

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: P282690

Luminaire Tested: **LDA2B109040D010 EU2B10NFL259040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282690
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 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: 771.4 lumens
Efficiency: N/A
Efficacy: 77.1 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

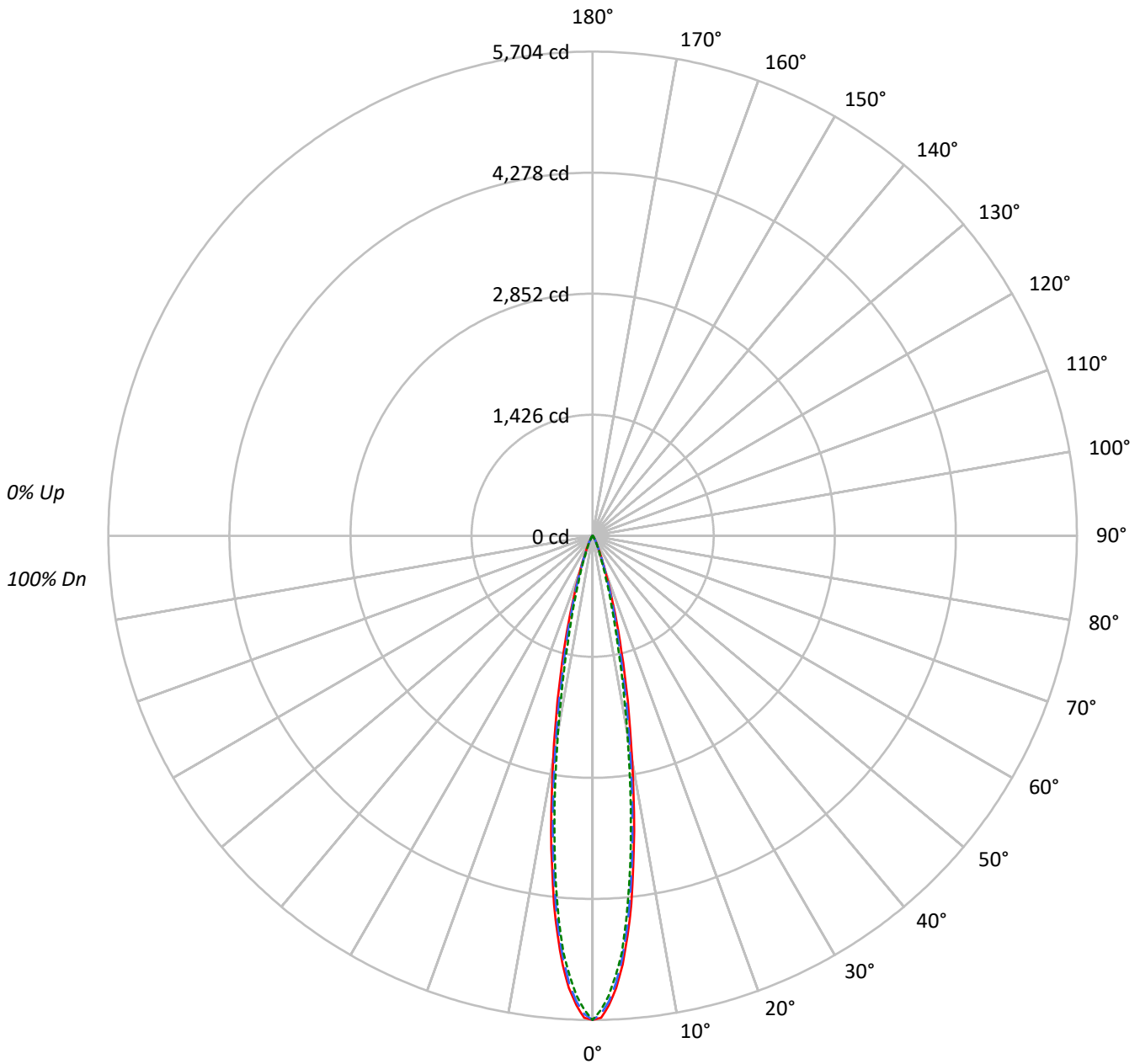
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2814284	2814284	2814284
5°	2341772	2298884	2252479
10°	1341354	1258694	1174731
15°	596625	529868	444009
20°	216415	203500	161235
25°	83124	77572	66794
30°	35833	33327	29567
35°	16984	16984	14033
40°	8501	8759	7084
45°	4884	4605	4326
50°	3377	3070	3070
55°	2666	1892	2236
60°	2171	1283	1776
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.0	48.1
10°-20°	300.2	38.9
20°-30°	72.4	9.4
30°-40°	18.5	2.4
40°-50°	5.5	0.7
50°-60°	2.4	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°	743.6	96.4
0°-40°	762.1	98.8
0°-60°	770.0	99.8
0°-90°	771.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5704	5704	5704	5704	5704	
5°	4728	4685	4642	4601	4548	382
15°	1168	1140	1037	934	869	333
25°	153	154	142	129	123	79
35°	28	29	28	26	23	19
45°	7	7	7	6	6	6
55°	3	3	2	2	3	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°	5704.3	5704.3	5704.3	5704.3	5704.3
1°	5678.8	5639.2	5634.4	5659.0	5586.4
2°	5533.6	5505.5	5489.2	5503.7	5421.5
3°	5334.3	5307.1	5277.6	5278.0	5186.1
