

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: P283702

Luminaire Tested: **LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283702  
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 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 927.3 lumens  
Efficiency: N/A  
Efficacy: 65.8 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

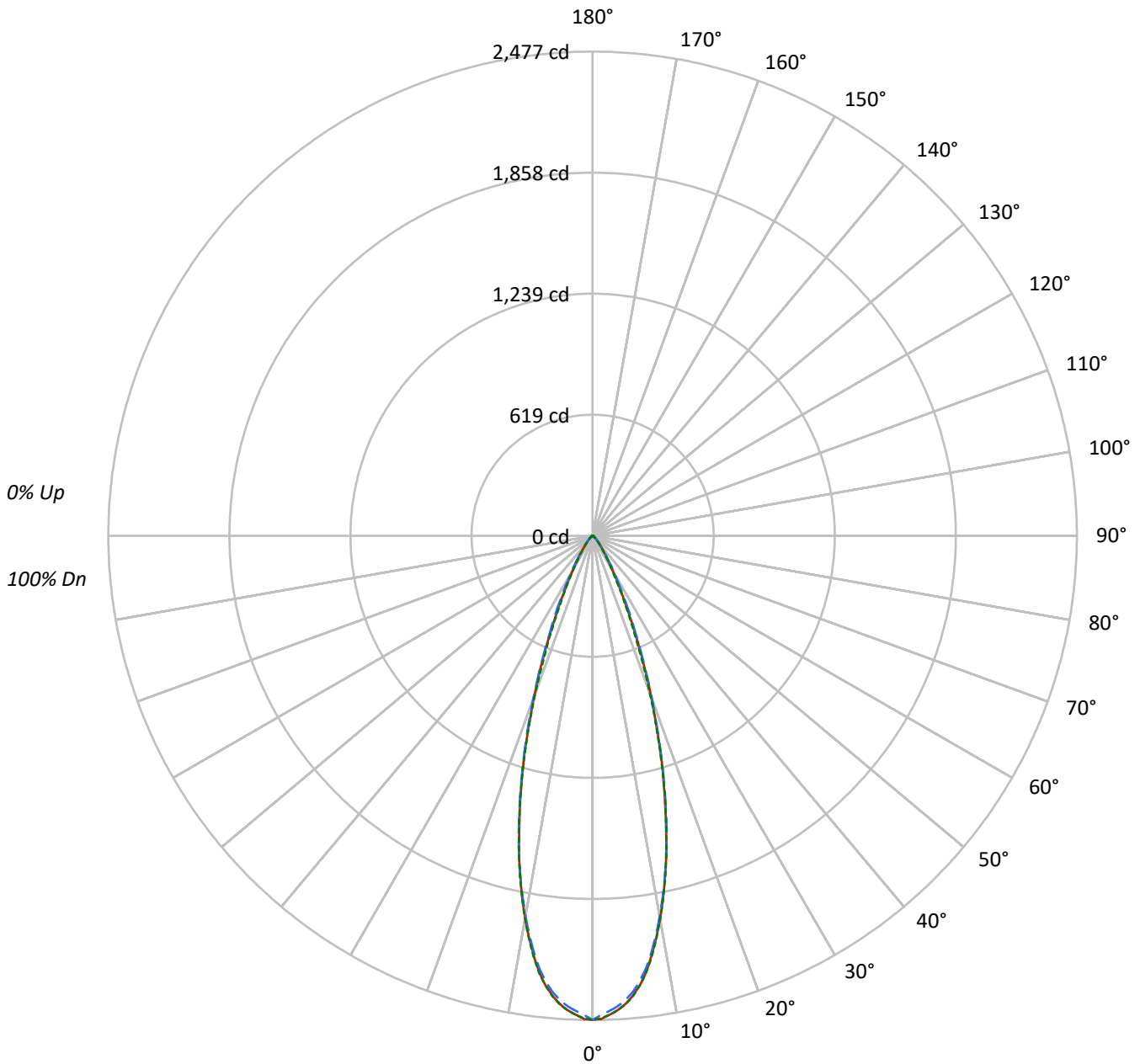
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P283702

