

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: P281564

Luminaire Tested: **LDA2B159730D010 EU2B15SP159730 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281564
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: LDA2B159730D010 EU2B15SP159730 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1065.8 lumens
Efficiency: N/A
Efficacy: 75.6 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

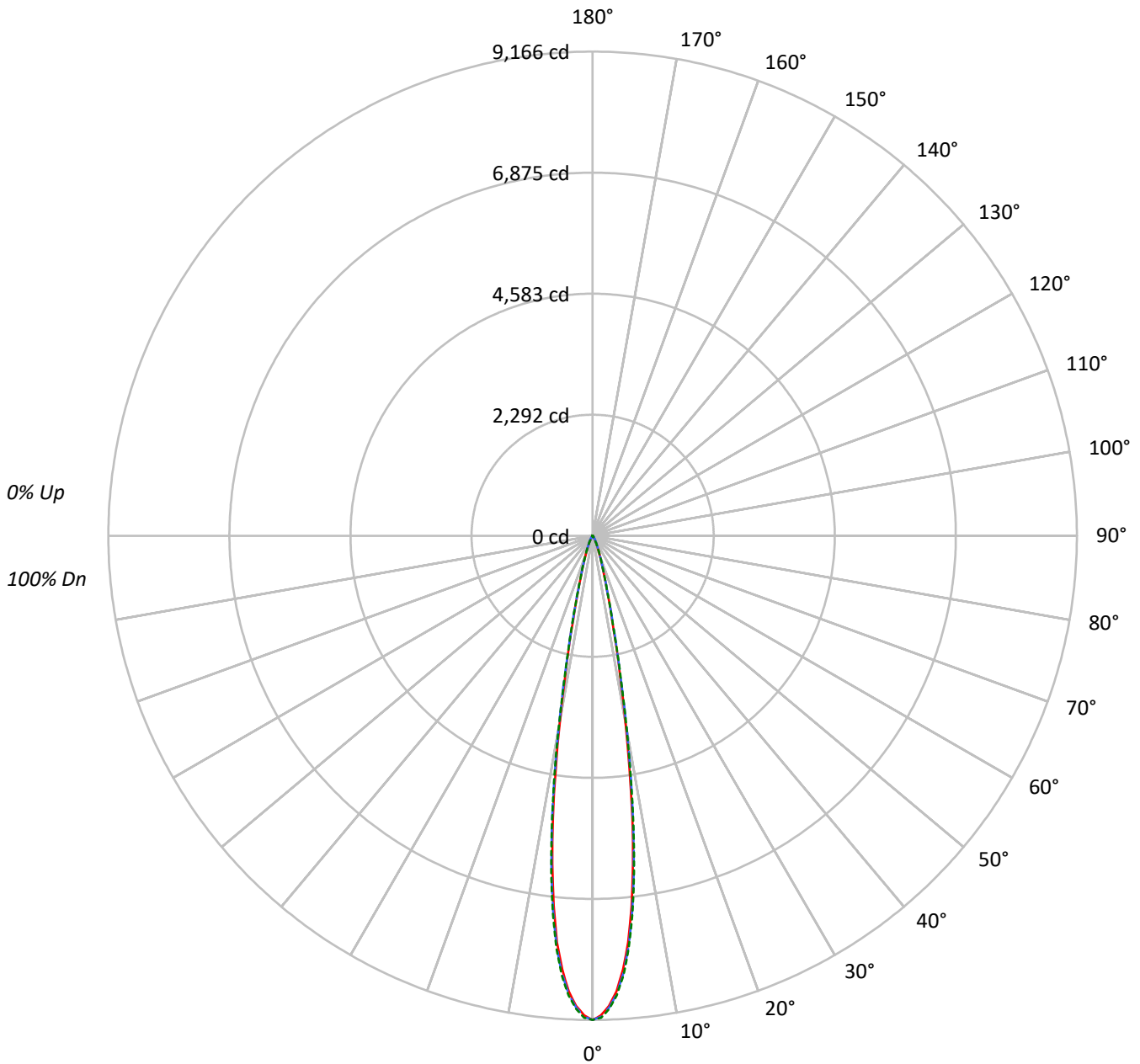
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281564

CATALOG NUMBER: LDA2B159730D010 EU2B15SP159730 2LBASQC1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P281564

