

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: P283672

Luminaire Tested: **LDA2B159030D010 EU2B15FL409030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283672
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: LDA2B159030D010 EU2B15FL409030 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: 1010.3 lumens
Efficiency: N/A
Efficacy: 71.7 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

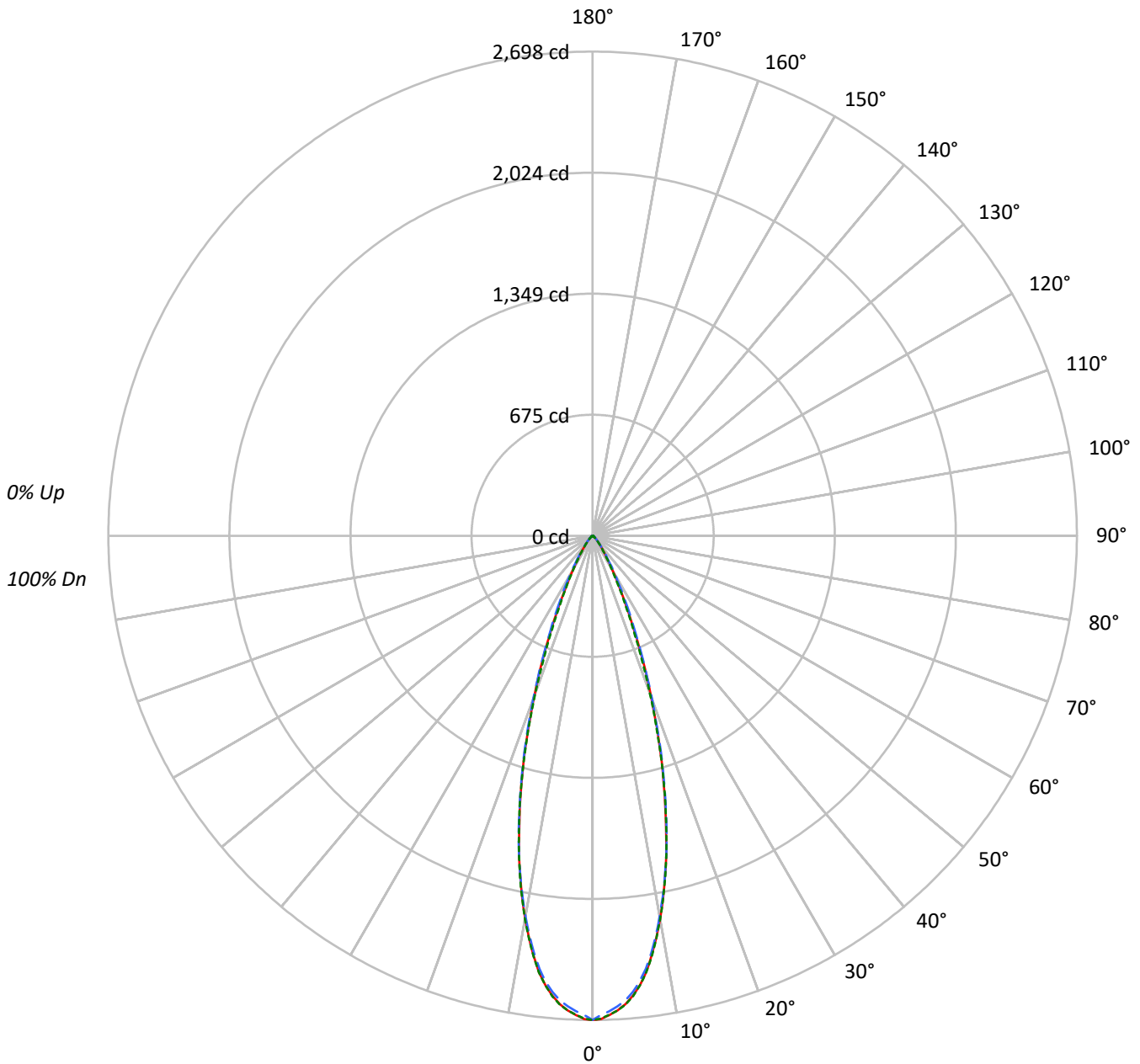
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1331238	1331238	1331238
5°	1273972	1264413	1275953
10°	1085357	1078544	1086510
15°	799961	805171	802566
20°	499403	508644	488378
25°	257974	276809	245018
30°	123679	141795	117868
35°	63842	70648	59747
40°	35809	37612	33941
45°	21769	21769	20932
50°	11283	13892	11283
55°	5849	9290	6365
60°	6710	6710	6710
65°	7238	7238	7238
70°	8943	8222	8943
75°	8578	8578	8578
80°	7955	7955	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	23.0
10°-20°	426.3	42.2
20°-30°	231.1	22.9
30°-40°	74.2	7.3
40°-50°	25.3	2.5
50°-60°	8.9	0.9
60°-70°	6.4	0.6
70°-80°	4.7	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°	889.5	88.0
0°-40°	963.7	95.4
0°-60°	997.9	98.8
0°-90°	1010.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1010.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2698	2698	2698	2698	2698	
5°	2572	2556	2553	2579	2576	233
15°	1566	1579	1576	1584	1571	425
25°	474	495	508	473	450	227
35°	106	110	117	107	99	71
45°	31	32	31	31	30	25
55°	7	8	11	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°	2698.3	2698.3	2698.3	2698.3	2698.3
1°	2693.7	2674.4	2671.6	2696.6	2690.9
2°	2672.2	2654.0	2651.2	2676.1	2671.0
3°	2648.4	2631.9	2626.3	2652.3	2648.9
