

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: P282678

Luminaire Tested: **LDA2B109024D010 EU2B10NFL259024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282678
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: LDA2B109024D010 EU2B10NFL259024 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: 647.3 lumens
Efficiency: N/A
Efficacy: 64.7 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

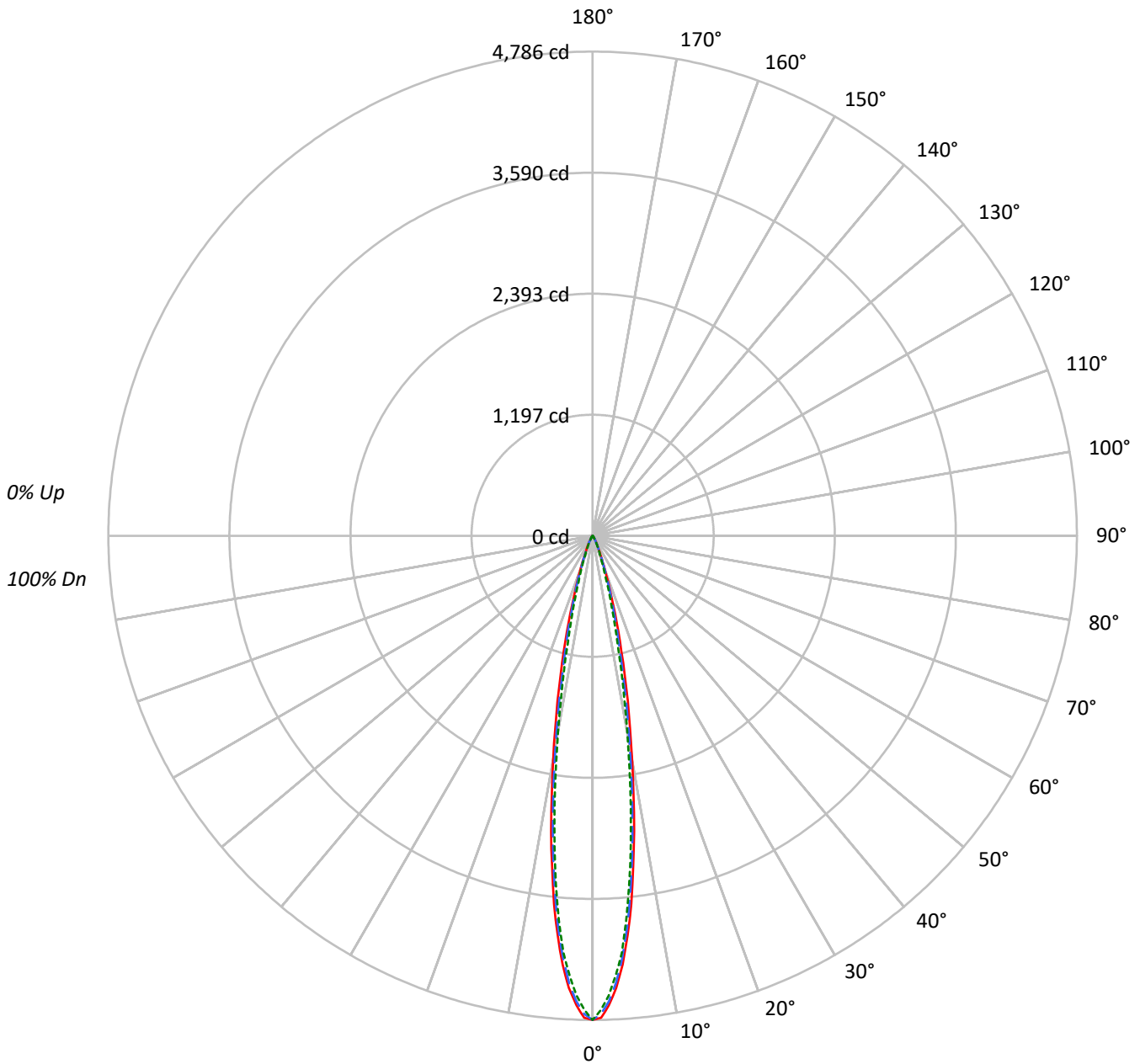
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2361279	2361279	2361279
5°	1964840	1928786	1889860
10°	1125435	1056101	985614
15°	500550	444570	372553
20°	181606	170738	135246
25°	69733	65106	56070
30°	30079	27972	24838
35°	14214	14214	11805
40°	7149	7342	5925
45°	4117	3837	3628
50°	2840	2533	2533
55°	2236	1548	1892
60°	1776	1085	1480
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.3	48.1
10°-20°	251.9	38.9
20°-30°	60.7	9.4
30°-40°	15.5	2.4
40°-50°	4.6	0.7
50°-60°	2.0	0.3
60°-70°	0.9	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°	623.9	96.4
0°-40°	639.4	98.8
0°-60°	646.0	99.8
0°-90°	647.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4786	4786	4786	4786	4786	
5°	3967	3931	3895	3861	3816	321
15°	980	957	870	784	729	279
25°	128	129	120	108	103	66
35°	24	24	24	21	20	16
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°	4786.1	4786.1	4786.1	4786.1	4786.1
1°	4764.7	4731.5	4727.4	4748.1	4687.2
2°	4642.9	4619.2	4605.6	4617.8	4548.7
3°	4475.6	4452.8	4428.0	4428.4	4351.3
