

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: P282297

Luminaire Tested: **LDA2B158035D010 EU2B15NFL258035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158035D010 EU2B15NFL258035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1320.6 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

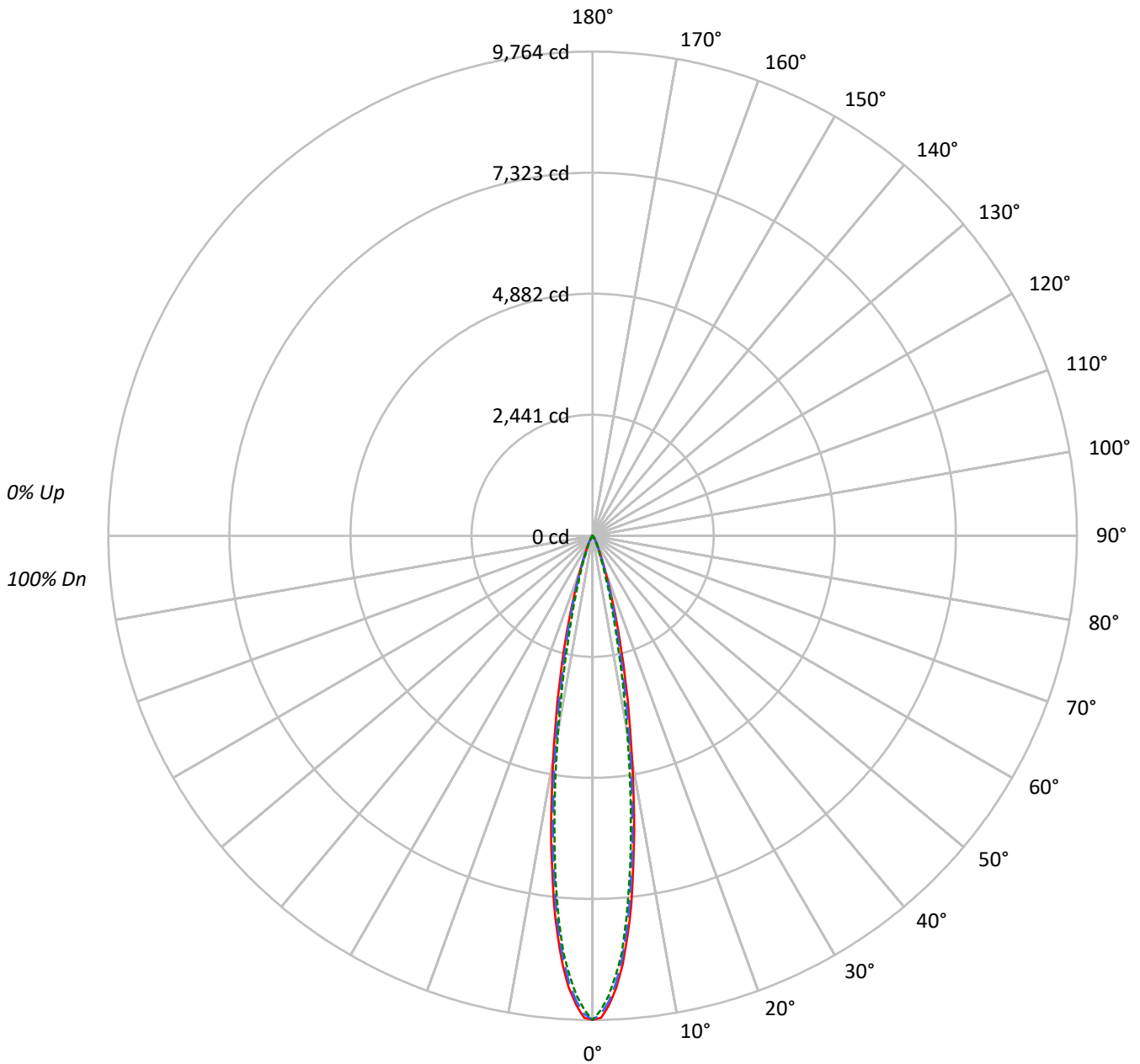
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4817333	4817333	4817333
5°	4008524	3935079	3855592
10°	2296058	2154583	2010854
15°	1021225	906967	760070
20°	370457	348354	275953
25°	142242	132825	114371
30°	61355	57082	50645
35°	29030	29030	24031
40°	14555	15006	12108
45°	8373	7884	7326
50°	5757	5219	5219
55°	4559	3269	3871
60°	3750	2269	2960
65°	2685	1751	2685
70°	2164	1154	2164
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.1	48.1
10°-20°	513.9	38.9
20°-30°	123.9	9.4
30°-40°	31.6	2.4
40°-50°	9.4	0.7
50°-60°	4.0	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.1
80°-90°	0.0	0.0
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°	1272.9	96.4
0°-40°	1304.5	98.8
0°-60°	1318.0	99.8
0°-90°	1320.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9764	9764	9764	9764	9764	
5°	8094	8020	7946	7876	7785	655
15°	1999	1952	1776	1600	1488	570
25°	261	263	244	221	210	135
35°	48	49	48	44	40	33
45°	12	12	11	10	10	10
55°	5	4	4	4	4	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9764.3	9764.3	9764.3	9764.3	9764.3
1°	9720.6	9652.9	9644.6	9686.8	9562.5
2°	9472.1	9423.9	9396.1	9420.9	9280.1
3°	9131.0	9084.3	9033.8	9034.6	8877.2
