

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: P282339

Luminaire Tested: **LDA2B159040D010 EU2B15NFL259040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282339
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1116.9 lumens
Efficiency: N/A
Efficacy: 79.2 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

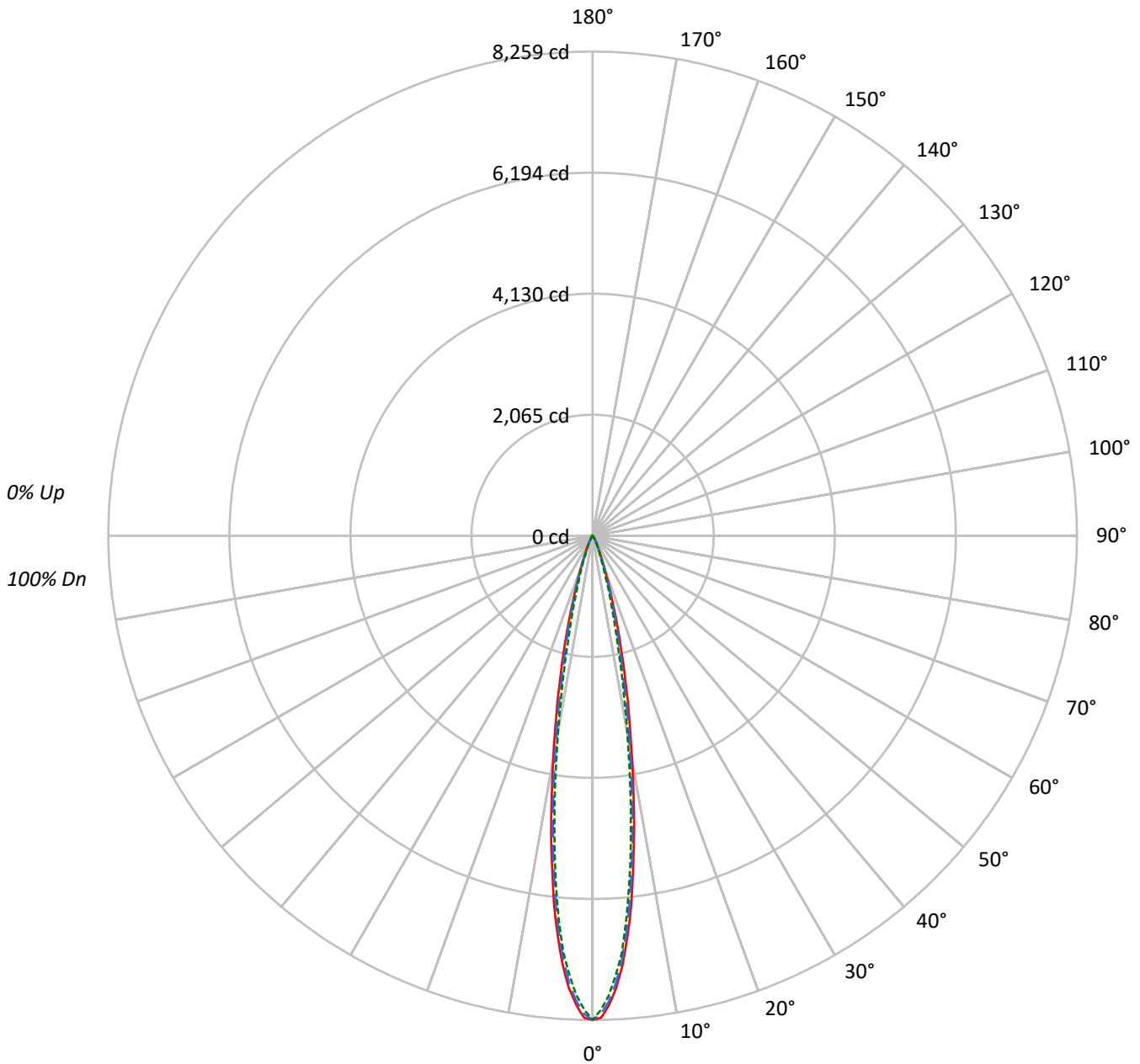
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4074576	4074576	4074576
5°	3390457	3328303	3261098
10°	1942021	1822388	1700802
15°	863756	767119	642850
20°	313335	294644	233426
25°	120305	112357	96734
30°	51898	48252	42840
35°	24573	24573	20357
40°	12301	12688	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°	537.1	48.1
10°-20°	434.7	38.9
20°-30°	104.8	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°	1076.7	96.4
0°-40°	1103.4	98.8
0°-60°	1114.7	99.8
0°-90°	1116.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8259	8259	8259	8259	8259	
5°	6846	6783	6720	6662	6585	554
15°	1691	1651	1502	1353	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°	8258.8	8258.8	8258.8	8258.8	8258.8
1°	8221.8	8164.5	8157.5	8193.2	8088.1
2°	8011.6	7970.9	7947.3	7968.3	7849.2
3°	7723.1	7683.6	7640.9	7641.6	7508.4
4°	7330.1	7298.9	7226.9	7205.2	7128.2
5°	6846.0	6782.9	6720.5	6661.9	6584.8
6°	6311.0	6229.4	6140.3	6053.0	5974.0
7°	5681.6	5627.5	5509.7	5390.6	5323.7
8°	5089.9	5002.6	4865.1	4716.0	4659.3
9°	4453.6	4391.2	4233.2	4060.0	4003.3
10°	3876.5	3811.5	3637.7	3444.7	3395.0
11°	3335.1	3274.0	3093.1	2890.5	2837.6
12°	2877.1	2790.5	2582.9	2407.1	2355.5
13°	2421.1	2361.8	2165.0	1991.1	1891.1
14°	2033.2	1984.1	1805.8	1652.9	1547.2
15°	1691.1	1651.0	1501.9	1352.9	1258.6
16°	1387.3	1362.4	1244.6	1100.7	1023.6
17°	1125.5	1102.6	1027.4	894.9	830.0
18°	908.9	905.8	843.3	728.7	670.7
19°	747.8	746.5	689.2	593.0	545.2
20°	596.8	605.1	561.2	477.1	444.6
21°	486.6	491.1	456.1	392.4	363.1
22°	396.2	399.4	376.4	324.2	308.3
23°	324.8	326.8	307.6	268.8	254.8
24°	267.5	268.8	251.6	224.2	212.1
25°	221.0	222.3	206.4	187.3	177.7
26°	183.4	184.7	170.7	157.3	147.8
27°	152.2	154.8	140.8	132.5	122.3
28°	129.9	130.6	117.8	112.7	103.2
29°	106.4	110.2	99.4	94.9	87.9
30°	91.1	93.0	84.7	81.5	75.2
32.5°	60.5	61.8	58.0	55.4	50.3
35°	40.8	41.4	40.8	36.9	33.8
37.5°	28.0	28.0	28.7	24.2	22.9
40°	19.1	19.1	19.7	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)