

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: P282704

Luminaire Tested: **LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282704  
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: LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1194.4 lumens  
Efficiency: N/A  
Efficacy: 84.7 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

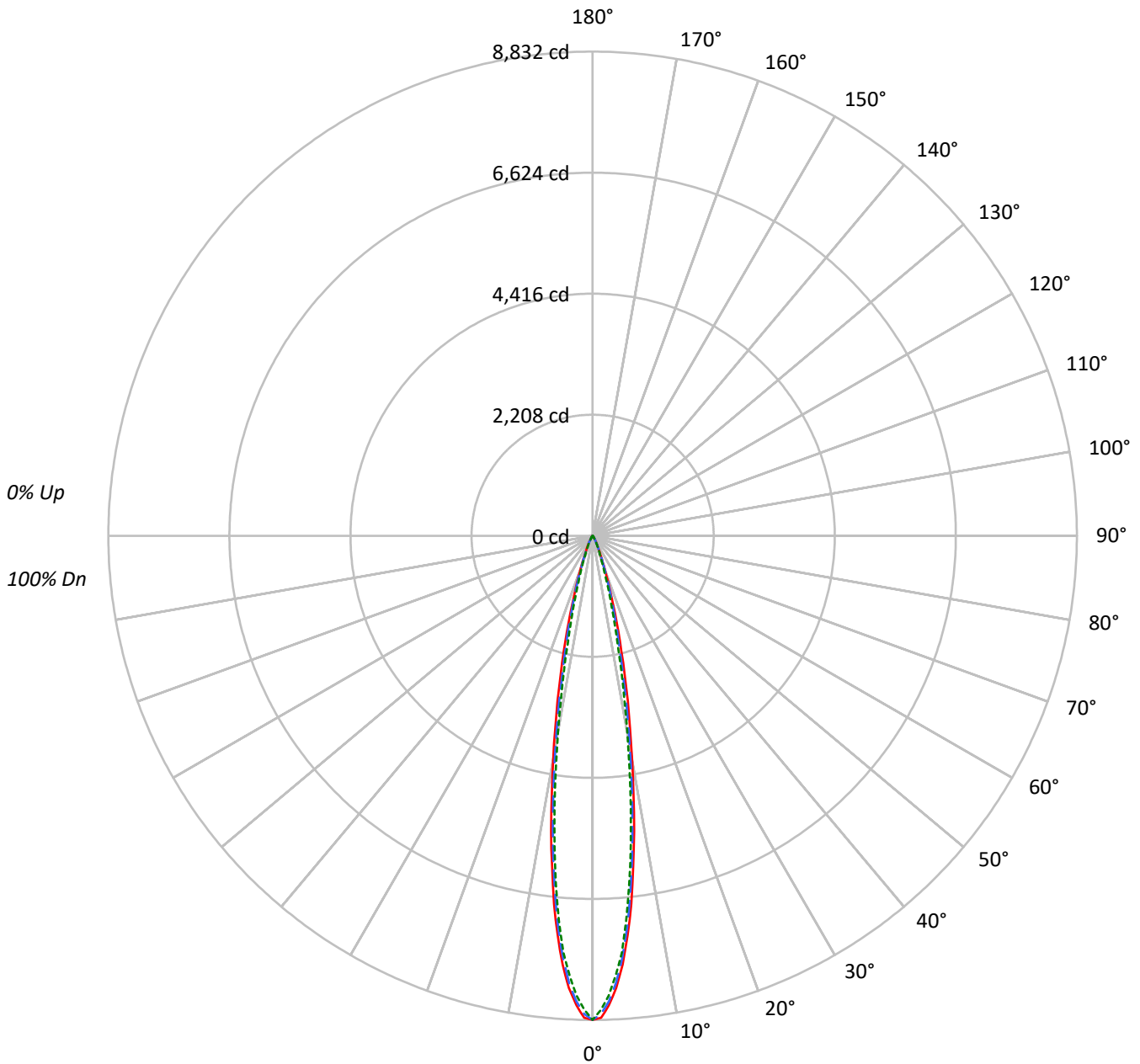
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	4357223	4357223	4357223
5°	3625649	3559187	3487376
10°	2076732	1948784	1818781
15°	923669	820341	687440
20°	335071	315067	249597
25°	128688	120141	103429
30°	55487	51613	45803
35°	26260	26260	21742
40°	13138	13589	10949
45°	7605	7117	6628
50°	5219	4682	4682
55°	4129	2925	3527
60°	3355	1973	2664
65°	2335	1634	2335
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.4	48.1
10°-20°	464.8	38.9
20°-30°	112.1	9.4
30°-40°	28.6	2.4
40°-50°	8.5	0.7
50°-60°	3.6	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1151.3	96.4
0°-40°	1179.9	98.8
0°-60°	1192.1	99.8
0°-90°	1194.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8832	8832	8832	8832	8832	
5°	7321	7254	7187	7124	7042	592
15°	1808	1766	1606	1447	1346	516
25°	236	238	221	200	190	122
35°	44	44	44	40	36	30
45°	11	11	10	10	10	9
55°	5	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
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°	8831.7	8831.7	8831.7	8831.7	8831.7
1°	8792.2	8730.9	8723.4	8761.5	8649.1
2°	8567.4	8523.8	8498.6	8521.1	8393.7
