

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: P282206

Luminaire Tested: **LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282206
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: LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 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: 992.2 lumens
Efficiency: N/A
Efficacy: 99.2 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

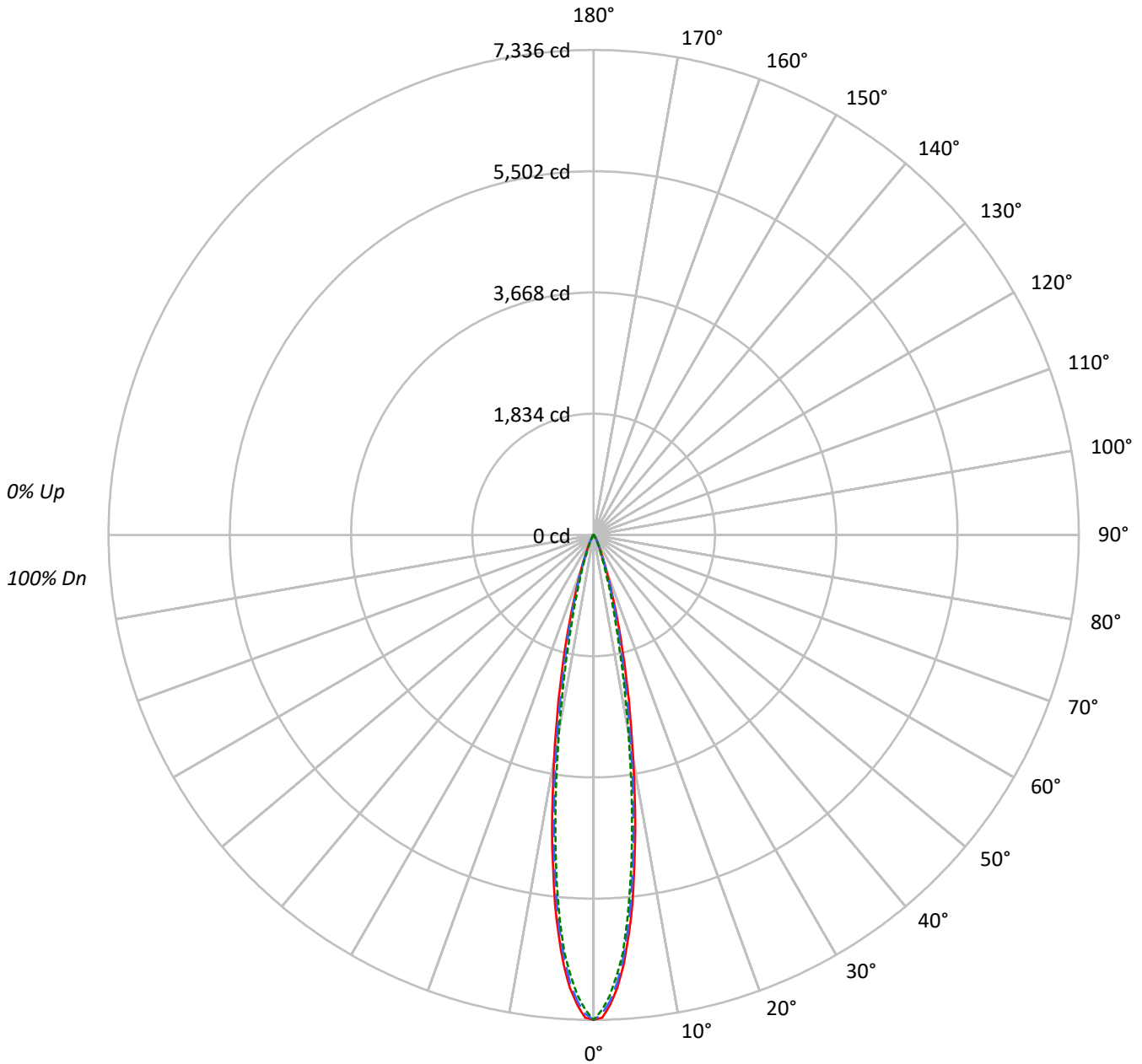
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	99	97	97	100													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95	95	94	92													
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	94	93	92	91	90	88													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93	92	91	90	89	88	86													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	89	88	87	86	85	84	83													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	87	86	85	84	83	81													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86	85	84	83	82	81	79													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84	83	82	81	80	79	77													
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	82	81	80	79	78	77	75													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81	80	79	78	77	75	73													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79	78	77	75	73	71	69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3619499	3619499	3619499
5°	3011791	2956621	2896894
10°	1725150	1618843	1510833
15°	767272	681464	571087
20°	278368	261725	207332
25°	106859	99782	85955
30°	46088	42897	38055
35°	21803	21803	18069
40°	10949	11271	9081
45°	6349	5931	5512
50°	4375	3914	3914
55°	3441	2408	2925
60°	2763	1677	2269
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.2	48.1
10°-20°	386.1	38.9
20°-30°	93.1	9.4
30°-40°	23.7	2.4
40°-50°	7.1	0.7
50°-60°	3.0	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	956.4	96.4
