

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: P282340

Luminaire Tested: **LDA2B159040D010 EU2B15NFL259040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282340
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 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: 1117.5 lumens
Efficiency: N/A
Efficacy: 79.3 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

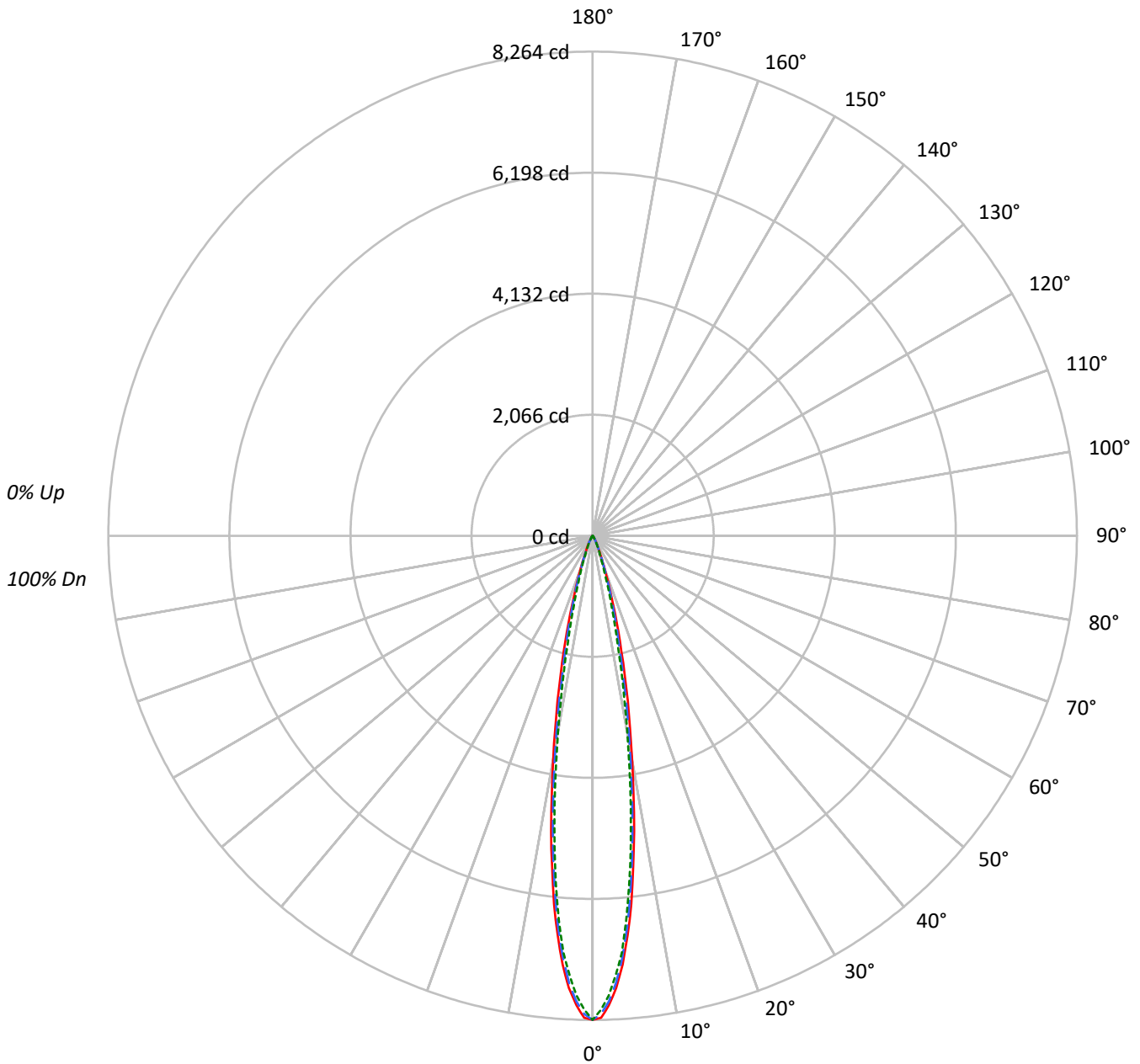
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4076895	4076895	4076895
5°	3392388	3330185	3262980
10°	1943123	1823390	1701754
15°	864267	767579	643207
20°	313545	294801	233531
25°	120359	112411	96788
30°	51898	48309	42840
35°	24573	24573	20357
40°	12301	12752	10240
45°	7117	6698	6210
50°	4912	4375	4375
55°	3871	2752	3269
60°	3158	1875	2467
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°	537.5	48.1
10°-20°	434.9	38.9
20°-30°	104.9	9.4
30°-40°	26.7	2.4
40°-50°	8.0	0.7
50°-60°	3.4	0.3
60°-70°	1.6	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°	1077.3	96.4
0°-40°	1104.0	98.8
0°-60°	1115.4	99.8
0°-90°	1117.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8264	8264	8264	8264	8264	
5°	6850	6787	6724	6666	6589	554
15°	1692	1652	1503	1354	1259	482
25°	221	222	206	187	178	114
35°	41	41	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°	8263.5	8263.5	8263.5	8263.5	8263.5
1°	8226.5	8169.1	8162.1	8197.8	8092.7
2°	8016.2	7975.4	7951.8	7972.9	7853.7
3°	7727.5	7688.0	7645.3	7645.9	7512.7
4°	7334.3	7303.0	7231.0	7209.3	7132.2
