

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: P283684

Luminaire Tested: **LDA2B159040D010 EU2B15FL409040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283684  
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: LDA2B159040D010 EU2B15FL409040 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: 1071.2 lumens  
Efficiency: N/A  
Efficacy: 76.0 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

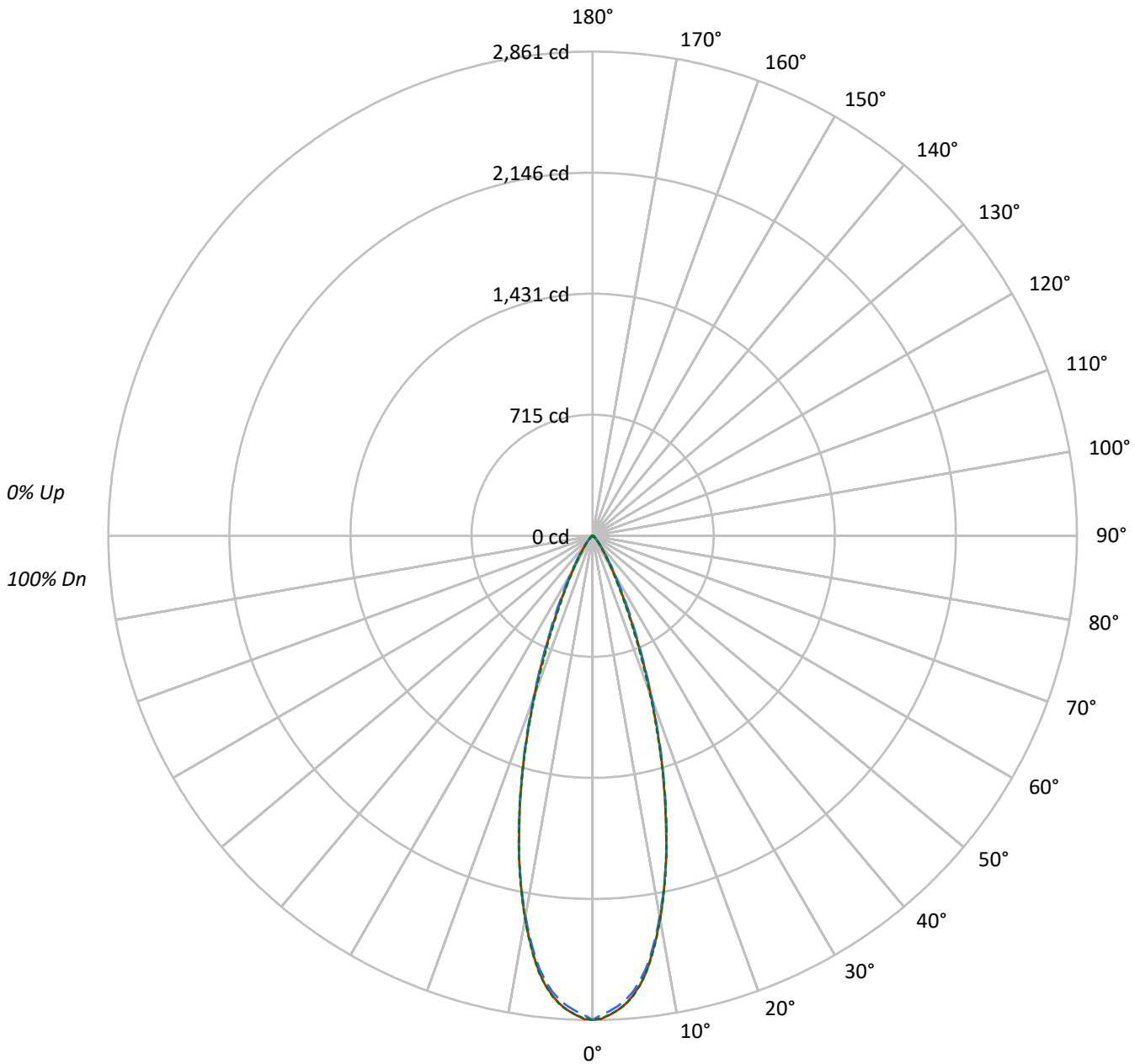
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	1411409	1411409	1411409
5°	1350735	1340582	1352815
10°	1150734	1143520	1151987
15°	848178	853694	850936
20°	529487	539253	517832
25°	273489	293467	259771
30°	131142	150283	124989
35°	67697	74924	63360
40°	37934	39866	36002
45°	23094	23094	22257
50°	11974	14737	11974
55°	6193	9806	6709
60°	7104	7104	7104
65°	7705	7705	7705
70°	9520	8655	9520
75°	9150	9150	9150
80°	8523	8523	8523
85°	6793	6793	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.1	23.0
10°-20°	452.0	42.2
20°-30°	245.0	22.9
30°-40°	78.7	7.3
40°-50°	26.8	2.5
50°-60°	9.4	0.9
60°-70°	6.8	0.6
70°-80°	5.0	0.5
80°-90°	1.4	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°	943.1	88.0
0°-40°	1021.8	95.4
0°-60°	1058.0	98.8
0°-90°	1071.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2861	2861	2861	2861	2861	
5°	2727	2710	2707	2734	2732	247
15°	1661	1674	1671	1679	1666	450
25°	502	525	539	502	477	241
35°	112	117	124	113	105	76
45°	33	34	33	33	32	26
55°	7	9	11	9	8	8
65°	7	7	7	7	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2860.8	2860.8	2860.8	2860.8	2860.8
1°	2856.0	2835.5	2832.5	2859.0	2853.0
2°	2833.1	2813.9	2810.9	2837.4	2831.9
3°	2807.9	2790.5	2784.5	2812.1	2808.5
