

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: P283703

Luminaire Tested: **LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 885.4 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

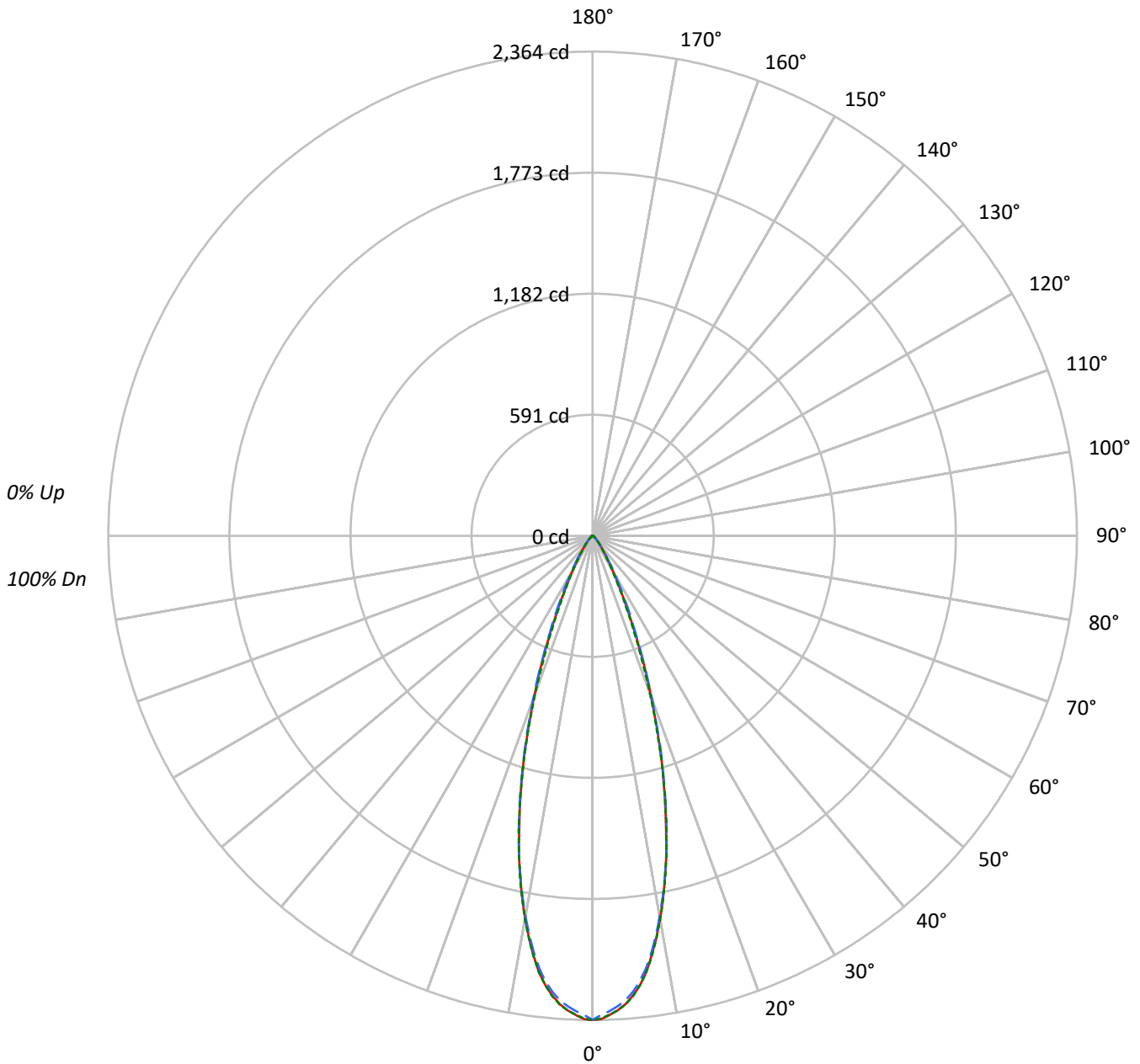
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283703

