

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: P283649

Luminaire Tested: **LDA2B158040D010 EU2B15FL408040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283649
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: LDA2B158040D010 EU2B15FL408040 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1258.5 lumens
Efficiency: N/A
Efficacy: 89.3 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

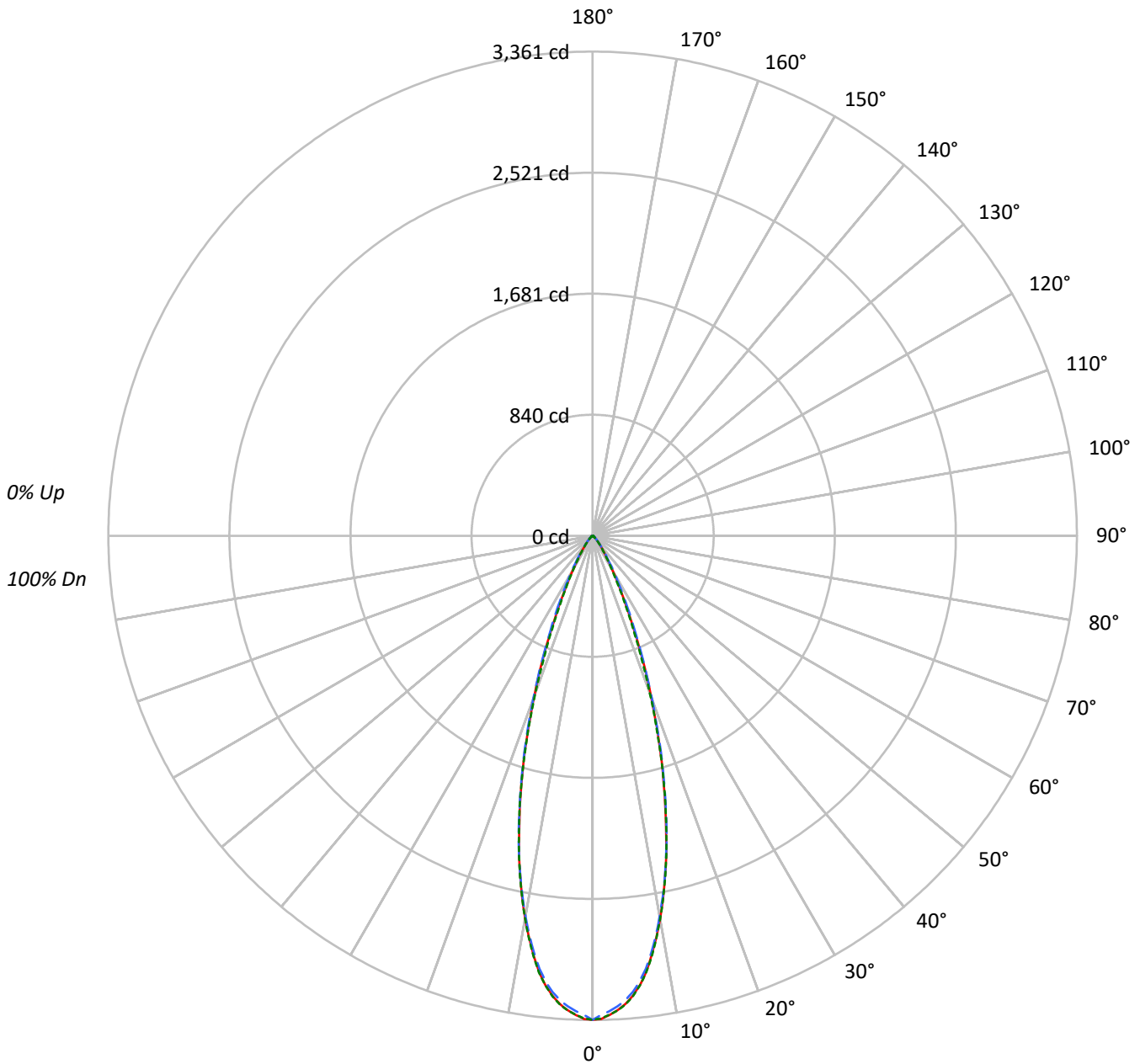
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	1658090	1658090	1658090
5°	1586819	1574933	1589246
10°	1351875	1343408	1353278
15°	996402	1002888	999671
20°	622049	633495	608294
25°	321338	344746	305171
30°	154043	176602	146808
35°	79501	88054	74442
40°	44567	46822	42313
45°	27071	27071	26095
50°	14123	17346	14123
55°	7311	11526	7913
60°	8387	8387	8387
65°	9106	9106	9106
70°	11251	10242	11251
75°	10675	10675	10675
80°	9944	9944	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	23.0
10°-20°	531.0	42.2
20°-30°	287.9	22.9
30°-40°	92.4	7.3
40°-50°	31.5	2.5
50°-60°	11.0	0.9
60°-70°	8.1	0.6
70°-80°	5.9	0.5
80°-90°	1.7	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°	1107.9	88.0
0°-40°	1200.4	95.4
0°-60°	1242.9	98.8
0°-90°	1258.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1258.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3361	3361	3361	3361	3361	
5°	3204	3184	3180	3212	3209	290
15°	1951	1967	1964	1973	1957	529
25°	590	617	633	590	561	283
35°	132	138	146	133	124	89
45°	39	40	39	39	37	31
55°	8	11	13	11	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3360.8	3360.8	3360.8	3360.8	3360.8
1°	3355.2	3331.1	3327.6	3358.7	3351.6
2°	3328.3	3305.7	3302.2	3333.3	3326.9