3°	8258.9	8216.6	8171.0	8171.7	8029.3
4°	7838.6	7805.2	7728.2	7705.1	7622.7
5°	7320.9	7253.5	7186.7	7124.1	7041.7
6°	6748.8	6661.6	6566.2	6472.9	6388.4
7°	6075.8	6017.9	5891.9	5764.5	5693.0
8°	5443.0	5349.7	5202.6	5043.2	4982.6
9°	4762.5	4695.8	4526.9	4341.6	4281.0
10°	4145.4	4076.0	3890.0	3683.6	3630.5
11°	3566.5	3501.1	3307.6	3091.0	3034.5
12°	3076.7	2984.1	2762.0	2574.0	2518.9
13°	2589.0	2525.7	2315.2	2129.3	2022.3
14°	2174.2	2121.8	1931.0	1767.6	1654.5
15°	1808.4	1765.5	1606.1	1446.7	1345.9
16°	1483.5	1457.0	1331.0	1177.0	1094.6
17°	1203.6	1179.1	1098.7	957.0	887.5
18°	972.0	968.6	901.8	779.2	717.2
19°	799.7	798.3	737.0	634.1	583.1
20°	638.2	647.1	600.1	510.2	475.4
21°	520.4	525.2	487.7	419.6	388.3
22°	423.7	427.1	402.6	346.7	329.7
23°	347.4	349.4	329.0	287.4	272.5
24°	286.1	287.4	269.1	239.8	226.8
25°	236.4	237.7	220.7	200.3	190.0
26°	196.2	197.5	182.5	168.2	158.0
27°	162.8	165.5	150.5	141.7	130.8
28°	139.0	139.6	126.0	120.6	110.3
29°	113.8	117.8	106.3	101.5	94.0
30°	97.4	99.4	90.6	87.2	80.4
32.5°	64.7	66.1	62.0	59.3	53.8
35°	43.6	44.3	43.6	39.5	36.1
37.5°	30.0	30.0	30.7	25.9	24.5
40°	20.4	20.4	21.1	17.7	17.0
42.5°	15.0	15.0	14.3	12.3	12.3
45°	10.9	10.9	10.2	9.5	9.5
47.5°	8.9	8.2	7.5	7.5	7.5
50°	6.8	6.8	6.1	5.4	6.1
52.5°	5.4	5.4	4.8	4.8	4.8
55°	4.8	4.1	3.4	3.4	4.1
57.5°	3.4	3.4	2.7	2.7	3.4
60°	3.4	2.7	2.0	2.7	2.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.7	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.4	1.4	2.0



(END OF REPORT)