5°	6849.9	6786.8	6724.3	6665.7	6588.6
6°	6314.6	6233.0	6143.8	6056.4	5977.4
7°	5684.9	5630.7	5512.8	5393.6	5326.7
8°	5092.8	5005.5	4867.8	4718.7	4662.0
9°	4456.1	4393.7	4235.6	4062.3	4005.5
10°	3878.7	3813.7	3639.7	3446.6	3396.9
11°	3337.0	3275.8	3094.8	2892.2	2839.3
12°	2878.8	2792.1	2584.3	2408.4	2356.8
13°	2422.4	2363.2	2166.2	1992.3	1892.2
14°	2034.3	1985.2	1806.8	1653.8	1548.0
15°	1692.1	1651.9	1502.8	1353.7	1259.3
16°	1388.1	1363.2	1245.3	1101.3	1024.2
17°	1126.1	1103.2	1028.0	895.4	830.4
18°	909.5	906.3	843.8	729.1	671.1
19°	748.2	746.9	689.6	593.3	545.5
20°	597.2	605.5	561.5	477.4	444.8
21°	486.9	491.4	456.3	392.6	363.3
22°	396.4	399.6	376.7	324.4	308.5
23°	325.0	326.9	307.8	268.9	254.9
24°	267.7	268.9	251.7	224.3	212.2
25°	221.1	222.4	206.5	187.4	177.8
26°	183.5	184.8	170.8	157.4	147.9
27°	152.3	154.9	140.8	132.6	122.4
28°	130.0	130.7	117.9	112.8	103.2
29°	106.4	110.3	99.4	95.0	87.9
30°	91.1	93.0	84.8	81.6	75.2
32.5°	60.5	61.8	58.0	55.4	50.3
35°	40.8	41.4	40.8	37.0	33.8
37.5°	28.0	28.0	28.7	24.2	22.9
40°	19.1	19.1	19.8	16.6	15.9
42.5°	14.0	14.0	13.4	11.5	11.5
45°	10.2	10.2	9.6	8.9	8.9
47.5°	8.3	7.6	7.0	7.0	7.0
50°	6.4	6.4	5.7	5.1	5.7
52.5°	5.1	5.1	4.5	4.5	4.5
55°	4.5	3.8	3.2	3.2	3.8
57.5°	3.2	3.2	2.5	2.5	3.2
60°	3.2	2.5	1.9	2.5	2.5



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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°	2.5	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.3	1.3	1.9



(END OF REPORT)