

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: P281535

Luminaire Tested: **LDA2B158040D010 EU2B15SP158040 2LBASQC1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B158040D010 EU2B15SP158040 2LBASQC1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1515.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

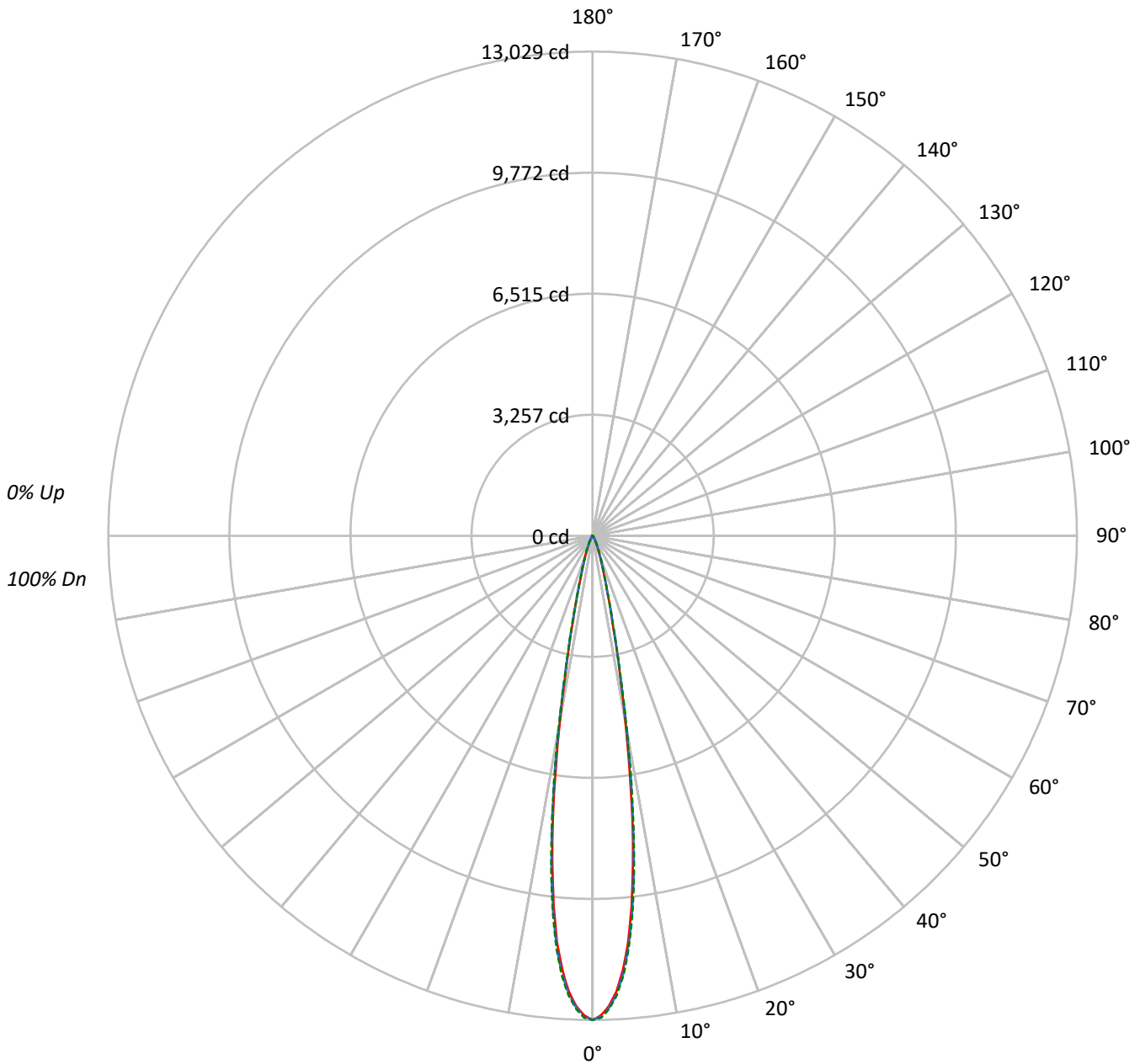
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P281535

CATALOG NUMBER: LDA2B158040D010 EU2B15SP158040 2LBASQC1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P281535

CATALOG NUMBER: LDA2B158040D010 EU2B15SP158040 2LBASQC1MW

**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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	98	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	96	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	94	94	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	90	90	90																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	89	89	89																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	87	87	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	86	86	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	84	84	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	83	83	83																