3°	3298.7	3278.2	3271.1	3303.6	3299.4
4°	3259.1	3240.1	3233.7	3266.2	3262.7
5°	3204.1	3184.3	3180.1	3211.8	3209.0
6°	3136.3	3120.0	3112.3	3144.0	3138.4
7°	3051.5	3036.7	3028.2	3051.5	3054.4
8°	2941.4	2934.3	2924.5	2947.8	2947.8
9°	2824.2	2817.8	2807.3	2828.4	2828.4
10°	2698.5	2694.3	2681.6	2701.3	2701.3
11°	2560.8	2558.7	2549.5	2565.8	2565.8
12°	2416.1	2421.0	2412.6	2426.7	2421.8
13°	2271.4	2269.2	2270.0	2280.5	2272.8
14°	2107.6	2120.3	2122.4	2128.7	2116.7
15°	1950.8	1967.1	1963.5	1972.7	1957.2
16°	1790.5	1808.9	1808.2	1810.3	1795.5
17°	1640.9	1651.5	1652.2	1650.0	1631.7
18°	1481.3	1496.1	1496.1	1492.6	1470.7
19°	1325.3	1336.6	1344.3	1336.6	1311.1
20°	1184.8	1192.5	1206.6	1186.9	1158.6
21°	1049.9	1057.0	1069.0	1045.7	1014.6
22°	920.7	929.9	941.2	914.3	881.9
23°	800.0	821.1	825.4	788.7	761.1
24°	689.1	713.1	720.2	682.8	653.8
25°	590.3	617.1	633.3	589.6	560.6
26°	504.8	530.9	550.7	506.9	479.4
27°	430.0	457.5	478.0	437.0	410.9
28°	365.7	392.6	413.7	375.6	350.9
29°	317.7	333.3	354.4	322.7	300.1
30°	270.4	287.4	310.0	277.5	257.7
32.5°	185.7	194.9	212.5	192.8	177.2
35°	132.0	137.7	146.2	132.7	123.6
37.5°	93.9	96.7	101.7	93.9	89.0
40°	69.2	70.6	72.7	68.5	65.7
42.5°	51.5	52.2	52.2	50.8	49.4
45°	38.8	39.5	38.8	38.8	37.4
47.5°	28.2	30.4	29.7	29.7	27.5
50°	18.4	22.6	22.6	21.9	18.4
52.5°	11.3	15.5	17.7	15.5	12.0
55°	8.5	10.6	13.4	10.6	9.2
57.5°	8.5	8.5	9.9	8.5	8.5
60°	8.5	8.5	8.5	8.5	8.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.1	7.8	7.8
72.5°	7.1	7.1	6.4	7.1	6.4
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
80°	3.5	3.5	3.5	3.5	3.5
82.5°	2.1	2.1	2.1	2.8	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.8	8.5	7.8	8.5	7.8



(END OF REPORT)