

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: P283975

Luminaire Tested: **LDA2B158030D010 EU2B15WFL558030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283975  
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: LDA2B158030D010 EU2B15WFL558030 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1216.4 lumens  
Efficiency: N/A  
Efficacy: 86.3 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

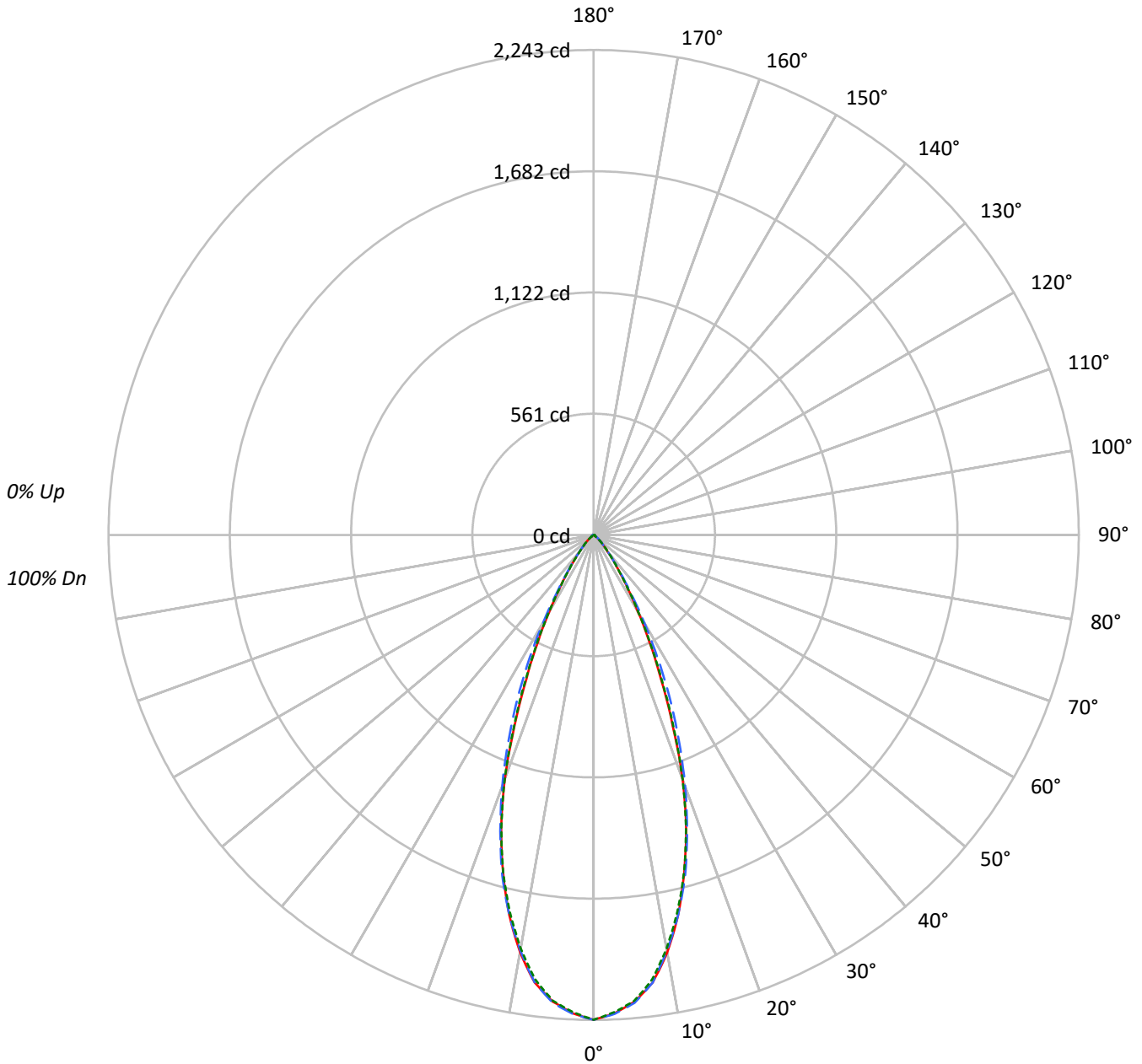
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1106413	1106413	1106413
5°	1073149	1075725	1070921
10°	982307	978400	972488
15°	826266	833927	824938
20°	631867	648615	630817
25°	401251	452367	409035
30°	233343	263479	237445
35°	123348	131238	123769
40°	65112	68075	65112
45°	36421	37747	36840
50°	17039	21491	17039
55°	6193	11784	6709
60°	7104	7104	7104
65°	7588	8405	7588
70°	9376	8511	9376
75°	8769	8769	8769
80°	9376	7387	9376
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.2	16.5
10°-20°	445.7	36.6
20°-30°	360.0	29.6
30°-40°	142.3	11.7
40°-50°	43.7	3.6
50°-60°	11.3	0.9
60°-70°	6.8	0.6
70°-80°	5.0	0.4
80°-90°	1.5	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°	1005.9	82.7
0°-40°	1148.1	94.4
0°-60°	1203.1	98.9
0°-90°	1216.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1216.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2243	2243	2243	2243	2243	
5°	2167	2171	2172	2168	2162	201
15°	1618	1622	1633	1626	1615	444
25°	737	772	831	787	751	343
35°	205	211	218	211	206	137
45°	52	53	54	54	53	43
55°	7	10	14	10	8	9
65°	6	7	7	7	6	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2242.6	2242.6	2242.6	2242.6	2242.6
2.5°	2214.5	2215.8	2217.8	2215.2	2208.7
5°	2166.9	2170.8	2172.1	2167.6	2162.4
7.5°	2088.6	2084.1	2088.0	2080.2	2073.6
10°	1960.8	1954.9	1953.0	1941.2	1941.2
12.5°	1802.9	1801.0	1802.3	1796.4	1787.3
15°	1617.7	1622.3	1632.7	1626.2	1615.1
17.5°	1421.4	1427.9	1437.0	1435.0	1420.0
20°	1203.5	1222.4	1235.4	1223.1	1201.5
22.5°	955.6	996.1	1029.3	1003.2	968.0
25°	737.1	772.3	831.0	786.7	751.4
27.5°	559.0	584.5	637.9	594.2	570.1
30°	409.6	425.3	462.5	433.8	416.8
32.5°	292.9	304.0	319.6	302.7	294.2
35°	204.8	210.7	217.9	211.3	205.5
37.5°	144.2	146.1	151.3	146.1	143.5
40°	101.1	101.8	105.7	102.4	101.1
42.5°	73.1	73.1	75.0	73.7	73.1
45°	52.2	52.8	54.1	53.5	52.8
47.5°	37.2	38.5	38.5	39.1	36.5
50°	22.2	27.4	28.0	27.4	22.2
52.5°	11.7	16.3	20.2	16.3	11.7
55°	7.2	9.8	13.7	9.8	7.8
57.5°	7.2	7.2	9.1	7.8	7.2
60°	7.2	7.2	7.2	7.2	7.2
62.5°	7.2	7.2	7.2	7.2	7.2
65°	6.5	7.2	7.2	7.2	6.5
67.5°	6.5	6.5	6.5	6.5	6.5
70°	6.5	6.5	5.9	6.5	6.5
72.5°	5.9	5.9	5.2	5.9	5.9
75°	4.6	4.6	4.6	4.6	4.6
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.3	3.3	2.6	3.3	3.3
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)