

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: P283681

Luminaire Tested: **LDA2B159035D010 EU2B15FL409035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283681
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: LDA2B159035D010 EU2B15FL409035 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 979.2 lumens
Efficiency: N/A
Efficacy: 69.4 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

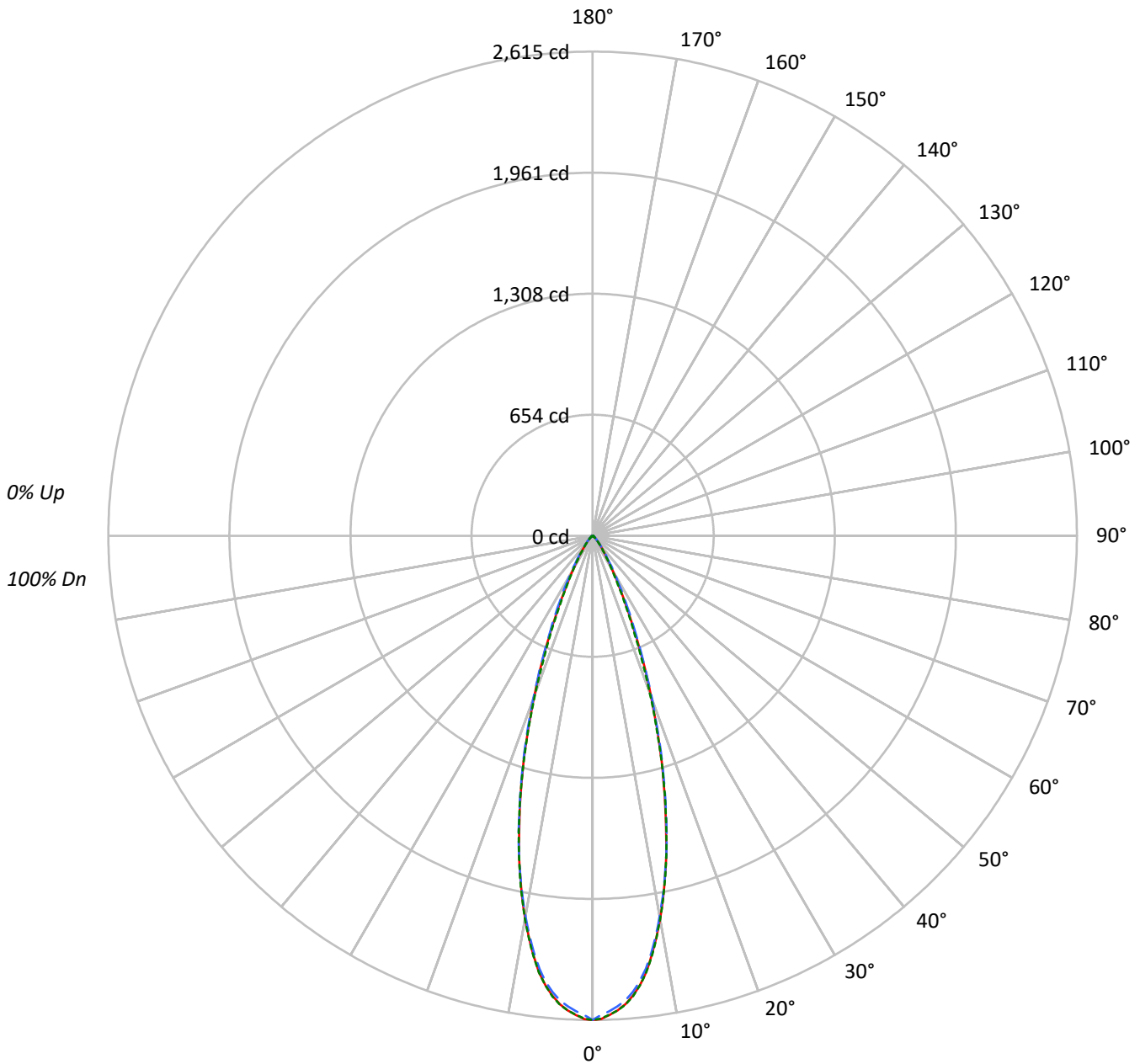
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1290240	1290240	1290240
5°	1234798	1225537	1236680
10°	1051993	1045380	1053095
15°	775342	780399	777896
20°	484020	492998	473362
25°	250027	268263	237452
30°	119862	137408	114222
35°	61855	68480	57879
40°	34649	36453	32910
45°	21071	21071	20304
50°	10976	13509	10976
55°	5677	8946	6107
60°	6512	6512	6512
65°	7004	7004	7004
70°	8655	7934	8655
75°	8387	8387	8387
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	23.0
10°-20°	413.2	42.2
20°-30°	224.0	22.9
30°-40°	71.9	7.3
40°-50°	24.5	2.5
50°-60°	8.6	0.9
60°-70°	6.2	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°	862.2	88.0
0°-40°	934.1	95.4
0°-60°	967.2	98.8
0°-90°	979.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	979.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2615	2615	2615	2615	2615	
5°	2493	2478	2475	2499	2497	225
15°	1518	1531	1528	1535	1523	412
25°	459	480	493	459	436	220
35°	103	107	114	103	96	69
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°	2615.2	2615.2	2615.2	2615.2	2615.2
1°	2610.8	2592.2	2589.4	2613.6	2608.1
2°	2590.0	2572.4	2569.6	2593.8	2588.9
3°	2566.9	2550.9	2545.5	2570.7	2567.4
4°	2536.1	2521.3	2516.3	2541.6	2538.9
