0	752.6
16°	829.5	814.7	744.2	658.2	612.1
17°	673.0	659.3	614.4	535.1	496.3
18°	543.5	541.6	504.3	435.7	401.1
19°	447.1	446.4	412.1	354.6	326.0
20°	356.9	361.8	335.6	285.3	265.9
21°	291.0	293.7	272.7	234.6	217.1
22°	236.9	238.8	225.1	193.9	184.3
23°	194.2	195.4	184.0	160.7	152.4
24°	160.0	160.7	150.4	134.1	126.8
25°	132.2	132.9	123.4	112.0	106.3
26°	109.7	110.5	102.1	94.1	88.4
27°	91.0	92.6	84.2	79.2	73.1
28°	77.7	78.1	70.5	67.4	61.7
29°	63.6	65.9	59.4	56.8	52.6
30°	54.5	55.6	50.7	48.8	44.9
32.5°	36.2	36.9	34.7	33.1	30.1
35°	24.4	24.8	24.4	22.1	20.2
37.5°	16.8	16.8	17.1	14.5	13.7
40°	11.4	11.4	11.8	9.9	9.5
42.5°	8.4	8.4	8.0	6.9	6.9
45°	6.1	6.1	5.7	5.3	5.3
47.5°	5.0	4.6	4.2	4.2	4.2
50°	3.8	3.8	3.4	3.0	3.4
52.5°	3.0	3.0	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.1	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.8	0.8	1.1



(END OF REPORT)