

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: P283686

Luminaire Tested: **LDA2B159040D010 EU2B15FL409040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283686
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 984.9 lumens
Efficiency: N/A
Efficacy: 69.9 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

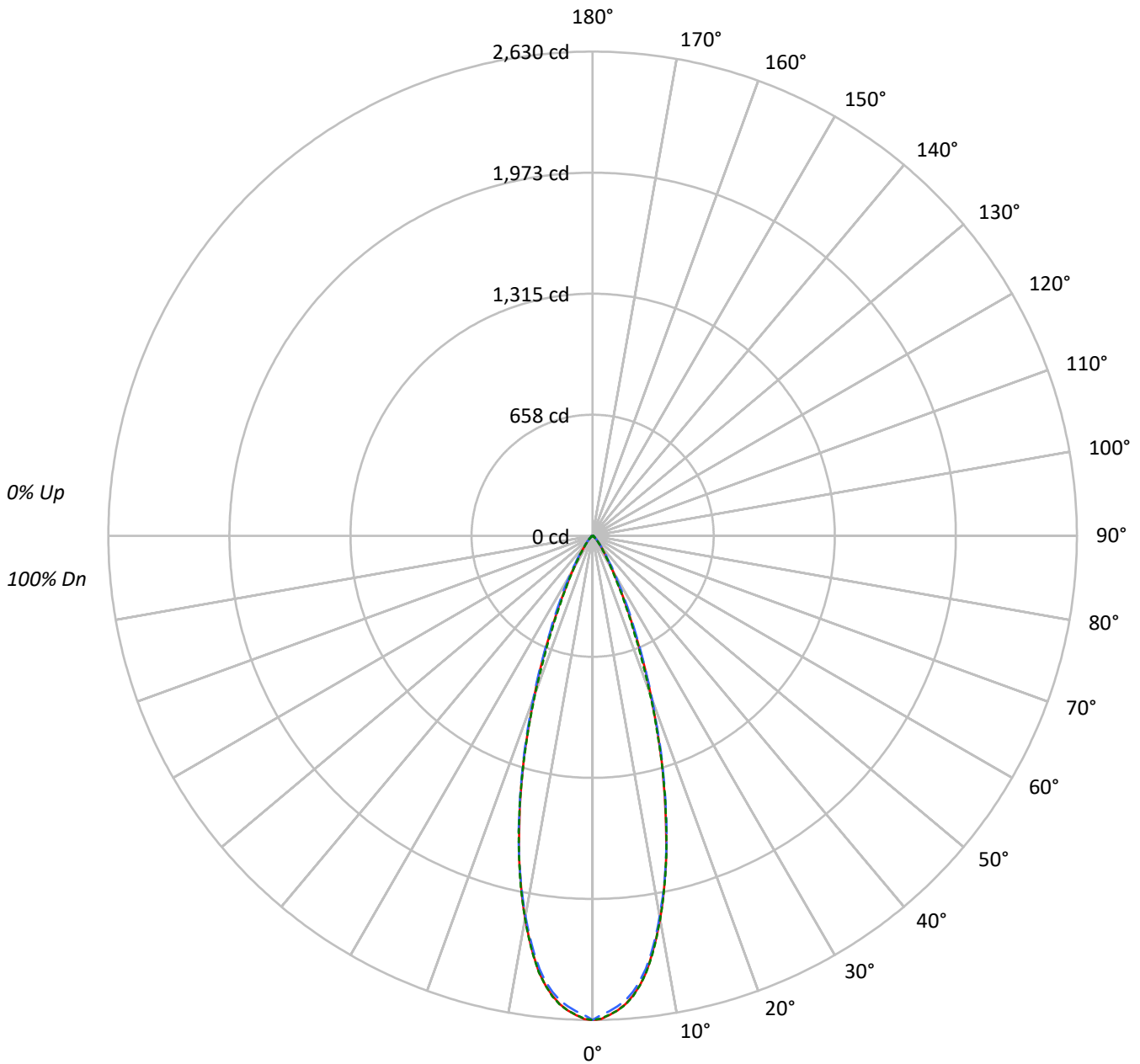
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1297640	1297640	1297640
5°	1241880	1232569	1243762
10°	1058004	1051391	1059106
15°	779837	784894	782340
20°	486803	495781	476092
25°	251442	269841	238813
30°	120545	138206	114905
35°	62216	68901	58241
40°	34907	36646	33104
45°	21211	21211	20443
50°	11052	13585	11052
55°	5677	9032	6193
60°	6512	6512	6512
65°	7121	7121	7121
70°	8799	7934	8799
75°	8387	8387	8387
80°	7955	7955	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	23.0
10°-20°	415.6	42.2
20°-30°	225.3	22.9
30°-40°	72.3	7.3
40°-50°	24.7	2.5
50°-60°	8.6	0.9
60°-70°	6.3	0.6
70°-80°	4.6	0.5
80°-90°	1.3	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°	867.1	88.0
0°-40°	939.4	95.4
0°-60°	972.7	98.8
0°-90°	984.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2630	2630	2630	2630	2630	
5°	2508	2492	2489	2514	2511	227
15°	1527	1540	1537	1544	1532	414
25°	462	483	496	461	439	221
35°	103	108	114	104	97	70
45°	30	31	30	30	29	24
55°	7	8	10	8	7	7
65°	6	7	6	7	6	6
75°	4	4	4	4	4	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°	2630.2	2630.2	2630.2	2630.2	2630.2
1°	2625.8	2607.0	2604.3	2628.6	2623.1
2°	2604.8	2587.1	2584.4	2608.7	2603.7
3°	2581.6	2565.6	2560.1	2585.5	2582.2
4°	2550.7	2535.8	2530.8	2556.2	2553.4
5°	2507.6	2492.1	2488.8	2513.6	2511.4
