

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: P282338

Luminaire Tested: **LDA2B159040D010 EU2B15NFL259040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282338
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: LDA2B159040D010 EU2B15NFL259040 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: 1129.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

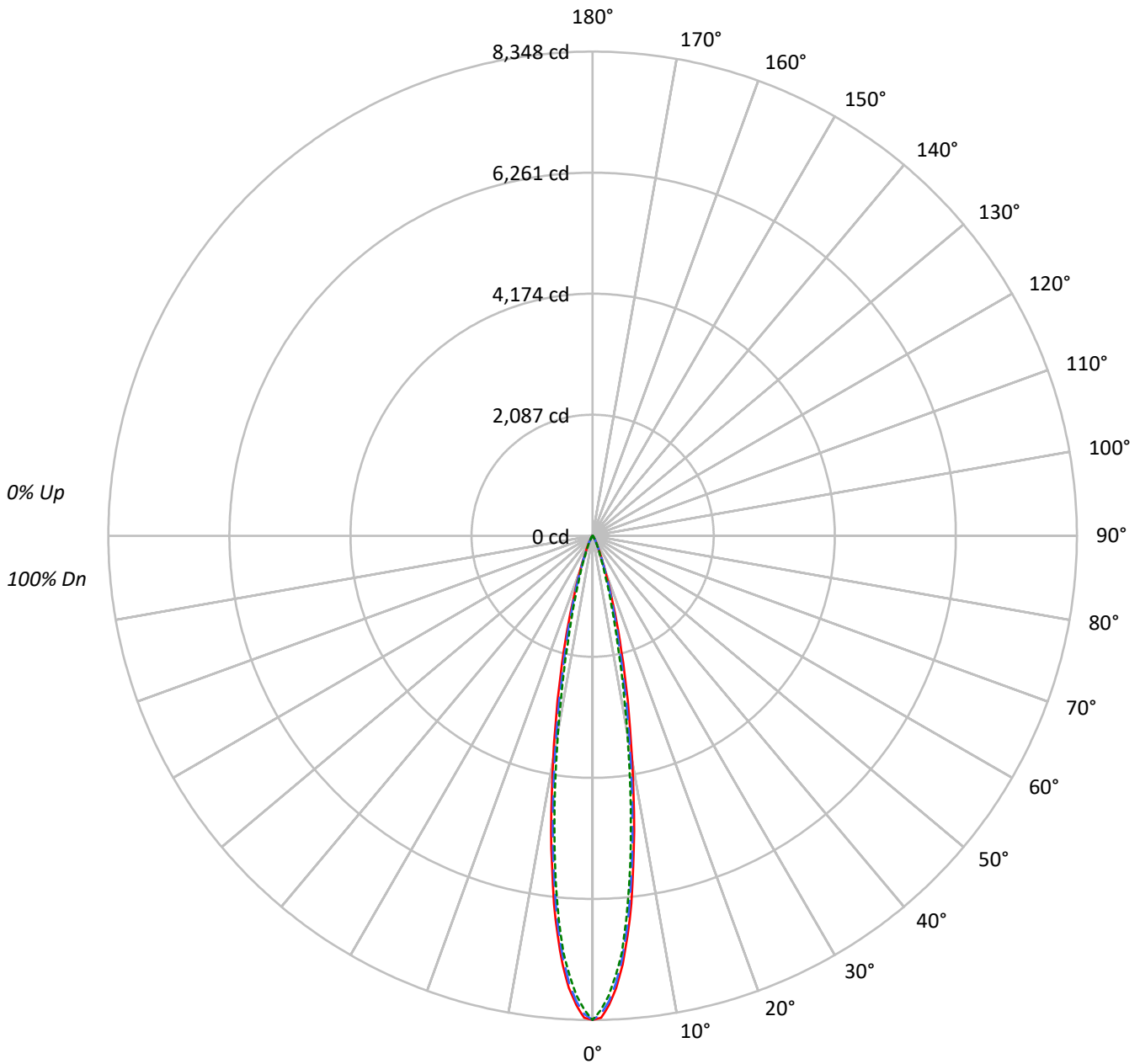
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	4118683	4118683	4118683
5°	3427204	3364357	3296459
10°	1963061	1842127	1719188
15°	873103	775444	649847
20°	316747	297794	235946
25°	121611	113554	97768
30°	52468	48765	43296
35°	24814	24814	20538
40°	12430	12881	10369
45°	7187	6768	6279
50°	4912	4452	4452
55°	3871	2752	3355
60°	3158	1875	2565
65°	2218	1518	2218
70°	1875	865	1875
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.0	48.1
10°-20°	439.4	38.9
20°-30°	106.0	9.4
30°-40°	27.0	2.4
40°-50°	8.1	0.7
50°-60°	3.4	0.3
60°-70°	1.7	0.1
70°-80°	0.5	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°	1088.3	96.4
0°-40°	1115.3	98.8
0°-60°	1126.8	99.8
0°-90°	1129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8348	8348	8348	8348	8348	
5°	6920	6856	6793	6734	6656	560
15°	1709	1669	1518	1368	1272	487
25°	223	225	209	189	180	115
35°	41	42	41	37	34	28
45°	10	10	10	9	9	9
55°	4	4	3	3	4	4
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°	8348.2	8348.2	8348.2	8348.2	8348.2
1°	8310.9	8252.9	8245.9	8281.9	8175.7
2°	8098.4	8057.2	8033.4	8054.6	7934.2
3°	7806.7	7766.8	7723.7	7724.3	7589.8