4°	4247.9	4229.8	4188.1	4175.6	4130.9
5°	3967.4	3930.8	3894.6	3860.7	3816.0
6°	3657.3	3610.0	3558.4	3507.8	3462.0
7°	3292.6	3261.2	3192.9	3123.9	3085.2
8°	2949.7	2899.1	2819.4	2733.0	2700.2
9°	2580.9	2544.8	2453.2	2352.8	2320.0
10°	2246.5	2208.8	2108.1	1996.2	1967.4
11°	1932.7	1897.3	1792.5	1675.1	1644.5
12°	1667.3	1617.1	1496.8	1394.9	1365.0
13°	1403.0	1368.7	1254.7	1153.9	1095.9
14°	1178.2	1149.8	1046.5	957.9	896.6
15°	980.0	956.8	870.4	784.0	729.4
16°	804.0	789.6	721.3	637.8	593.2
17°	652.2	639.0	595.4	518.6	481.0
18°	526.7	524.9	488.7	422.3	388.7
19°	433.4	432.6	399.4	343.7	316.0
20°	345.9	350.7	325.2	276.5	257.6
21°	282.0	284.6	264.3	227.4	210.4
22°	229.6	231.4	218.2	187.9	178.7
23°	188.3	189.4	178.3	155.8	147.7
24°	155.0	155.8	145.8	129.9	122.9
25°	128.1	128.8	119.6	108.5	103.0
26°	106.3	107.0	98.9	91.2	85.6
27°	88.2	89.7	81.6	76.8	70.9
28°	75.3	75.7	68.3	65.3	59.8
29°	61.6	63.9	57.6	55.0	50.9
30°	52.8	53.9	49.1	47.2	43.6
32.5°	35.1	35.8	33.6	32.1	29.2
35°	23.6	24.0	23.6	21.4	19.6
37.5°	16.2	16.2	16.6	14.0	13.3
40°	11.1	11.1	11.4	9.6	9.2
42.5°	8.1	8.1	7.8	6.6	6.6
45°	5.9	5.9	5.5	5.2	5.2
47.5°	4.8	4.4	4.1	4.1	4.1
50°	3.7	3.7	3.3	3.0	3.3
52.5°	3.0	3.0	2.6	2.6	2.6
55°	2.6	2.2	1.8	1.8	2.2
57.5°	1.8	1.8	1.5	1.5	1.8
60°	1.8	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	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
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	0.7	0.7	1.1



(END OF REPORT)