

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: P281529

Luminaire Tested: **LDA2B158030D010 EU2B15SP158030 2LBASQC1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281529
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: LDA2B158030D010 EU2B15SP158030 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: 1439.6 lumens
Efficiency: N/A
Efficacy: 102.1 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

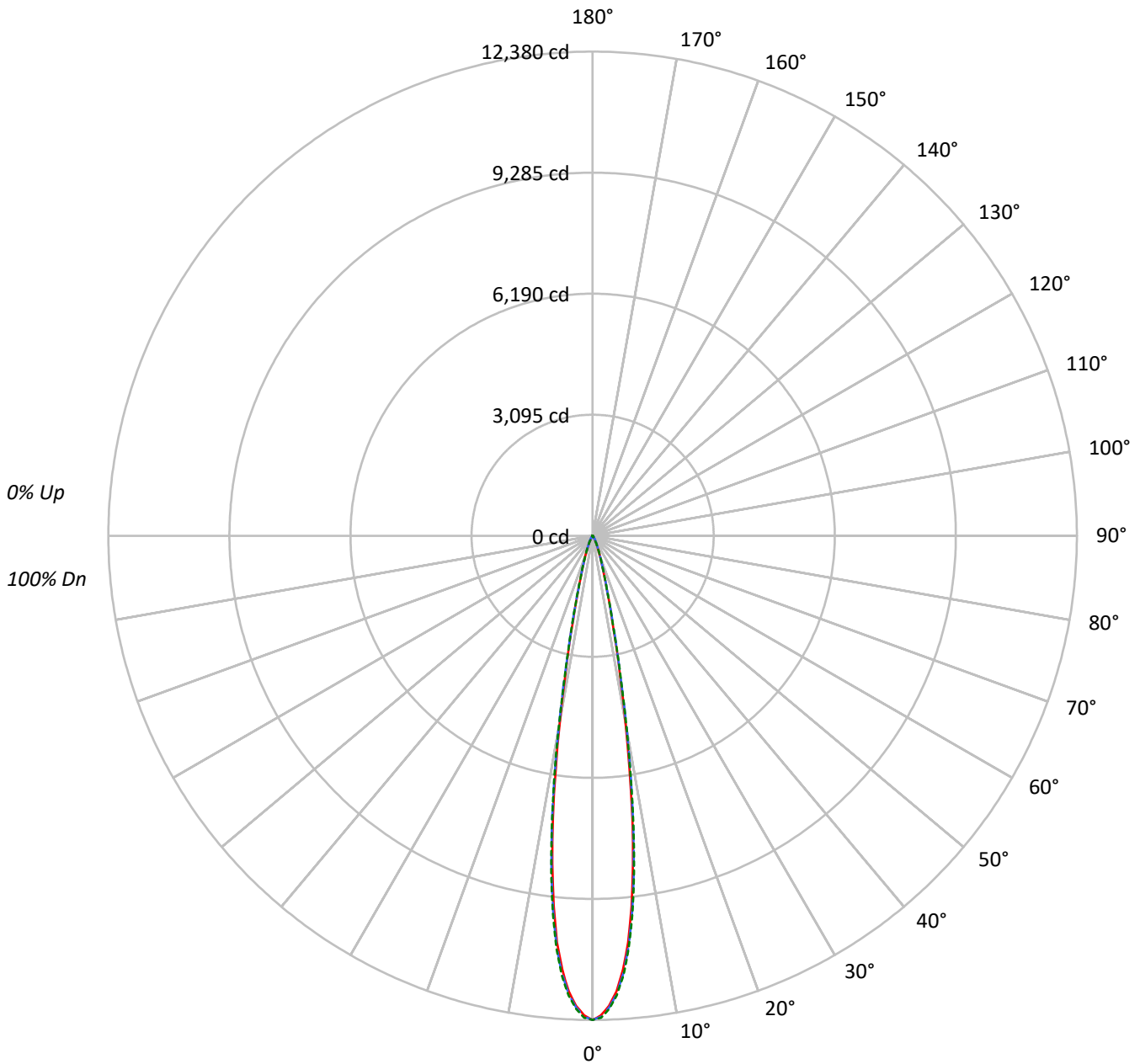
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281529

CATALOG NUMBER: LDA2B158030D010 EU2B15SP158030 2LBASQC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P281529

