

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: P282214

Luminaire Tested: **LDA2B108035D010 EU2B10NFL258035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282214
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: LDA2B108035D010 EU2B10NFL258035 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 993.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

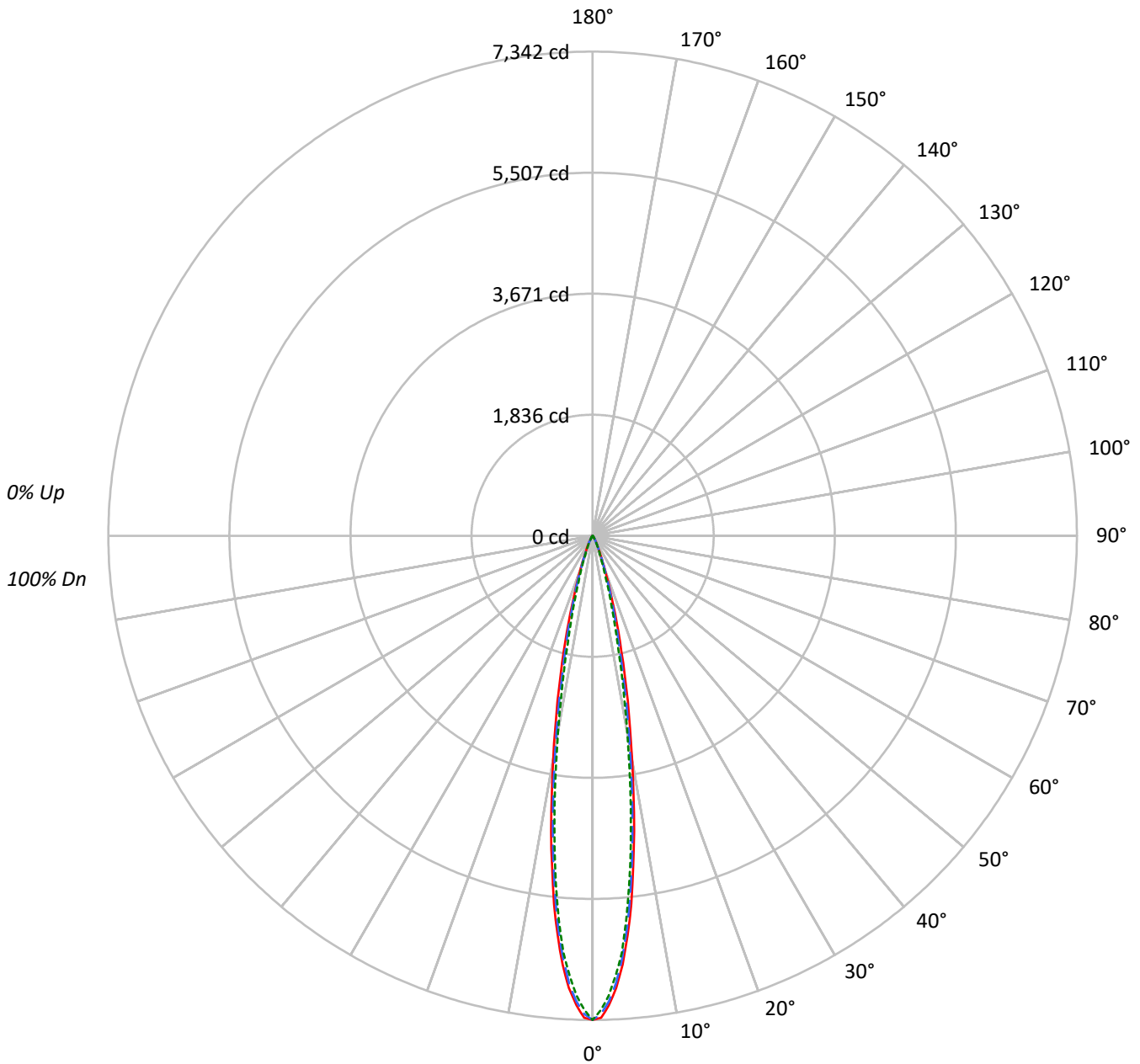
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3622509	3622509	3622509
5°	3014317	2959047	2899321
10°	1726552	1620196	1512086
15°	767936	682025	571547
20°	278578	261935	207542
25°	106968	99891	86010
30°	46144	42897	38055
35°	21803	21803	18069
40°	10949	11335	9145
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°	477.6	48.1
10°-20°	386.5	38.9
20°-30°	93.2	9.4
30°-40°	23.8	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°	957.2	96.4
0°-40°	981.0	98.8
0°-60°	991.1	99.8
0°-90°	993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7342	7342	7342	7342	7342	
5°	6086	6030	5975	5923	5854	492
15°	1504	1468	1335	1203	1119	429
25°	196	198	184	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°	7342.5	7342.5	7342.5	7342.5	7342.5
1°	7309.7	7258.7	7252.5	7284.2	7190.7
2°	7122.8	7086.5	7065.6	7084.3	6978.4
3°	6866.3	6831.1	6793.2	6793.8	6675.4
4°	6516.9	6489.1	6425.1	6405.9	6337.3
5°	6086.5	6030.4	5974.9	5922.8	5854.3
6°	5610.8	5538.3	5459.0	5381.4	5311.2
7°	5051.3	5003.2	4898.4	4792.5	4733.0
8°	4525.2	4447.6	4325.3	4192.8	4142.4
9°	3959.5	3904.0	3763.6	3609.5	3559.1
10°	3446.4	3388.7	3234.1	3062.5	3018.3
11°	2965.1	2910.7	2749.9	2569.8	2522.8
12°	2557.9	2480.9	2296.3	2140.0	2094.1
13°	2152.5	2099.8	1924.8	1770.2	1681.3
14°	1807.6	1764.0	1605.4	1469.5	1375.5
15°	1503.5	1467.8	1335.3	1202.8	1119.0
16°	1233.4	1211.3	1106.5	978.5	910.0
17°	1000.6	980.2	913.4	795.6	737.9
18°	808.1	805.3	749.8	647.8	596.3
19°	664.8	663.7	612.7	527.2	484.7
20°	530.6	538.0	498.9	424.2	395.3
21°	432.6	436.6	405.5	348.8	322.8
22°	352.2	355.1	334.7	288.2	274.1
23°	288.8	290.5	273.5	239.0	226.5
24°	237.8	239.0	223.7	199.3	188.6
25°	196.5	197.6	183.5	166.5	158.0
26°	163.1	164.2	151.8	139.9	131.4
27°	135.3	137.6	125.1	117.8	108.7
28°	115.5	116.1	104.8	100.2	91.7
29°	94.6	98.0	88.3	84.4	78.1
30°	81.0	82.7	75.3	72.5	66.8
32.5°	53.8	54.9	51.5	49.3	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	17.6	14.7	14.2
42.5°	12.5	12.5	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)