

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: P282308

Luminaire Tested: **LDA2B158050D010 EU2B15NFL258050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282308
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: LDA2B158050D010 EU2B15NFL258050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1380.4 lumens
Efficiency: N/A
Efficacy: 97.9 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

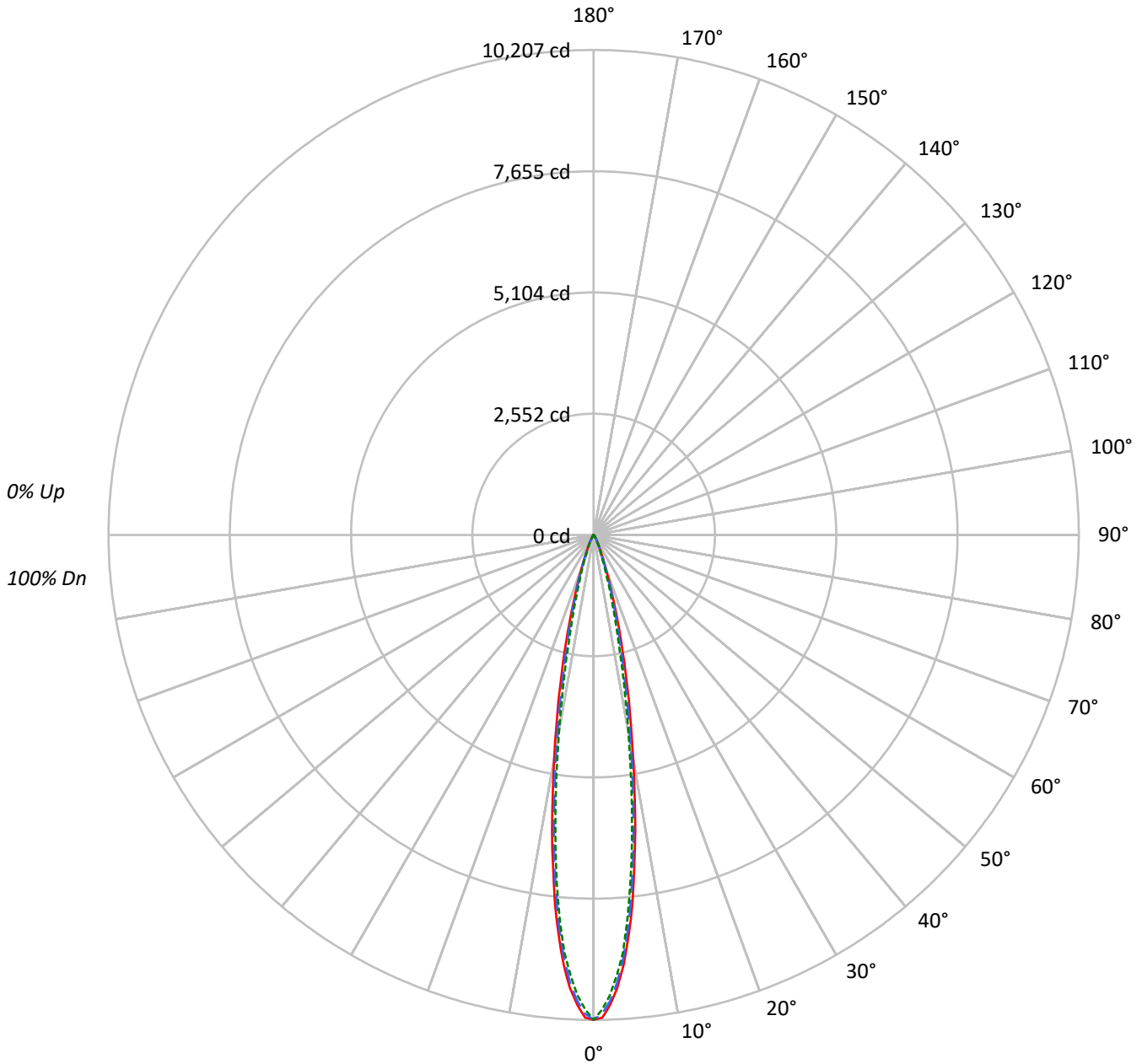
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5035645	5035645	5035645
5°	4190180	4113368	4030364
10°	2400110	2252223	2101981
15°	1067500	948083	794496
20°	387258	364105	288501
25°	148720	138867	119542
30°	64147	59646	52924
35°	30355	30355	25115
40°	15199	15715	12688
45°	8791	8233	7675
50°	6064	5449	5449
55°	4731	3355	4043
60°	3848	2368	3059
65°	2802	1868	2802
70°	2308	1154	2308
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.8	48.1
10°-20°	537.2	38.9
20°-30°	129.5	9.4
30°-40°	33.0	2.4
40°-50°	9.8	0.7
50°-60°	4.2	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.0
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°	1330.6	96.4
0°-40°	1363.6	98.8
0°-60°	1377.7	99.8
0°-90°	1380.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10207	10207	10207	10207	10207	
5°	8461	8383	8306	8233	8138	684
15°	2090	2040	1856	1672	1556	596
25°	273	275	255	231	220	141
35°	50	51	50	46	42	35
45°	13	13	12	11	11	11
55°	6	5	4	4	5	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°	10206.8	10206.8	10206.8	10206.8	10206.8
1°	10161.2	10090.3	10081.6	10125.7	9995.8
2°	9901.4	9851.0	9821.9	9847.8	9700.6