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

	0°	45°	90°
0°	6427961	6427961	6427961
5°	5440479	5497383	5521303
10°	2544090	2640477	2645587
15°	745156	755984	755627
20°	299212	299632	299999
25°	133424	146978	136581
30°	56684	77933	51670
35°	26019	36137	24212
40°	8501	14104	7535
45°	0	5093	0
50°	0	0	0
55°	2494	1290	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	4262	0	0
85°	8491	0	0



TEST NUMBER: P281535

CATALOG NUMBER: LDA2B158040D010 EU2B15SP158040 2LBASQC1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	861.0	56.8
10°-20°	488.0	32.2
20°-30°	127.4	8.4
30°-40°	32.9	2.2
40°-50°	3.2	0.2
50°-60°	1.1	0.1
60°-70°	0.2	0.0
70°-80°	1.1	0.1
80°-90°	0.3	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°	1476.5	97.5
0°-40°	1509.3	99.6
0°-60°	1513.6	99.9
0°-90°	1515.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1515.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13029	13029	13029	13029	13029	
5°	10985	11084	11100	11030	11149	850
15°	1459	1479	1480	1463	1479	479
25°	245	266	270	258	251	122
35°	43	46	60	41	40	30
45°	0	3	7	1	0	2
55°	3	4	2	1	0	2
65°	0	0	0	0	0	1
75°	0	1	0	0	0	3
85°	2	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281535

CATALOG NUMBER: LDA2B158040D010 EU2B15SP158040 2LBASQC1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13028.9	13028.9	13028.9	13028.9	13028.9
1°	12906.7	12957.9	12942.6	12924.3	12975.5
2°	12658.0	12707.7	12703.3	12679.2	12739.2
3°	12274.6	12344.1	12344.1	12308.2	12382.9
4°	11703.2	11809.3	11819.5	11769.0	11861.9
5°	10985.4	11083.5	11100.3	11030.1	11148.6
6°	10013.1	10147.0	10185.0	10103.8	10225.3
7°	8895.9	9036.4	9094.2	9003.5	9139.5
8°	7690.9	7791.9	7861.4	7757.5	7895.8
9°	6342.5	6488.1	6551.8	6450.8	6585.4
10°	5078.3	5212.1	5270.7	5246.5	5280.9
11°	3944.2	4062.7	4102.3	4069.3	4085.4
12°	3088.2	3135.8	3161.4	3139.4	3150.4
13°	2344.9	2408.5	2420.2	2410.7	2415.8
14°	1831.3	1862.0	1875.2	1870.8	1873.0
15°	1458.9	1478.6	1480.1	1463.3	1479.4
16°	1175.0	1190.4	1196.9	1179.4	1200.6
17°	962.8	975.3	982.6	965.0	973.8
18°	792.4	801.9	812.1	796.7	809.9
19°	665.1	670.9	671.6	667.2	670.9
20°	569.9	567.0	570.7	562.6	571.4
22.5°	375.3	382.6	391.4	381.9	385.6
25°	245.1	265.6	270.0	257.5	250.9
26°	201.9	228.3	240.0	220.2	199.0
27°	167.5	186.6	201.9	175.6	158.8
28°	147.1	163.2	178.5	153.6	133.9
29°	122.9	139.0	165.3	136.8	124.4
30°	99.5	111.2	136.8	103.9	90.7
32.5°	56.3	65.8	88.5	61.5	50.5
35°	43.2	46.1	60.0	41.0	40.2
37.5°	37.3	33.7	46.8	33.7	27.1
40°	13.2	19.8	21.9	14.6	11.7
42.5°	5.9	5.9	9.5	2.9	2.9
45°	0.0	2.9	7.3	0.7	0.0
47.5°	0.0	0.0	1.5	0.0	0.0
50°	0.0	1.5	0.0	0.0	0.0
52.5°	1.5	0.0	0.0	0.0	0.0
55°	2.9	3.7	1.5	0.7	0.0
57.5°	4.4	3.7	1.5	1.5	1.5
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	1.5	0.7	0.0	0.0	0.0



TEST NUMBER: P281535

CATALOG NUMBER: LDA2B158040D010 EU2B15SP158040 2LBASQC1MW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.7	0.0	0.0	0.0
77.5°	7.3	1.5	2.2	1.5	2.9
80°	1.5	0.0	0.0	0.0	0.0
82.5°	2.9	0.0	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0	0.0
87.5°	0.0	0.7	0.0	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	2.9	2.2	0.0	0.0	2.9



(END OF REPORT)