4°	7409.5	7377.9	7305.2	7283.3	7205.4
5°	6920.2	6856.4	6793.3	6734.1	6656.2
6°	6379.3	6296.9	6206.8	6118.6	6038.7
7°	5743.2	5688.5	5569.3	5448.9	5381.3
8°	5145.0	5056.8	4917.8	4767.1	4709.8
9°	4501.8	4438.7	4279.1	4103.9	4046.6
10°	3918.5	3852.8	3677.1	3482.0	3431.7
11°	3371.2	3309.4	3126.6	2921.8	2868.4
12°	2908.3	2820.7	2610.8	2433.1	2381.0
13°	2447.3	2387.4	2188.5	2012.7	1911.6
14°	2055.2	2005.6	1825.3	1670.8	1563.9
15°	1709.4	1668.9	1518.2	1367.5	1272.3
16°	1402.3	1377.2	1258.1	1112.6	1034.7
17°	1137.7	1114.5	1038.5	904.6	838.9
18°	918.8	915.6	852.5	736.6	678.0
19°	755.9	754.6	696.7	599.4	551.1
20°	603.3	611.7	567.2	482.2	449.4
21°	491.9	496.4	461.0	396.6	367.0
22°	400.5	403.7	380.5	327.7	311.6
23°	328.4	330.3	311.0	271.7	257.5
24°	270.4	271.7	254.3	226.6	214.4
25°	223.4	224.7	208.6	189.3	179.6
26°	185.4	186.7	172.6	159.0	149.4
27°	153.9	156.5	142.3	133.9	123.6
28°	131.3	132.0	119.1	114.0	104.3
29°	107.5	111.4	100.4	95.9	88.9
30°	92.1	94.0	85.6	82.4	76.0
32.5°	61.2	62.5	58.6	56.0	50.9
35°	41.2	41.9	41.2	37.3	34.1
37.5°	28.3	28.3	29.0	24.5	23.2
40°	19.3	19.3	20.0	16.7	16.1
42.5°	14.2	14.2	13.5	11.6	11.6
45°	10.3	10.3	9.7	9.0	9.0
47.5°	8.4	7.7	7.1	7.1	7.1
50°	6.4	6.4	5.8	5.2	5.8
52.5°	5.2	5.2	4.5	4.5	4.5
55°	4.5	3.9	3.2	3.2	3.9
57.5°	3.2	3.2	2.6	2.6	3.2
60°	3.2	2.6	1.9	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.9	1.3	1.3	1.3	1.3
70°	1.3	1.3	0.6	0.6	1.3
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°	2.6	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.3	1.3	1.9



(END OF REPORT)