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P283702

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MMS

**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	75	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	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	1221909	1221909	1221909
5°	1169376	1160610	1171159
10°	996234	989972	997286
15°	734277	739078	736677
20°	458399	466852	448266
25°	236799	254055	224877
30°	113538	130116	108183
35°	58602	64866	54868
40°	32846	34520	31171
45°	19955	19955	19257
50°	10362	12741	10362
55°	5333	8515	5849
60°	6118	6118	6118
65°	6654	6654	6654
70°	8222	7501	8222
75°	8006	8006	8006
80°	7387	7387	7387
85°	5661	5661	5661



TEST NUMBER: P283702

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.0	23.0
10°-20°	391.3	42.2
20°-30°	212.1	22.9
30°-40°	68.1	7.3
40°-50°	23.2	2.5
50°-60°	8.1	0.9
60°-70°	5.9	0.6
70°-80°	4.3	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°	816.5	88.0
0°-40°	884.6	95.4
0°-60°	915.9	98.8
0°-90°	927.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2477	2477	2477	2477	2477	
5°	2361	2347	2344	2367	2365	214
15°	1438	1450	1447	1454	1442	390
25°	435	455	467	434	413	208
35°	97	102	108	98	91	66
45°	29	29	29	29	28	23
55°	6	8	10	8	7	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: P283702

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2476.7	2476.7	2476.7	2476.7	2476.7
1°	2472.5	2454.8	2452.2	2475.1	2469.9
2°	2452.8	2436.1	2433.5	2456.4	2451.7
3°	2430.9	2415.8	2410.6	2434.5	2431.4
4°	2401.8	2387.7	2383.0	2407.0	2404.4
5°	2361.2	2346.6	2343.5	2366.9	2364.8
6°	2311.2	2299.3	2293.5	2316.9	2312.8
7°	2248.8	2237.9	2231.6	2248.8	2250.9
8°	2167.6	2162.4	2155.1	2172.3	2172.3
9°	2081.2	2076.6	2068.8	2084.4	2084.4
10°	1988.6	1985.5	1976.1	1990.7	1990.7
11°	1887.2	1885.6	1878.8	1890.8	1890.8
12°	1780.5	1784.1	1777.9	1788.3	1784.7
13°	1673.8	1672.3	1672.8	1680.6	1674.9
14°	1553.1	1562.5	1564.1	1568.7	1559.9
15°	1437.6	1449.6	1447.0	1453.8	1442.3
16°	1319.5	1333.0	1332.5	1334.1	1323.2
17°	1209.2	1217.0	1217.5	1216.0	1202.4
18°	1091.6	1102.5	1102.5	1099.9	1083.8
19°	976.6	985.0	990.7	985.0	966.2
20°	873.1	878.8	889.2	874.6	853.8
21°	773.7	778.9	787.8	770.6	747.7
22°	678.5	685.3	693.6	673.8	649.9
23°	589.5	605.1	608.2	581.2	560.9
24°	507.8	525.5	530.7	503.1	481.8
25°	435.0	454.8	466.7	434.5	413.1
26°	372.0	391.3	405.8	373.6	353.3
27°	316.9	337.2	352.3	322.1	302.8
28°	269.5	289.3	304.9	276.8	258.6
29°	234.1	245.6	261.2	237.8	221.1
30°	199.3	211.8	228.4	204.5	189.9
32.5°	136.8	143.6	156.6	142.0	130.6
35°	97.3	101.5	107.7	97.8	91.1
37.5°	69.2	71.3	74.9	69.2	65.6
40°	51.0	52.0	53.6	50.5	48.4
42.5°	38.0	38.5	38.5	37.5	36.4
45°	28.6	29.1	28.6	28.6	27.6
47.5°	20.8	22.4	21.9	21.9	20.3
50°	13.5	16.6	16.6	16.1	13.5
52.5°	8.3	11.4	13.0	11.4	8.8
55°	6.2	7.8	9.9	7.8	6.8
57.5°	6.2	6.2	7.3	6.2	6.2
60°	6.2	6.2	6.2	6.2	6.2



TEST NUMBER: P283702

CATALOG NUMBER: LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MMS

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.2	5.7	5.7
72.5°	5.2	5.2	4.7	5.2	4.7
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.6	1.6	1.6	2.1	1.6
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°	6.2	6.2	6.2	6.2	6.2
65°	5.7	6.2	5.7	6.2	5.7



(END OF REPORT)