

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: P283675

Luminaire Tested: **LDA2B159030D010 EU2B15FL409030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283675
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 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: 943.3 lumens
Efficiency: N/A
Efficacy: 66.9 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

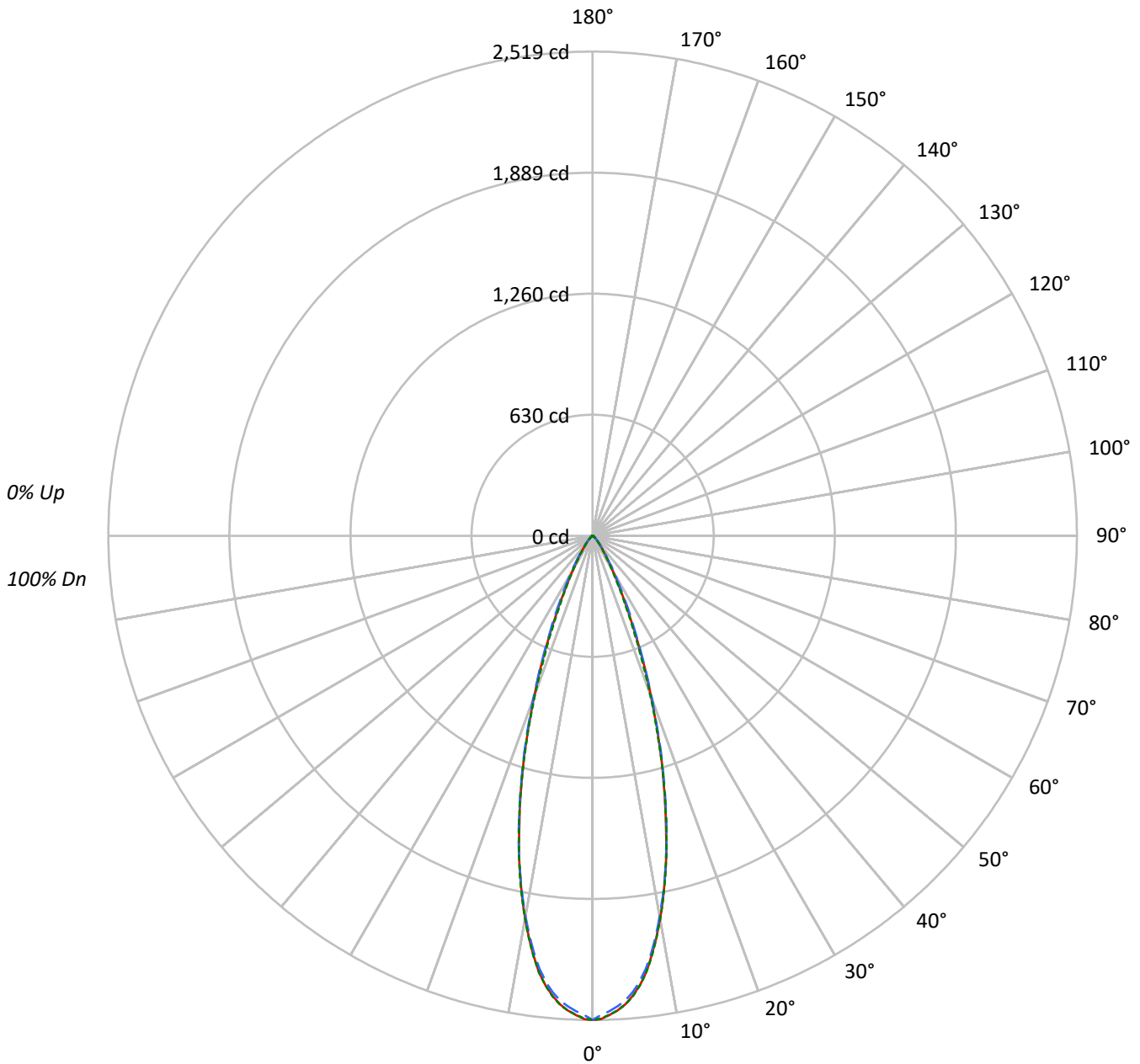
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1242828	1242828	1242828
5°	1189384	1180469	1191216
10°	1013317	1006955	1014370
15°	746842	751745	749293
20°	466222	474832	455984
25°	240827	258410	228742
30°	115475	132338	110063
35°	59626	65950	55771
40°	33426	35100	31687
45°	20304	20304	19536
50°	10592	12971	10592
55°	5505	8688	5935
60°	6315	6315	6315
65°	6771	6771	6771
70°	8366	7645	8366
75°	8006	8006	8006
80°	7387	7387	7387
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	23.0
10°-20°	398.0	42.2
20°-30°	215.8	22.9
30°-40°	69.3	7.3
40°-50°	23.6	2.5
50°-60°	8.3	0.9
60°-70°	6.0	0.6
70°-80°	4.4	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°	830.5	88.0
0°-40°	899.7	95.4
0°-60°	931.6	98.8
0°-90°	943.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2519	2519	2519	2519	2519	
5°	2402	2387	2384	2407	2405	217
15°	1462	1474	1472	1479	1467	396
25°	442	462	475	442	420	212
35°	99	103	110	100	93	67
45°	29	30	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2519.1	2519.1	2519.1	2519.1	2519.1
1°	2514.9	2496.9	2494.2	2517.5	2512.2
2°	2494.7	2477.8	2475.2	2498.4	2493.7
3°	2472.5	2457.2	2451.9	2476.2	2473.0
4°	2442.9	2428.6	2423.8	2448.2	2445.5