4°	5062.9	5041.3	4991.6	4976.7	4923.4
5°	4728.5	4685.0	4641.9	4601.4	4548.2
6°	4359.0	4302.7	4241.1	4180.8	4126.3
7°	3924.3	3886.9	3805.5	3723.3	3677.1
8°	3515.6	3455.3	3360.3	3257.4	3218.2
9°	3076.1	3033.0	2923.9	2804.2	2765.1
10°	2677.5	2632.6	2512.5	2379.2	2344.9
11°	2303.6	2261.3	2136.4	1996.5	1960.0
12°	1987.2	1927.4	1784.0	1662.6	1626.9
13°	1672.2	1631.3	1495.4	1375.3	1306.2
14°	1404.3	1370.4	1247.2	1141.7	1068.6
15°	1168.1	1140.3	1037.4	934.4	869.3
16°	958.2	941.0	859.7	760.2	707.0
17°	777.4	761.5	709.6	618.1	573.2
18°	627.8	625.6	582.5	503.3	463.3
19°	516.5	515.6	476.0	409.6	376.6
20°	412.2	417.9	387.6	329.5	307.1
21°	336.1	339.2	315.0	271.0	250.8
22°	273.6	275.8	260.0	223.9	212.9
23°	224.4	225.7	212.5	185.7	176.0
24°	184.8	185.7	173.8	154.9	146.5
25°	152.7	153.5	142.5	129.3	122.7
26°	126.7	127.6	117.9	108.7	102.1
27°	105.1	106.9	97.2	91.5	84.5
28°	89.7	90.2	81.4	77.9	71.3
29°	73.5	76.1	68.6	65.6	60.7
30°	62.9	64.2	58.5	56.3	51.9
32.5°	41.8	42.7	40.0	38.3	34.8
35°	28.2	28.6	28.2	25.5	23.3
37.5°	19.4	19.4	19.8	16.7	15.8
40°	13.2	13.2	13.6	11.4	11.0
42.5°	9.7	9.7	9.2	7.9	7.9
45°	7.0	7.0	6.6	6.2	6.2
47.5°	5.7	5.3	4.8	4.8	4.8
50°	4.4	4.4	4.0	3.5	4.0
52.5°	3.5	3.5	3.1	3.1	3.1
55°	3.1	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.8	1.8	2.2
60°	2.2	1.8	1.3	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
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°	1.8	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)