3°	9544.8	9496.0	9443.2	9444.0	9279.5
4°	9059.1	9020.5	8931.5	8904.8	8809.5
5°	8460.8	8382.9	8305.7	8233.3	8138.1
6°	7799.6	7698.8	7588.6	7480.7	7383.1
7°	7021.8	6954.9	6809.3	6662.1	6579.4
8°	6290.5	6182.7	6012.6	5828.4	5758.4
9°	5504.1	5426.9	5231.7	5017.6	4947.5
10°	4790.9	4710.6	4495.7	4257.2	4195.8
11°	4121.8	4046.2	3822.6	3572.3	3507.0
12°	3555.8	3448.7	3192.1	2974.8	2911.1
13°	2992.1	2918.9	2675.7	2460.8	2337.2
14°	2512.7	2452.1	2231.7	2042.8	1912.1
15°	2090.0	2040.4	1856.2	1672.0	1555.5
16°	1714.5	1683.8	1538.2	1360.3	1265.0
17°	1391.0	1362.6	1269.8	1106.0	1025.7
18°	1123.3	1119.4	1042.2	900.6	828.9
19°	924.2	922.6	851.7	732.9	673.8
20°	737.6	747.8	693.5	589.6	549.5
21°	601.4	606.9	563.6	484.9	448.7
22°	489.6	493.6	465.2	400.7	381.0
23°	401.5	403.8	380.2	332.2	314.9
24°	330.6	332.2	310.9	277.1	262.1
25°	273.2	274.7	255.1	231.4	219.6
26°	226.7	228.3	211.0	194.4	182.6
27°	188.1	191.3	174.0	163.7	151.1
28°	160.6	161.4	145.6	139.3	127.5
29°	131.5	136.2	122.8	117.3	108.6
30°	112.6	114.9	104.7	100.8	92.9
32.5°	74.8	76.4	71.6	68.5	62.2
35°	50.4	51.2	50.4	45.7	41.7
37.5°	34.6	34.6	35.4	29.9	28.3
40°	23.6	23.6	24.4	20.5	19.7
42.5°	17.3	17.3	16.5	14.2	14.2
45°	12.6	12.6	11.8	11.0	11.0
47.5°	10.2	9.4	8.7	8.7	8.7
50°	7.9	7.9	7.1	6.3	7.1
52.5°	6.3	6.3	5.5	5.5	5.5
55°	5.5	4.7	3.9	3.9	4.7
57.5°	3.9	3.9	3.1	3.1	3.9
60°	3.9	3.1	2.4	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.4	1.6	1.6	1.6	1.6
70°	1.6	1.6	0.8	0.8	1.6
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°	3.1	2.4	2.4	2.4	2.4
65°	2.4	2.4	1.6	1.6	2.4



(END OF REPORT)