4°	2774.2	2758.0	2752.6	2780.3	2777.3
5°	2727.4	2710.5	2706.9	2734.0	2731.6
6°	2669.7	2655.8	2649.2	2676.3	2671.5
7°	2597.6	2584.9	2577.7	2597.6	2600.0
8°	2503.8	2497.8	2489.4	2509.2	2509.2
9°	2404.0	2398.6	2389.6	2407.6	2407.6
10°	2297.0	2293.4	2282.6	2299.5	2299.5
11°	2179.9	2178.0	2170.2	2184.1	2184.1
12°	2056.6	2060.9	2053.6	2065.7	2061.5
13°	1933.4	1931.6	1932.2	1941.3	1934.6
14°	1794.0	1804.8	1806.6	1812.0	1801.8
15°	1660.6	1674.4	1671.4	1679.2	1666.0
16°	1524.2	1539.8	1539.2	1541.0	1528.4
17°	1396.7	1405.8	1406.4	1404.6	1388.9
18°	1260.9	1273.5	1273.5	1270.5	1251.9
19°	1128.1	1137.7	1144.3	1137.7	1116.1
20°	1008.5	1015.1	1027.1	1010.3	986.3
21°	893.7	899.7	909.9	890.1	863.6
22°	783.7	791.5	801.1	778.3	750.7
23°	680.9	699.0	702.6	671.3	647.9
24°	586.6	607.0	613.0	581.2	556.5
25°	502.4	525.3	539.1	501.8	477.2
26°	429.7	452.0	468.8	431.5	408.1
27°	366.0	389.5	406.9	372.0	349.8
28°	311.3	334.2	352.2	319.7	298.7
29°	270.5	283.7	301.7	274.7	255.4
30°	230.2	244.6	263.8	236.2	219.4
32.5°	158.1	165.9	180.9	164.1	150.9
35°	112.4	117.2	124.4	113.0	105.2
37.5°	79.9	82.3	86.5	79.9	75.7
40°	58.9	60.1	61.9	58.3	55.9
42.5°	43.9	44.5	44.5	43.3	42.1
45°	33.1	33.7	33.1	33.1	31.9
47.5°	24.0	25.8	25.2	25.2	23.4
50°	15.6	19.2	19.2	18.6	15.6
52.5°	9.6	13.2	15.0	13.2	10.2
55°	7.2	9.0	11.4	9.0	7.8
57.5°	7.2	7.2	8.4	7.2	7.2
60°	7.2	7.2	7.2	7.2	7.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	6.6	6.6	6.6	6.6	6.6
70°	6.6	6.6	6.0	6.6	6.6
72.5°	6.0	6.0	5.4	6.0	5.4
75°	4.8	4.8	4.8	4.8	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	3.0	3.0	3.0	3.0	3.0
82.5°	1.8	1.8	1.8	2.4	1.8
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	7.2	7.2	7.2	7.2	7.2
65°	6.6	7.2	6.6	7.2	6.6



(END OF REPORT)