

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: P283901

Luminaire Tested: **LDA2B108040D010 EU2B10WFL558040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108040D010 EU2B10WFL558040 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 982.9 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

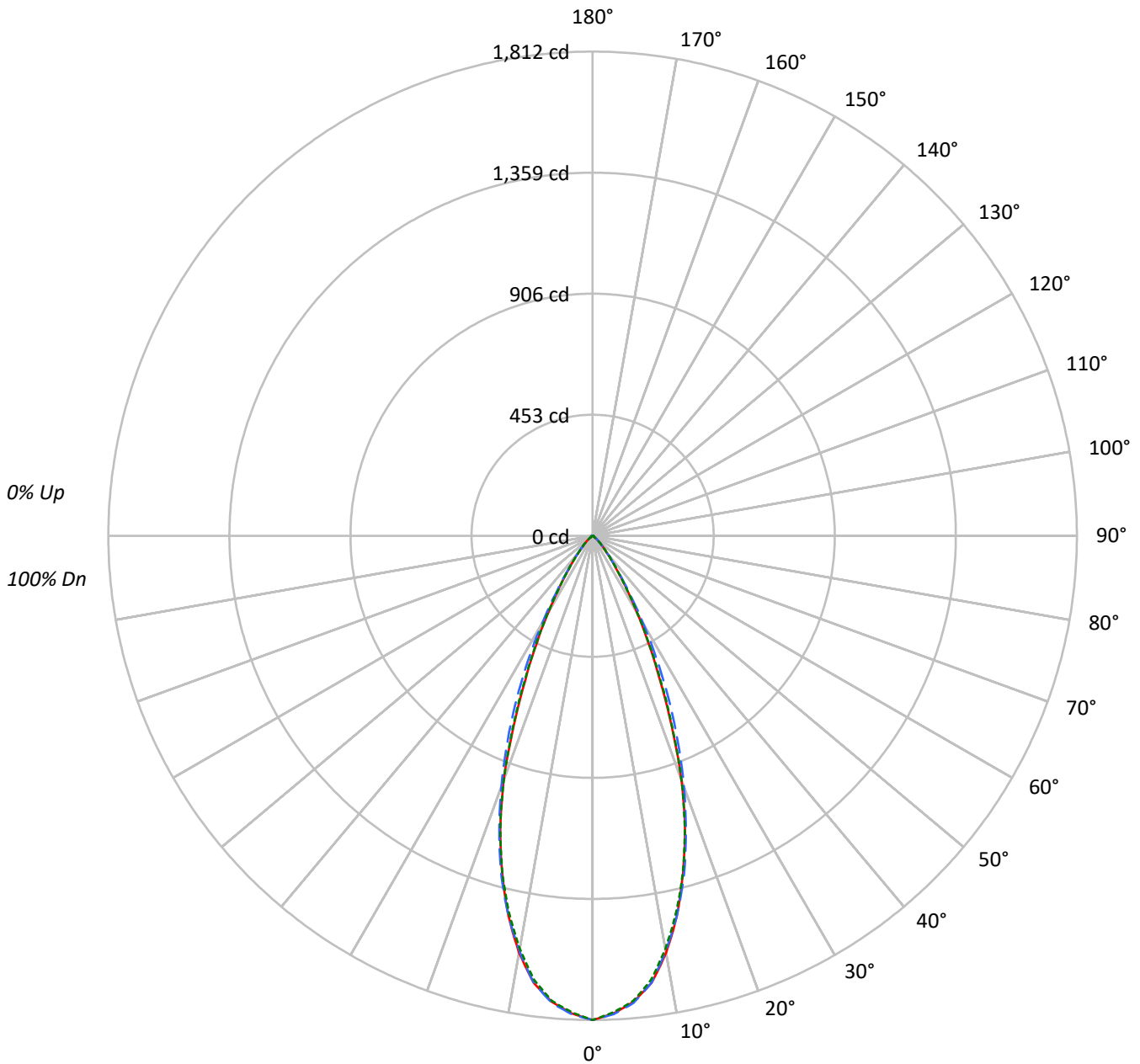
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	894070	894070	894070
5°	867176	869256	865344
10°	793791	790585	785826
15°	667673	673853	666600
20°	510586	524132	509746
25°	324223	365541	330538
30°	188566	212891	191870
35°	99678	106062	99979
40°	52618	55001	52618
45°	29444	30490	29793
50°	13739	17423	13739
55°	4989	9548	5419
60°	5723	5723	5723
65°	6187	6771	6187
70°	7645	6780	7645
75°	7053	7053	7053
80°	7387	5966	7387
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.8	16.5
10°-20°	360.2	36.6
20°-30°	290.9	29.6
30°-40°	115.0	11.7
40°-50°	35.3	3.6
50°-60°	9.1	0.9
60°-70°	5.5	0.6
70°-80°	4.0	0.4
80°-90°	1.2	0.1
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°	812.8	82.7
0°-40°	927.8	94.4
0°-60°	972.2	98.9
0°-90°	982.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1751	1754	1755	1752	1747	162
15°	1307	1311	1319	1314	1305	359
25°	596	624	672	636	607	277
35°	166	170	176	171	166	111
45°	42	43	44	43	43	34
55°	6	8	11	8	6	7
65°	5	6	6	6	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1812.2	1812.2	1812.2	1812.2	1812.2
2.5°	1789.5	1790.6	1792.1	1790.0	1784.8
5°	1751.0	1754.2	1755.2	1751.5	1747.3
7.5°	1687.8	1684.1	1687.2	1680.9	1675.6
10°	1584.5	1579.7	1578.1	1568.6	1568.6
12.5°	1456.9	1455.3	1456.4	1451.6	1444.2
15°	1307.2	1310.9	1319.3	1314.1	1305.1
17.5°	1148.5	1153.8	1161.2	1159.6	1147.5
20°	972.5	987.8	998.3	988.3	970.9
22.5°	772.2	804.9	831.8	810.7	782.2
25°	595.6	624.1	671.5	635.7	607.2
27.5°	451.7	472.3	515.5	480.2	460.7
30°	331.0	343.7	373.7	350.5	336.8
32.5°	236.7	245.6	258.3	244.6	237.7
35°	165.5	170.3	176.1	170.8	166.0
37.5°	116.5	118.1	122.3	118.1	116.0
40°	81.7	82.2	85.4	82.8	81.7
42.5°	59.0	59.0	60.6	59.6	59.0
45°	42.2	42.7	43.7	43.2	42.7
47.5°	30.0	31.1	31.1	31.6	29.5
50°	17.9	22.1	22.7	22.1	17.9
52.5°	9.5	13.2	16.3	13.2	9.5
55°	5.8	7.9	11.1	7.9	6.3
57.5°	5.8	5.8	7.4	6.3	5.8
60°	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.3	5.8	5.8	5.8	5.3
67.5°	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	4.7	5.3	5.3
72.5°	4.7	4.7	4.2	4.7	4.7
75°	3.7	3.7	3.7	3.7	3.7
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.6	2.6	2.1	2.6	2.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)