0°-40°	980.1	98.8
0°-60°	990.3	99.8
0°-90°	992.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7336	7336	7336	7336	7336	
5°	6081	6025	5970	5918	5849	492
15°	1502	1467	1334	1202	1118	428
25°	196	198	183	166	158	101
35°	36	37	36	33	30	25
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
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°	7336.4	7336.4	7336.4	7336.4	7336.4
1°	7303.6	7252.7	7246.4	7278.1	7184.8
2°	7116.9	7080.7	7059.7	7078.4	6972.6
3°	6860.6	6825.5	6787.6	6788.1	6669.9
4°	6511.4	6483.7	6419.8	6400.5	6332.1
5°	6081.4	6025.4	5970.0	5917.9	5849.4
6°	5606.1	5533.7	5454.5	5377.0	5306.8
7°	5047.1	4999.0	4894.3	4788.5	4729.1
8°	4521.5	4443.9	4321.7	4189.3	4139.0
9°	3956.2	3900.8	3760.4	3606.5	3556.2
10°	3443.6	3385.9	3231.4	3059.9	3015.8
11°	2962.6	2908.3	2747.6	2567.7	2520.7
12°	2555.8	2478.9	2294.4	2138.2	2092.4
13°	2150.7	2098.1	1923.2	1768.7	1679.9
14°	1806.1	1762.5	1604.1	1468.3	1374.4
15°	1502.2	1466.6	1334.2	1201.8	1118.1
16°	1232.4	1210.3	1105.6	977.7	909.3
17°	999.8	979.4	912.7	795.0	737.3
18°	807.4	804.6	749.1	647.3	595.8
19°	664.3	663.1	612.2	526.8	484.3
20°	530.2	537.5	498.5	423.8	394.9
21°	432.3	436.2	405.1	348.5	322.5
22°	351.9	354.8	334.4	288.0	273.9
23°	288.6	290.3	273.3	238.8	226.3
24°	237.6	238.8	223.5	199.2	188.4
25°	196.3	197.5	183.3	166.4	157.9
26°	163.0	164.1	151.6	139.8	131.3
27°	135.2	137.5	125.0	117.7	108.6
28°	115.4	116.0	104.7	100.1	91.7
29°	94.5	97.9	88.3	84.3	78.1
30°	80.9	82.6	75.3	72.4	66.8
32.5°	53.8	54.9	51.5	49.2	44.7
35°	36.2	36.8	36.2	32.8	30.0
37.5°	24.9	24.9	25.5	21.5	20.4
40°	17.0	17.0	17.5	14.7	14.1
42.5°	12.4	12.4	11.9	10.2	10.2
45°	9.1	9.1	8.5	7.9	7.9
47.5°	7.4	6.8	6.2	6.2	6.2
50°	5.7	5.7	5.1	4.5	5.1
52.5°	4.5	4.5	4.0	4.0	4.0
55°	4.0	3.4	2.8	2.8	3.4
57.5°	2.8	2.8	2.3	2.3	2.8
60°	2.8	2.3	1.7	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.3	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)