6°	2454.5	2441.8	2435.7	2460.6	2456.2
7°	2388.2	2376.6	2370.0	2388.2	2390.4
8°	2302.0	2296.5	2288.8	2307.0	2307.0
9°	2210.3	2205.3	2197.0	2213.6	2213.6
10°	2111.9	2108.6	2098.7	2114.1	2114.1
11°	2004.2	2002.5	1995.3	2008.0	2008.0
12°	1890.9	1894.8	1888.1	1899.2	1895.3
13°	1777.6	1776.0	1776.5	1784.8	1778.7
14°	1649.4	1659.4	1661.0	1666.0	1656.6
15°	1526.8	1539.5	1536.7	1543.9	1531.7
16°	1401.3	1415.7	1415.1	1416.8	1405.2
17°	1284.2	1292.5	1293.0	1291.4	1277.0
18°	1159.3	1170.9	1170.9	1168.1	1151.0
19°	1037.2	1046.0	1052.1	1046.0	1026.1
20°	927.2	933.3	944.3	928.9	906.8
21°	821.7	827.2	836.6	818.4	794.0
22°	720.6	727.7	736.6	715.6	690.2
23°	626.1	642.6	646.0	617.2	595.7
24°	539.3	558.1	563.6	534.3	511.7
25°	461.9	482.9	495.7	461.4	438.7
26°	395.1	415.5	431.0	396.7	375.2
27°	336.5	358.1	374.1	342.0	321.6
28°	286.2	307.2	323.8	294.0	274.6
29°	248.7	260.8	277.4	252.5	234.8
30°	211.6	224.9	242.6	217.2	201.7
32.5°	145.3	152.5	166.3	150.9	138.7
35°	103.3	107.8	114.4	103.9	96.7
37.5°	73.5	75.7	79.6	73.5	69.6
40°	54.2	55.3	56.9	53.6	51.4
42.5°	40.3	40.9	40.9	39.8	38.7
45°	30.4	30.9	30.4	30.4	29.3
47.5°	22.1	23.8	23.2	23.2	21.6
50°	14.4	17.7	17.7	17.1	14.4
52.5°	8.8	12.2	13.8	12.2	9.4
55°	6.6	8.3	10.5	8.3	7.2
57.5°	6.6	6.6	7.7	6.6	6.6
60°	6.6	6.6	6.6	6.6	6.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	5.5	6.1	6.1
72.5°	5.5	5.5	5.0	5.5	5.0
75°	4.4	4.4	4.4	4.4	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.8	2.8	2.8	2.8	2.8
82.5°	1.7	1.7	1.7	2.2	1.7
85°	1.1	1.1	1.1	1.1	1.1
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°	6.6	6.6	6.6	6.6	6.6
65°	6.1	6.6	6.1	6.6	6.1



(END OF REPORT)