

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: P283671

Luminaire Tested: **LDA2B159030D010 EU2B15FL409030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283671
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 989.2 lumens
Efficiency: N/A
Efficacy: 70.2 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

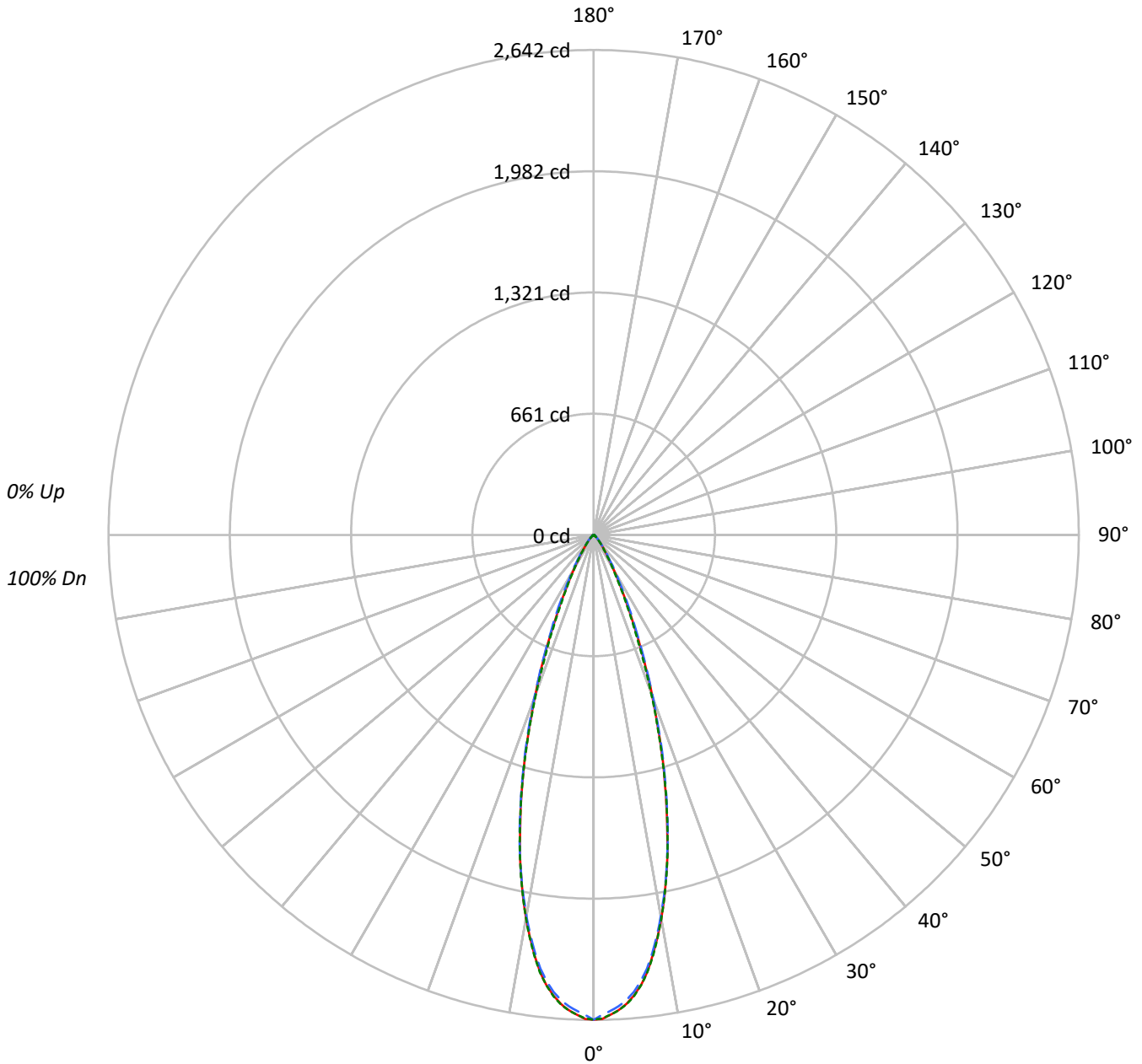
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1303264	1303264	1303264
5°	1247228	1237868	1249160
10°	1062563	1055900	1063715
15°	783157	788265	785711
20°	488903	497933	478140
25°	252531	270985	239847
30°	121058	138775	115418
35°	62517	69202	58482
40°	35036	36839	33232
45°	21280	21280	20513
50°	11052	13662	11052
55°	5763	9032	6193
60°	6611	6611	6611
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°	227.2	23.0
10°-20°	417.4	42.2
20°-30°	226.3	22.9
30°-40°	72.6	7.3
40°-50°	24.8	2.5
50°-60°	8.7	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°	870.8	88.0
0°-40°	943.5	95.4
0°-60°	976.9	98.8
0°-90°	989.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2642	2642	2642	2642	2642	
5°	2518	2503	2500	2524	2522	228
15°	1533	1546	1543	1551	1538	416
25°	464	485	498	463	441	222
35°	104	108	115	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°	2641.6	2641.6	2641.6	2641.6	2641.6
1°	2637.2	2618.3	2615.5	2639.9	2634.4
2°	2616.1	2598.3	2595.5	2620.0	2615.0
3°	2592.8	2576.7	2571.1	2596.6	2593.3
4°	2561.7	2546.7	2541.7	2567.2	2564.5
5°	2518.4	2502.9	2499.5	2524.5	2522.3