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283703

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MW

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	68	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1166406	1166406	1166406
5°	1116285	1107916	1117969
10°	950996	945035	951998
15°	700924	705521	703222
20°	437556	445641	427948
25°	226020	242514	214697
30°	108354	124191	103284
35°	55952	61915	52338
40°	31365	32975	29755
45°	19048	19048	18350
50°	9901	12204	9901
55°	5161	8085	5591
60°	5920	5920	5920
65°	6421	6421	6421
70°	7934	7212	7934
75°	7625	7625	7625
80°	7103	7103	7103
85°	5661	5661	5661



TEST NUMBER: P283703

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	23.0
10°-20°	373.5	42.2
20°-30°	202.5	22.9
30°-40°	65.0	7.3
40°-50°	22.2	2.5
50°-60°	7.8	0.9
60°-70°	5.7	0.6
70°-80°	4.2	0.5
80°-90°	1.2	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°	779.4	88.0
0°-40°	844.4	95.4
0°-60°	874.4	98.8
0°-90°	885.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2364	2364	2364	2364	2364	
5°	2254	2240	2237	2259	2257	204
15°	1372	1384	1381	1388	1377	372
25°	415	434	446	415	394	199
35°	93	97	103	93	87	63
45°	27	28	27	27	26	22
55°	6	8	9	8	6	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283703

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2364.2	2364.2	2364.2	2364.2	2364.2
1°	2360.3	2343.4	2340.9	2362.7	2357.8
2°	2341.4	2325.5	2323.0	2344.9	2340.4
3°	2320.5	2306.1	2301.2	2324.0	2321.0
4°	2292.7	2279.3	2274.8	2297.7	2295.2
5°	2254.0	2240.1	2237.1	2259.4	2257.4
6°	2206.3	2194.9	2189.4	2211.8	2207.8
7°	2146.7	2136.3	2130.3	2146.7	2148.7
8°	2069.2	2064.2	2057.3	2073.7	2073.7
9°	1986.8	1982.3	1974.8	1989.7	1989.7
10°	1898.3	1895.4	1886.4	1900.3	1900.3
11°	1801.5	1800.0	1793.5	1805.0	1805.0
12°	1699.7	1703.1	1697.2	1707.1	1703.6
13°	1597.8	1596.4	1596.9	1604.3	1598.8
14°	1482.6	1491.6	1493.0	1497.5	1489.1
15°	1372.3	1383.8	1381.3	1387.7	1376.8
16°	1259.6	1272.5	1272.0	1273.5	1263.1
17°	1154.3	1161.8	1162.3	1160.8	1147.8
18°	1042.1	1052.5	1052.5	1050.0	1034.6
19°	932.3	940.2	945.7	940.2	922.4
20°	833.4	838.9	848.8	834.9	815.1
21°	738.6	743.5	752.0	735.6	713.7
22°	647.7	654.1	662.1	643.2	620.4
23°	562.7	577.6	580.6	554.8	535.4
24°	484.8	501.7	506.6	480.3	459.9
25°	415.2	434.1	445.5	414.7	394.4
26°	355.1	373.5	387.4	356.6	337.3
27°	302.5	321.9	336.3	307.5	289.1
28°	257.3	276.2	291.1	264.2	246.9
29°	223.5	234.4	249.3	227.0	211.1
30°	190.2	202.2	218.0	195.2	181.3
32.5°	130.6	137.1	149.5	135.6	124.7
35°	92.9	96.9	102.8	93.4	86.9
37.5°	66.1	68.0	71.5	66.1	62.6
40°	48.7	49.7	51.2	48.2	46.2
42.5°	36.3	36.8	36.8	35.8	34.8
45°	27.3	27.8	27.3	27.3	26.3
47.5°	19.9	21.4	20.9	20.9	19.4
50°	12.9	15.9	15.9	15.4	12.9
52.5°	7.9	10.9	12.4	10.9	8.4
55°	6.0	7.5	9.4	7.5	6.5
57.5°	6.0	6.0	7.0	6.0	6.0
60°	6.0	6.0	6.0	6.0	6.0



TEST NUMBER: P283703

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	5.0	5.5	5.5
72.5°	5.0	5.0	4.5	5.0	4.5
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	6.0	6.0	6.0	6.0	6.0
65°	5.5	6.0	5.5	6.0	5.5



(END OF REPORT)