

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: P282267

Luminaire Tested: **LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282267
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: LDA2B109727D010 EU2B10NFL259727 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: 682.8 lumens
Efficiency: N/A
Efficacy: 68.3 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

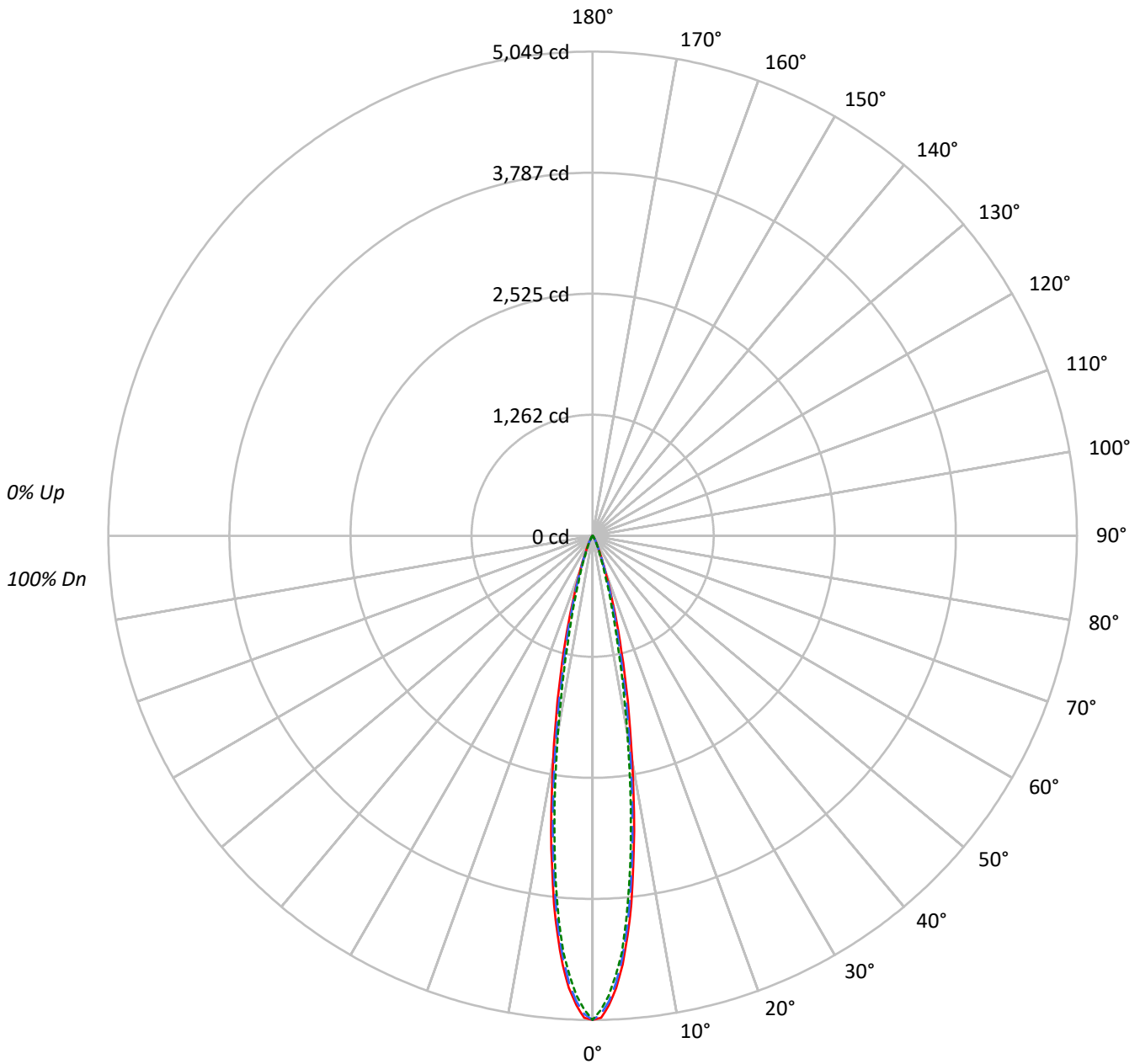
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2490934	2490934	2490934
5°	2072705	2034720	1993614
10°	1187205	1114063	1039769
15°	528030	468985	392983
20°	191581	180136	142702
25°	73544	68699	59118
30°	31731	29510	26149
35°	14997	14997	12407
40°	7535	7793	6247
45°	4326	4047	3837
50°	2993	2686	2686
55°	2322	1634	1978
60°	1875	1184	1579
65°	1401	934	1401
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°	328.4	48.1
10°-20°	265.7	38.9
20°-30°	64.1	9.4
30°-40°	16.3	2.4
40°-50°	4.9	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.2
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°	658.2	96.4
0°-40°	674.5	98.8
0°-60°	681.5	99.8
0°-90°	682.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5049	5049	5049	5049	5049	
5°	4185	4147	4108	4073	4026	338
15°	1034	1009	918	827	769	295
25°	135	136	126	114	109	70
35°	25	25	25	23	21	17
45°	6	6	6	6	6	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°	5048.9	5048.9	5048.9	5048.9	5048.9
1°	5026.3	4991.2	4987.0	5008.8	4944.5
2°	4897.8	4872.9	4858.5	4871.3	4798.5
3°	4721.4	4697.2	4671.2	4671.5	4590.2
4°	4481.1	4462.1	4418.0	4404.8	4357.7
5°	4185.2	4146.6	4108.5	4072.7	4025.5
6°	3858.1	3808.3	3753.7	3700.4	3652.1
7°	3473.4	3440.3	3368.2	3295.4	3254.5
8°	3111.6	3058.3	2974.2	2883.1	2848.4
9°	2722.6	2684.5	2587.9	2482.0	2447.3
10°	2369.8	2330.1	2223.8	2105.8	2075.5
11°	2038.9	2001.5	1890.9	1767.1	1734.7
12°	1758.9	1705.9	1579.0	1471.5	1440.0
13°	1480.1	1443.9	1323.5	1217.2	1156.1
14°	1242.9	1213.0	1103.9	1010.5	945.8
15°	1033.8	1009.3	918.2	827.1	769.4
16°	848.1	832.9	760.9	672.9	625.8
17°	688.1	674.0	628.1	547.1	507.4
18°	555.7	553.7	515.6	445.5	410.0
19°	457.1	456.4	421.3	362.5	333.3
20°	364.9	369.9	343.1	291.7	271.8
21°	297.5	300.2	278.8	239.9	222.0
22°	242.2	244.1	230.1	198.2	188.5
23°	198.6	199.8	188.1	164.3	155.8
24°	163.5	164.3	153.8	137.1	129.7
25°	135.1	135.9	126.2	114.5	108.6
26°	112.1	112.9	104.4	96.2	90.3
27°	93.1	94.6	86.1	81.0	74.8
28°	79.4	79.8	72.0	68.9	63.1
29°	65.0	67.4	60.7	58.0	53.7
30°	55.7	56.9	51.8	49.8	45.9
32.5°	37.0	37.8	35.4	33.9	30.8
35°	24.9	25.3	24.9	22.6	20.6
37.5°	17.1	17.1	17.5	14.8	14.0
40°	11.7	11.7	12.1	10.1	9.7
42.5°	8.6	8.6	8.2	7.0	7.0
45°	6.2	6.2	5.8	5.5	5.5
47.5°	5.1	4.7	4.3	4.3	4.3
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.6	1.6	1.9
60°	1.9	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)