CATALOG NUMBER: LDA2B158030D010 EU2B15SP158030 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	97	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°	6107622	6107622	6107622
5°	5169381	5223413	5246145
10°	2417293	2508871	2513731
15°	708023	718290	717932
20°	284301	284668	285036
25°	126782	139629	129776
30°	53835	74059	49107
35°	24694	34330	23007
40°	8050	13460	7149
45°	0	4884	0
50°	0	0	0
55°	2408	1204	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3978	0	0
85°	7925	0	0



TEST NUMBER: P281529

CATALOG NUMBER: LDA2B158030D010 EU2B15SP158030 2LBASQC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.1	56.8
10°-20°	463.7	32.2
20°-30°	121.1	8.4
30°-40°	31.2	2.2
40°-50°	3.1	0.2
50°-60°	1.0	0.1
60°-70°	0.2	0.0
70°-80°	1.0	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°	1402.9	97.5
0°-40°	1434.1	99.6
0°-60°	1438.2	99.9
0°-90°	1439.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12380	12380	12380	12380	12380	
5°	10438	10531	10547	10480	10593	808
15°	1386	1405	1406	1390	1406	455
25°	233	252	256	245	238	116
35°	41	44	57	39	38	28
45°	0	3	7	1	0	2
55°	3	4	1	1	0	2
65°	0	0	0	0	0	1
75°	0	1	0	0	0	3
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281529

CATALOG NUMBER: LDA2B158030D010 EU2B15SP158030 2LBASQC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12379.6	12379.6	12379.6	12379.6	12379.6
1°	12263.5	12312.1	12297.5	12280.2	12328.8
2°	12027.1	12074.4	12070.2	12047.3	12104.3
3°	11662.8	11728.9	11728.9	11694.8	11765.7
4°	11119.9	11220.7	11230.5	11182.5	11270.8
5°	10438.0	10531.1	10547.1	10480.4	10593.0
6°	9514.1	9641.3	9677.4	9600.3	9715.7
7°	8452.6	8586.0	8640.9	8554.7	8684.0
8°	7307.6	7403.5	7469.6	7370.9	7502.3
9°	6026.4	6164.8	6225.2	6129.3	6257.2
10°	4825.2	4952.4	5008.0	4985.1	5017.7
11°	3747.7	3860.3	3897.8	3866.5	3881.8
12°	2934.3	2979.5	3003.8	2983.0	2993.4
13°	2228.0	2288.5	2299.6	2290.6	2295.4
14°	1740.0	1769.2	1781.7	1777.5	1779.6
15°	1386.2	1404.9	1406.3	1390.3	1405.6
16°	1116.4	1131.0	1137.3	1120.6	1140.8
17°	914.8	926.7	933.6	916.9	925.3
18°	752.9	761.9	771.6	757.0	769.6
19°	631.9	637.5	638.2	634.0	637.5
20°	541.5	538.8	542.2	534.6	542.9
22.5°	356.6	363.6	371.9	362.9	366.4
25°	232.9	252.3	256.5	244.7	238.4
26°	191.9	216.9	228.0	209.2	189.1
27°	159.2	177.3	191.9	166.8	150.9
28°	139.7	155.0	169.6	146.0	127.2
29°	116.8	132.1	157.1	130.0	118.2
30°	94.5	105.7	130.0	98.7	86.2
32.5°	53.5	62.6	84.1	58.4	48.0
35°	41.0	43.8	57.0	38.9	38.2
37.5°	35.5	32.0	44.5	32.0	25.7
40°	12.5	18.8	20.9	13.9	11.1
42.5°	5.6	5.6	9.0	2.8	2.8
45°	0.0	2.8	7.0	0.7	0.0
47.5°	0.0	0.0	1.4	0.0	0.0
50°	0.0	1.4	0.0	0.0	0.0
52.5°	1.4	0.0	0.0	0.0	0.0
55°	2.8	3.5	1.4	0.7	0.0
57.5°	4.2	3.5	1.4	1.4	1.4
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°	1.4	0.7	0.0	0.0	0.0



TEST NUMBER: P281529

CATALOG NUMBER: LDA2B158030D010 EU2B15SP158030 2LBASQC1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.7	0.0	0.0	0.0
77.5°	7.0	1.4	2.1	1.4	2.8
80°	1.4	0.0	0.0	0.0	0.0
82.5°	2.8	0.0	0.0	0.0	0.0
85°	1.4	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°	2.8	2.1	0.0	0.0	2.8



(END OF REPORT)