6°	2465.1	2452.4	2446.3	2471.2	2466.8
7°	2398.5	2386.9	2380.2	2398.5	2400.7
8°	2312.0	2306.4	2298.6	2316.9	2316.9
9°	2219.8	2214.8	2206.5	2223.2	2223.2
10°	2121.0	2117.7	2107.7	2123.3	2123.3
11°	2012.8	2011.2	2004.0	2016.7	2016.7
12°	1899.1	1902.9	1896.3	1907.4	1903.5
13°	1785.3	1783.6	1784.2	1792.5	1786.4
14°	1656.5	1666.5	1668.2	1673.2	1663.8
15°	1533.3	1546.1	1543.3	1550.6	1538.3
16°	1407.4	1421.8	1421.2	1422.9	1411.3
17°	1289.7	1298.0	1298.6	1296.9	1282.5
18°	1164.3	1176.0	1176.0	1173.2	1156.0
19°	1041.7	1050.5	1056.6	1050.5	1030.6
20°	931.2	937.3	948.4	932.9	910.7
21°	825.2	830.8	840.2	821.9	797.5
22°	723.7	730.9	739.8	718.7	693.1
23°	628.8	645.4	648.7	619.9	598.2
24°	541.6	560.5	566.1	536.6	513.9
25°	463.9	485.0	497.8	463.4	440.6
26°	396.8	417.3	432.9	398.5	376.8
27°	338.0	359.6	375.7	343.5	323.0
28°	287.5	308.6	325.2	295.2	275.8
29°	249.7	261.9	278.6	253.6	235.9
30°	212.5	225.9	243.6	218.1	202.6
32.5°	146.0	153.2	167.0	151.5	139.3
35°	103.8	108.2	114.9	104.3	97.1
37.5°	73.8	76.0	79.9	73.8	69.9
40°	54.4	55.5	57.2	53.8	51.6
42.5°	40.5	41.1	41.1	40.0	38.8
45°	30.5	31.1	30.5	30.5	29.4
47.5°	22.2	23.9	23.3	23.3	21.6
50°	14.4	17.8	17.8	17.2	14.4
52.5°	8.9	12.2	13.9	12.2	9.4
55°	6.7	8.3	10.5	8.3	7.2
57.5°	6.7	6.7	7.8	6.7	6.7
60°	6.7	6.7	6.7	6.7	6.7



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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°	6.7	6.7	6.7	6.7	6.7
65°	6.1	6.7	6.1	6.7	6.1



(END OF REPORT)