

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: P282572

Luminaire Tested: **LDA2B159730D010 EU2B15SP159730 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159730D010 EU2B15SP159730 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1065.8 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

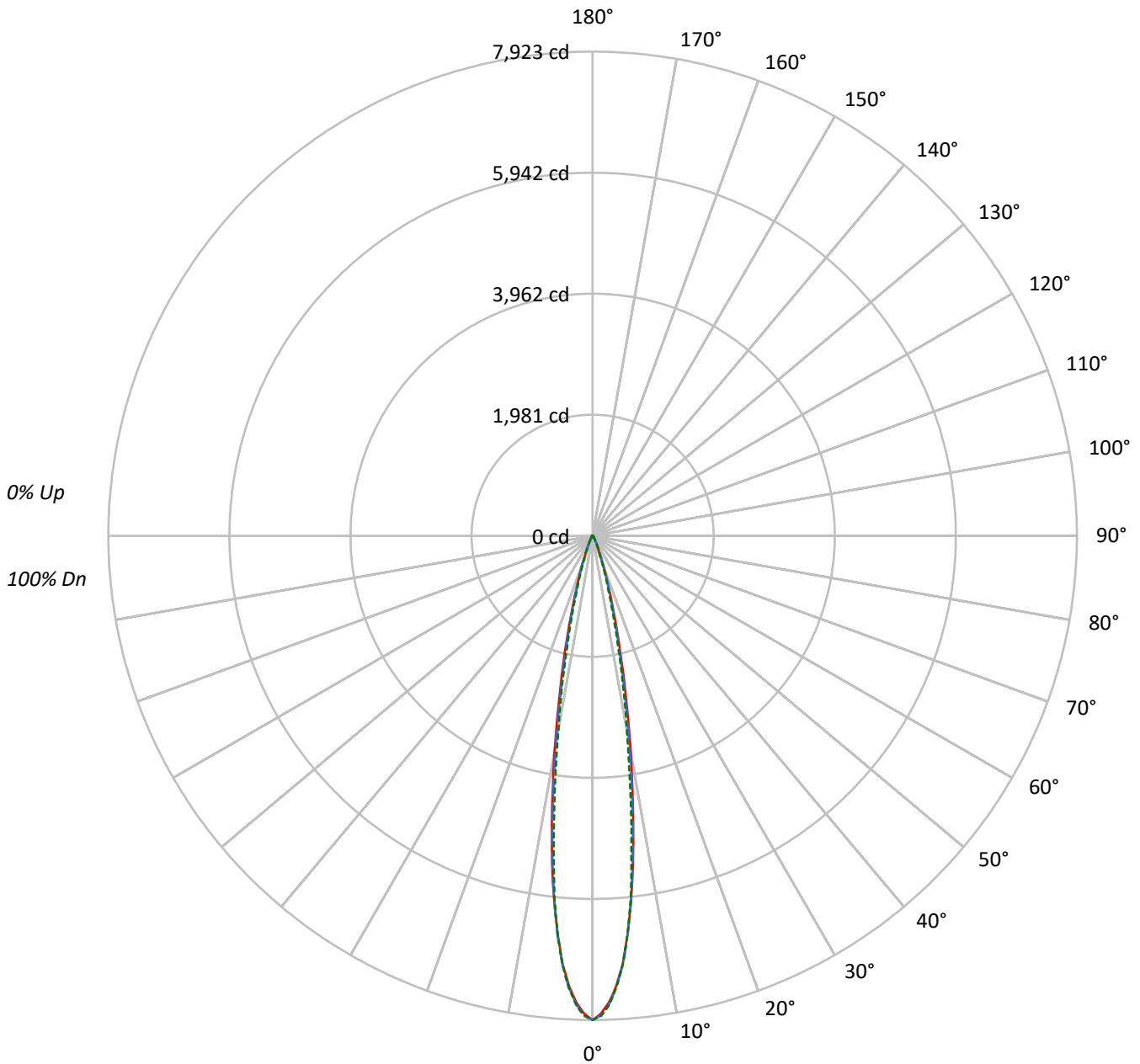
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3909053	3909053	3909053
5°	3242972	3253521	3241189
10°	1794885	1730059	1611629
15°	726564	694948	617005
20°	243401	258102	208960
25°	92596	92977	87969
30°	41530	40846	39479
35°	20116	17948	14274
40°	13332	16809	11721
45°	3419	5512	5093
50°	921	1382	1842
55°	8343	7311	11526
60°	12038	9571	15590
65°	5720	14943	14242
70°	5193	4327	5193
75°	2287	5719	16203
80°	27559	38072	34662
85°	0	16982	20378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.9	48.7
10°-20°	393.1	36.9
20°-30°	89.3	8.4
30°-40°	26.4	2.5
40°-50°	8.8	0.8
50°-60°	7.7	0.7
60°-70°	9.3	0.9
70°-80°	6.0	0.6
80°-90°	6.2	0.6
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°	1001.4	94.0
0°-40°	1027.8	96.4
0°-60°	1044.3	98.0
0°-90°	1065.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7923	7923	7923	7923	7923	
5°	6548	6600	6570	6484	6545	525
15°	1422	1442	1361	1233	1208	413
25°	170	183	171	169	162	89
35°	33	37	30	35	24	26
45°	5	14	8	14	7	7
55°	10	14	8	13	13	4
65°	5	10	13	12	12	5
75°	1	4	3	6	8	3
85°	0	0	3	3	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7923.3	7923.3	7923.3	7923.3	7923.3
1°	7821.3	7852.9	7849.8	7837.1	7859.5
2°	7641.4	7679.7	7676.0	7648.1	7688.2
3°	7377.7	7411.7	7406.2	7366.1	7409.9
4°	7025.2	7064.1	7048.9	6988.8	7044.7