4°	2616.6	2601.3	2596.2	2622.3	2619.5
5°	2572.4	2556.5	2553.1	2578.6	2576.4
6°	2518.0	2505.0	2498.7	2524.2	2519.7
7°	2450.0	2438.1	2431.3	2450.0	2452.2
8°	2361.5	2355.9	2347.9	2366.6	2366.6
9°	2267.4	2262.3	2253.8	2270.8	2270.8
10°	2166.5	2163.1	2152.9	2168.8	2168.8
11°	2056.0	2054.3	2046.9	2060.0	2060.0
12°	1939.8	1943.8	1937.0	1948.3	1944.3
13°	1823.6	1821.9	1822.5	1831.0	1824.7
14°	1692.1	1702.3	1704.0	1709.1	1699.4
15°	1566.2	1579.3	1576.4	1583.8	1571.3
16°	1437.6	1452.3	1451.7	1453.4	1441.5
17°	1317.4	1325.9	1326.5	1324.8	1310.0
18°	1189.3	1201.2	1201.2	1198.3	1180.8
19°	1064.0	1073.1	1079.3	1073.1	1052.7
20°	951.2	957.4	968.8	952.9	930.2
21°	842.9	848.6	858.2	839.5	814.6
22°	739.2	746.6	755.6	734.1	708.0
23°	642.3	659.3	662.7	633.2	611.1
24°	553.3	572.5	578.2	548.2	524.9
25°	473.9	495.4	508.5	473.3	450.1
26°	405.3	426.3	442.2	407.0	384.9
27°	345.2	367.3	383.8	350.9	329.9
28°	293.6	315.2	332.2	301.6	281.7
29°	255.1	267.6	284.6	259.1	240.9
30°	217.1	230.7	248.9	222.8	206.9
32.5°	149.1	156.5	170.6	154.8	142.3
35°	106.0	110.5	117.3	106.6	99.2
37.5°	75.4	77.7	81.6	75.4	71.4
40°	55.6	56.7	58.4	55.0	52.7
42.5°	41.4	41.9	41.9	40.8	39.7
45°	31.2	31.7	31.2	31.2	30.0
47.5°	22.7	24.4	23.8	23.8	22.1
50°	14.7	18.1	18.1	17.6	14.7
52.5°	9.1	12.5	14.2	12.5	9.6
55°	6.8	8.5	10.8	8.5	7.4
57.5°	6.8	6.8	7.9	6.8	6.8
60°	6.8	6.8	6.8	6.8	6.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.2	6.2	6.2	6.2	6.2
70°	6.2	6.2	5.7	6.2	6.2
72.5°	5.7	5.7	5.1	5.7	5.1
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.8	2.8	2.8	2.8	2.8
82.5°	1.7	1.7	1.7	2.3	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°	6.8	6.8	6.8	6.8	6.8
65°	6.2	6.8	6.2	6.8	6.2



(END OF REPORT)