CATALOG NUMBER: LDA2B159730D010 EU2B15SP159730 2LBASQC1MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4521907	4521907	4521907
5°	3827264	3867280	3884069
10°	1789675	1857507	1861114
15°	524199	531809	531554
20°	210482	210797	211060
25°	93848	103375	96080
30°	39878	54804	36346
35°	18309	25416	17045
40°	5990	9918	5281
45°	0	3558	0
50°	0	0	0
55°	1806	860	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2841	0	0
85°	5661	0	0



TEST NUMBER: P281564

CATALOG NUMBER: LDA2B159730D010 EU2B15SP159730 2LBASQC1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.7	56.8
10°-20°	343.3	32.2
20°-30°	89.7	8.4
30°-40°	23.1	2.2
40°-50°	2.3	0.2
50°-60°	0.7	0.1
60°-70°	0.1	0.0
70°-80°	0.8	0.1
80°-90°	0.2	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°	1038.7	97.5
0°-40°	1061.8	99.6
0°-60°	1064.8	99.9
0°-90°	1065.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9166	9166	9166	9166	9166	
5°	7728	7797	7809	7759	7843	598
15°	1026	1040	1041	1029	1041	337
25°	172	187	190	181	176	86
35°	30	32	42	29	28	21
45°	0	2	5	0	0	2
55°	2	3	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281564

CATALOG NUMBER: LDA2B159730D010 EU2B15SP159730 2LBASQC1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9165.5	9165.5	9165.5	9165.5	9165.5
1°	9079.5	9115.6	9104.8	9091.9	9127.9
2°	8904.5	8939.5	8936.5	8919.5	8961.7
3°	8634.8	8683.7	8683.7	8658.5	8711.0
4°	8232.9	8307.5	8314.7	8279.2	8344.6
5°	7728.0	7796.9	7808.8	7759.4	7842.7
6°	7044.0	7138.1	7164.9	7107.8	7193.2
7°	6258.0	6356.9	6397.5	6333.7	6429.4
8°	5410.4	5481.4	5530.3	5457.2	5554.5
9°	4461.8	4564.2	4609.0	4538.0	4632.7
10°	3572.4	3666.6	3707.8	3690.8	3715.0
11°	2774.7	2858.0	2885.8	2862.7	2874.0
12°	2172.5	2205.9	2223.9	2208.5	2216.2
13°	1649.6	1694.3	1702.6	1695.9	1699.5
14°	1288.3	1309.9	1319.1	1316.0	1317.6
15°	1026.3	1040.2	1041.2	1029.4	1040.7
16°	826.6	837.4	842.0	829.7	844.6
17°	677.3	686.1	691.2	678.9	685.0
18°	557.4	564.1	571.3	560.5	569.8
19°	467.8	472.0	472.5	469.4	472.0
20°	400.9	398.9	401.5	395.8	402.0
22.5°	264.0	269.2	275.4	268.7	271.2
25°	172.4	186.8	189.9	181.2	176.5
26°	142.1	160.6	168.8	154.9	140.0
27°	117.9	131.2	142.1	123.5	111.7
28°	103.5	114.8	125.6	108.1	94.2
29°	86.5	97.8	116.3	96.2	87.5
30°	70.0	78.2	96.2	73.1	63.8
32.5°	39.6	46.3	62.3	43.2	35.5
35°	30.4	32.4	42.2	28.8	28.3
37.5°	26.2	23.7	32.9	23.7	19.0
40°	9.3	13.9	15.4	10.3	8.2
42.5°	4.1	4.1	6.7	2.1	2.1
45°	0.0	2.1	5.1	0.5	0.0
47.5°	0.0	0.0	1.0	0.0	0.0
50°	0.0	1.0	0.0	0.0	0.0
52.5°	1.0	0.0	0.0	0.0	0.0
55°	2.1	2.6	1.0	0.5	0.0
57.5°	3.1	2.6	1.0	1.0	1.0
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°	1.0	0.5	0.0	0.0	0.0



TEST NUMBER: P281564

CATALOG NUMBER: LDA2B159730D010 EU2B15SP159730 2LBASQC1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.5	0.0	0.0	0.0
77.5°	5.1	1.0	1.5	1.0	2.1
80°	1.0	0.0	0.0	0.0	0.0
82.5°	2.1	0.0	0.0	0.0	0.0
85°	1.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	0.0	0.5	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°	2.1	1.5	0.0	0.0	2.1



(END OF REPORT)