4°	8666.3	8629.4	8544.3	8518.7	8427.6
5°	8094.0	8019.5	7945.7	7876.4	7785.2
6°	7461.4	7365.0	7259.6	7156.4	7063.1
7°	6717.4	6653.4	6514.1	6373.2	6294.2
8°	6017.8	5914.6	5752.0	5575.7	5508.7
9°	5265.5	5191.7	5004.9	4800.1	4733.1
10°	4583.2	4506.4	4300.8	4072.6	4013.9
11°	3943.1	3870.8	3656.9	3417.4	3354.9
12°	3401.6	3299.2	3053.7	2845.9	2784.9
13°	2862.4	2792.4	2559.7	2354.1	2235.9
14°	2403.8	2345.8	2135.0	1954.2	1829.2
15°	1999.4	1952.0	1775.7	1599.5	1488.1
16°	1640.2	1610.8	1471.5	1301.3	1210.2
17°	1330.7	1303.6	1214.7	1058.1	981.3
18°	1074.6	1070.9	997.1	861.5	793.0
19°	884.1	882.6	814.8	701.1	644.6
20°	705.6	715.4	663.5	564.1	525.6
21°	575.3	580.6	539.2	463.9	429.3
22°	468.4	472.2	445.1	383.3	364.5
23°	384.1	386.3	363.7	317.8	301.2
24°	316.3	317.8	297.5	265.1	250.8
25°	261.3	262.8	244.0	221.4	210.1
26°	216.9	218.4	201.8	186.0	174.7
27°	180.0	183.0	166.4	156.6	144.6
28°	153.6	154.4	139.3	133.3	122.0
29°	125.8	130.3	117.5	112.2	103.9
30°	107.7	109.9	100.2	96.4	88.9
32.5°	71.5	73.0	68.5	65.5	59.5
35°	48.2	48.9	48.2	43.7	39.9
37.5°	33.1	33.1	33.9	28.6	27.1
40°	22.6	22.6	23.3	19.6	18.8
42.5°	16.6	16.6	15.8	13.6	13.6
45°	12.0	12.0	11.3	10.5	10.5
47.5°	9.8	9.0	8.3	8.3	8.3
50°	7.5	7.5	6.8	6.0	6.8
52.5°	6.0	6.0	5.3	5.3	5.3
55°	5.3	4.5	3.8	3.8	4.5
57.5°	3.8	3.8	3.0	3.0	3.8
60°	3.8	3.0	2.3	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.8	0.8	1.5
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.0	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.5	1.5	2.3



(END OF REPORT)