5°	2401.6	2386.8	2383.6	2407.4	2405.3
6°	2350.8	2338.6	2332.8	2356.6	2352.4
7°	2287.3	2276.2	2269.8	2287.3	2289.4
8°	2204.7	2199.4	2192.0	2209.5	2209.5
9°	2116.9	2112.1	2104.2	2120.1	2120.1
10°	2022.7	2019.5	2010.0	2024.8	2024.8
11°	1919.5	1917.9	1911.0	1923.2	1923.2
12°	1811.0	1814.7	1808.3	1818.9	1815.2
13°	1702.5	1700.9	1701.4	1709.4	1703.6
14°	1579.7	1589.2	1590.8	1595.6	1586.6
15°	1462.2	1474.4	1471.8	1478.6	1467.0
16°	1342.1	1355.9	1355.3	1356.9	1345.8
17°	1229.9	1237.8	1238.4	1236.8	1223.0
18°	1110.3	1121.4	1121.4	1118.8	1102.4
19°	993.3	1001.8	1007.6	1001.8	982.8
20°	888.0	893.9	904.4	889.6	868.5
21°	787.0	792.2	801.2	783.8	760.5
22°	690.1	697.0	705.5	685.3	661.0
23°	599.6	615.5	618.7	591.1	570.5
24°	516.5	534.5	539.8	511.8	490.1
25°	442.4	462.5	474.7	441.9	420.2
26°	378.4	398.0	412.8	380.0	359.3
27°	322.3	342.9	358.3	327.6	308.0
28°	274.1	294.2	310.1	281.5	263.0
29°	238.1	249.8	265.7	241.9	224.9
30°	202.7	215.4	232.3	208.0	193.2
32.5°	139.2	146.1	159.3	144.5	132.8
35°	99.0	103.2	109.5	99.5	92.6
37.5°	70.4	72.5	76.2	70.4	66.7
40°	51.9	52.9	54.5	51.3	49.2
42.5°	38.6	39.2	39.2	38.1	37.0
45°	29.1	29.6	29.1	29.1	28.0
47.5°	21.2	22.8	22.2	22.2	20.6
50°	13.8	16.9	16.9	16.4	13.8
52.5°	8.5	11.6	13.2	11.6	9.0
55°	6.4	7.9	10.1	7.9	6.9
57.5°	6.4	6.4	7.4	6.4	6.4
60°	6.4	6.4	6.4	6.4	6.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.3	5.8	5.8
72.5°	5.3	5.3	4.8	5.3	4.8
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.1	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°	6.4	6.4	6.4	6.4	6.4
65°	5.8	6.4	5.8	6.4	5.8



(END OF REPORT)