5°	6548.2	6599.9	6569.5	6483.8	6544.6
6°	6019.5	6063.3	6015.3	5901.6	5961.2
7°	5427.7	5455.0	5391.8	5246.0	5205.9
8°	4781.7	4817.6	4729.5	4559.3	4515.6
9°	4164.3	4176.5	4069.5	3888.4	3833.2
10°	3582.8	3573.7	3453.4	3269.8	3217.0
11°	3031.6	3019.5	2892.5	2722.9	2740.0
12°	2530.3	2554.0	2406.4	2252.6	2255.7
13°	2118.3	2120.8	1993.7	1847.3	1838.8
14°	1734.3	1756.8	1648.0	1516.7	1492.4
15°	1422.5	1442.0	1360.6	1233.0	1208.0
16°	1138.8	1163.1	1104.7	989.3	956.5
17°	917.0	948.0	909.7	813.1	775.4
18°	733.5	757.2	748.0	648.4	617.4
19°	579.1	611.9	614.3	531.1	494.0
20°	463.6	493.4	491.6	427.2	398.0
22.5°	266.2	282.0	282.6	252.2	235.2
25°	170.1	182.9	170.8	168.9	161.6
26°	147.7	158.0	144.6	144.6	137.9
27°	119.7	128.8	116.1	121.5	112.4
28°	100.9	110.6	99.7	98.4	97.2
29°	83.9	93.0	79.0	85.1	81.4
30°	72.9	79.6	71.7	80.8	69.3
32.5°	56.5	62.0	48.0	60.8	45.6
35°	33.4	37.1	29.8	34.6	23.7
37.5°	34.6	35.9	32.2	35.9	33.4
40°	20.7	21.3	26.1	26.1	18.2
42.5°	19.4	18.8	11.5	18.2	14.6
45°	4.9	14.0	7.9	14.0	7.3
47.5°	3.6	4.9	4.9	9.7	9.7
50°	1.2	4.9	1.8	3.6	2.4
52.5°	0.0	11.5	2.4	8.5	7.3
55°	9.7	14.0	8.5	12.8	13.4
57.5°	1.2	9.7	4.9	10.3	7.3
60°	12.2	16.4	9.7	17.6	15.8
62.5°	1.2	10.9	12.8	9.7	8.5
65°	4.9	10.3	12.8	12.2	12.2
67.5°	6.1	10.3	7.9	7.9	10.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	1.2	4.3	3.0	5.5	8.5
77.5°	1.2	4.9	4.3	9.7	7.3
80°	9.7	10.9	13.4	17.6	12.2
82.5°	8.5	8.5	13.4	9.7	7.3
85°	0.0	0.0	3.0	3.0	3.6
87.5°	0.0	2.4	6.1	4.9	8.5
90°	0.0	0.0	0.0	0.0	0.0



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







70°	3.6	1.2	3.0	3.0	3.6
72.5°	1.2	5.5	4.9	3.0	6.1



(END OF REPORT)