5°	2493.3	2477.9	2474.6	2499.3	2497.1
6°	2440.5	2427.9	2421.8	2446.6	2442.2
7°	2374.6	2363.0	2356.5	2374.6	2376.8
8°	2288.9	2283.4	2275.7	2293.8	2293.8
9°	2197.7	2192.7	2184.5	2201.0	2201.0
10°	2099.9	2096.6	2086.7	2102.1	2102.1
11°	1992.7	1991.1	1983.9	1996.6	1996.6
12°	1880.1	1884.0	1877.4	1888.3	1884.5
13°	1767.5	1765.8	1766.4	1774.6	1768.6
14°	1640.0	1649.9	1651.6	1656.5	1647.2
15°	1518.0	1530.7	1527.9	1535.1	1523.0
16°	1393.3	1407.6	1407.1	1408.7	1397.2
17°	1276.8	1285.1	1285.6	1284.0	1269.7
18°	1152.7	1164.2	1164.2	1161.5	1144.4
19°	1031.3	1040.0	1046.1	1040.0	1020.3
20°	921.9	928.0	939.0	923.6	901.6
21°	817.0	822.5	831.8	813.7	789.5
22°	716.4	723.6	732.4	711.5	686.2
23°	622.5	639.0	642.3	613.7	592.3
24°	536.2	554.9	560.4	531.3	508.8
25°	459.3	480.2	492.8	458.8	436.2
26°	392.8	413.2	428.5	394.5	373.1
27°	334.6	356.0	372.0	340.1	319.8
28°	284.6	305.5	322.0	292.3	273.1
29°	247.2	259.3	275.8	251.1	233.5
30°	210.4	223.6	241.2	215.9	200.5
32.5°	144.5	151.6	165.4	150.0	137.9
35°	102.7	107.1	113.7	103.3	96.1
37.5°	73.1	75.3	79.1	73.1	69.2
40°	53.8	54.9	56.6	53.3	51.1
42.5°	40.1	40.7	40.7	39.6	38.5
45°	30.2	30.8	30.2	30.2	29.1
47.5°	22.0	23.6	23.1	23.1	21.4
50°	14.3	17.6	17.6	17.0	14.3
52.5°	8.8	12.1	13.7	12.1	9.3
55°	6.6	8.2	10.4	8.2	7.1
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°	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	5.5	6.0	6.0
72.5°	5.5	5.5	4.9	5.5	4.9
75°	4.4	4.4	4.4	4.4	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.2	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
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°	6.0	6.6	6.0	6.6	6.0



(END OF REPORT)