

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: P282726

Luminaire Tested: **LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282726
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: LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 968.2 lumens
Efficiency: N/A
Efficacy: 68.7 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

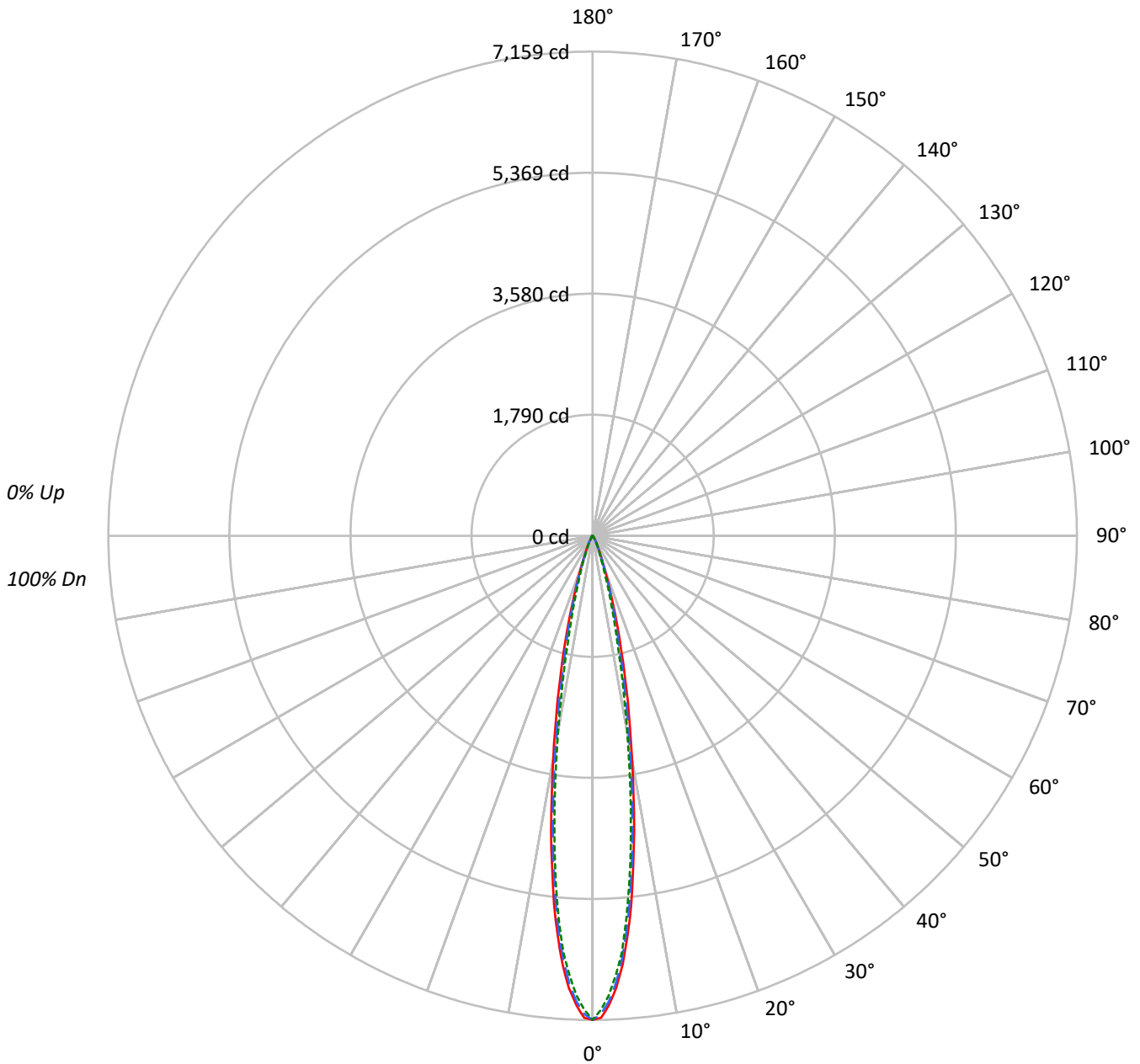
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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°	3531928	3531928	3531928
5°	2938940	2885058	2826817
10°	1683419	1579667	1474313
15°	748731	664966	557245
20°	271595	255372	202344
25°	104300	97387	83832
30°	45005	41815	37143
35°	21261	21261	17647
40°	10691	11013	8888
45°	6140	5791	5372
50°	4221	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
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°	465.6	48.1
10°-20°	376.8	38.9
20°-30°	90.9	9.4
30°-40°	23.2	2.4
40°-50°	6.9	0.7
50°-60°	3.0	0.3
60°-70°	1.4	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°	933.3	96.4
0°-40°	956.4	98.8
0°-60°	966.3	99.8
0°-90°	968.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	968.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7159	7159	7159	7159	7159	
5°	5934	5880	5826	5775	5708	480
15°	1466	1431	1302	1173	1091	418
25°	192	193	179	162	154	99
35°	35	36	35	32	29	24
45°	9	9	8	8	8	7
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°	7158.9	7158.9	7158.9	7158.9	7158.9
1°	7126.9	7077.2	7071.1	7102.1	7011.0
2°	6944.7	6909.4	6888.9	6907.2	6803.9
3°	6694.6	6660.3	6623.4	6623.9	6508.5
4°	6353.9	6326.9	6264.5	6245.7	6178.9
5°	5934.3	5879.6	5825.5	5774.7	5707.9
6°	5470.5	5399.8	5322.5	5246.9	5178.4
7°	4925.0	4878.1	4775.9	4672.7	4614.7
8°	4412.1	4336.4	4217.2	4088.0	4038.8
9°	3860.5	3806.4	3669.5	3519.3	3470.1
10°	3360.3	3303.9	3153.2	2985.9	2942.9
11°	2891.0	2838.0	2681.1	2505.6	2459.7
12°	2494.0	2418.9	2238.9	2086.5	2041.8
13°	2098.6	2047.3	1876.7	1726.0	1639.3
14°	1762.4	1719.9	1565.3	1432.8	1341.1
15°	1465.9	1431.1	1301.9	1172.7	1091.0
16°	1202.5	1181.0	1078.9	954.1	887.3
17°	975.6	955.7	890.6	775.7	719.4
18°	787.9	785.1	731.0	631.6	581.4
19°	648.2	647.1	597.4	514.0	472.6
20°	517.3	524.5	486.4	413.5	385.4
21°	421.8	425.7	395.3	340.1	314.7
22°	343.4	346.2	326.3	281.0	267.2
23°	281.6	283.2	266.7	233.0	220.9
24°	231.9	233.0	218.1	194.3	183.9
25°	191.6	192.7	178.9	162.3	154.0
26°	159.0	160.1	148.0	136.4	128.1
27°	132.0	134.2	122.0	114.8	106.0
28°	112.6	113.2	102.1	97.7	89.4
29°	92.2	95.5	86.1	82.3	76.2
30°	79.0	80.6	73.4	70.7	65.2
32.5°	52.5	53.6	50.2	48.0	43.6
35°	35.3	35.9	35.3	32.0	29.3
37.5°	24.3	24.3	24.8	21.0	19.9
40°	16.6	16.6	17.1	14.4	13.8
42.5°	12.1	12.1	11.6	9.9	9.9
45°	8.8	8.8	8.3	7.7	7.7
47.5°	7.2	6.6	6.1	6.1	6.1
50°	5.5	5.5	5.0	4.4	5.0
52.5°	4.4	4.4	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



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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°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)