

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: P282334

Luminaire Tested: **LDA2B159035D010 EU2B15NFL259035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282334
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: LDA2B159035D010 EU2B15NFL259035 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: 1094.3 lumens
Efficiency: N/A
Efficacy: 77.6 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

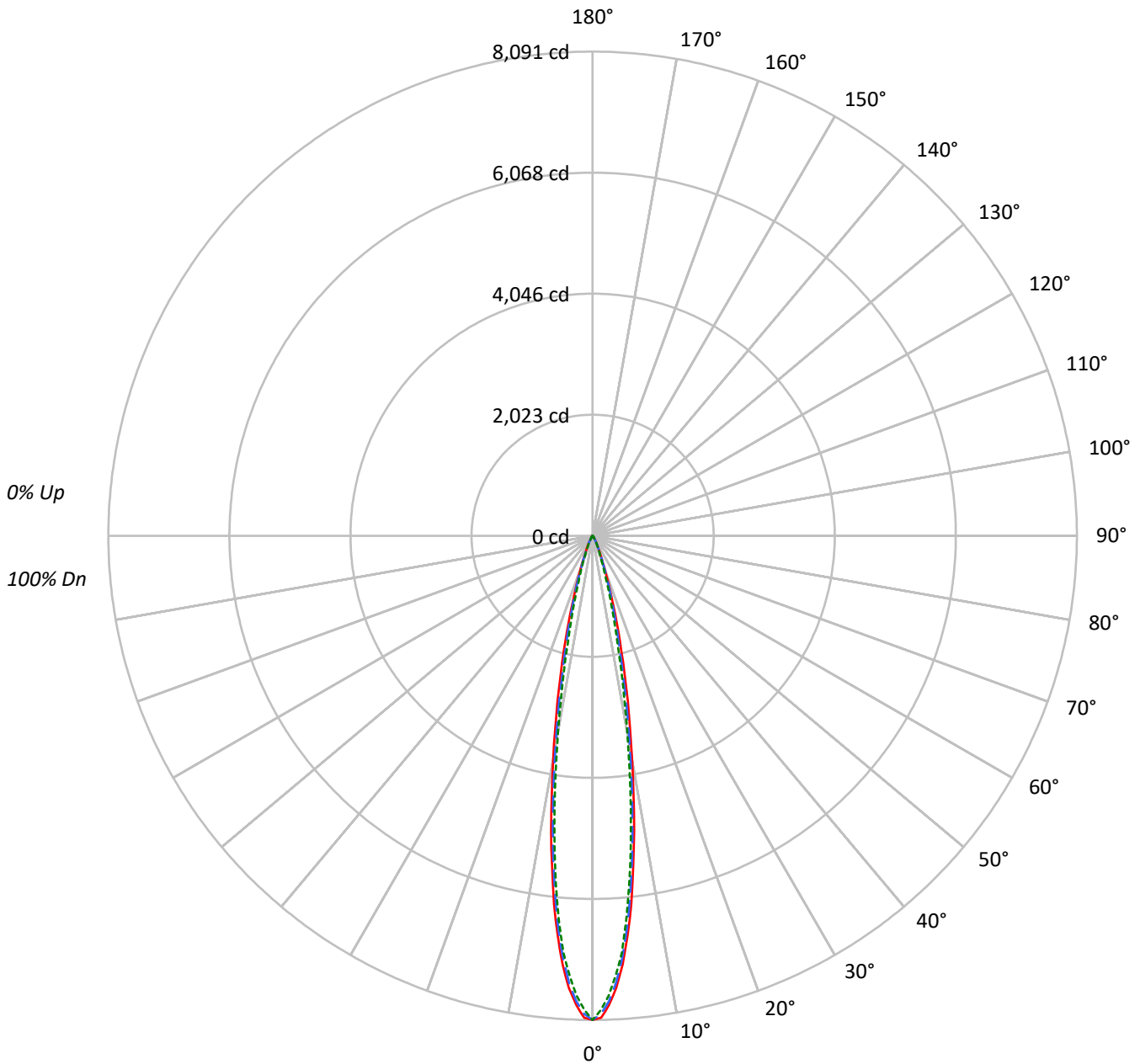
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3991988	3991988	3991988
5°	3321766	3260900	3195032
10°	1902694	1785467	1666335
15°	846288	751592	629825
20°	306982	288659	228701
25°	117855	110071	94774
30°	50816	47284	41929
35°	24031	24031	19936
40°	12044	12430	10047
45°	6977	6559	6070
50°	4759	4298	4298
55°	3785	2666	3183
60°	3059	1875	2467
65°	2218	1401	2218
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.3	48.1
10°-20°	425.9	38.9
20°-30°	102.7	9.4
30°-40°	26.2	2.4
40°-50°	7.8	0.7
50°-60°	3.3	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°	1054.8	96.4
0°-40°	1081.0	98.8
0°-60°	1092.1	99.8
0°-90°	1094.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8091	8091	8091	8091	8091	
5°	6707	6646	6584	6527	6451	542
15°	1657	1618	1472	1326	1233	472
25°	216	218	202	184	174	112
35°	40	41	40	36	33	28
45°	10	10	9	9	9	8
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°	8091.4	8091.4	8091.4	8091.4	8091.4
1°	8055.3	7999.1	7992.2	8027.2	7924.2
2°	7849.3	7809.4	7786.3	7806.9	7690.2
3°	7566.6	7527.9	7486.1	7486.7	7356.3
4°	7181.6	7151.0	7080.5	7059.3	6983.8
5°	6707.3	6645.5	6584.4	6527.0	6451.4
6°	6183.1	6103.2	6015.9	5930.4	5853.0
7°	5566.5	5513.5	5398.0	5281.3	5215.8
8°	4986.8	4901.3	4766.5	4620.5	4564.9
9°	4363.4	4302.2	4147.4	3977.7	3922.2
10°	3798.0	3734.3	3564.0	3374.9	3326.2
11°	3267.5	3207.6	3030.4	2831.9	2780.1
12°	2818.8	2734.0	2530.5	2358.3	2307.7
13°	2372.0	2314.0	2121.2	1950.8	1852.8
14°	1992.0	1943.9	1769.2	1619.4	1515.8
15°	1656.9	1617.5	1471.5	1325.5	1233.1
16°	1359.2	1334.8	1219.4	1078.4	1002.9
17°	1102.7	1080.2	1006.6	876.8	813.1
18°	890.5	887.4	826.2	713.9	657.1
19°	732.6	731.4	675.2	581.0	534.2
20°	584.7	592.8	549.8	467.4	435.6
21°	476.8	481.1	446.8	384.4	355.7
22°	388.2	391.3	368.8	317.6	302.0
23°	318.3	320.1	301.4	263.3	249.6
24°	262.1	263.3	246.5	219.7	207.8
25°	216.5	217.8	202.2	183.5	174.1
26°	179.7	181.0	167.2	154.1	144.8
27°	149.1	151.6	137.9	129.8	119.8
28°	127.3	127.9	115.4	110.5	101.1
29°	104.2	108.0	97.4	93.0	86.1
30°	89.2	91.1	83.0	79.9	73.6
32.5°	59.3	60.5	56.8	54.3	49.3
35°	39.9	40.6	39.9	36.2	33.1
37.5°	27.5	27.5	28.1	23.7	22.5
40°	18.7	18.7	19.3	16.2	15.6
42.5°	13.7	13.7	13.1	11.2	11.2
45°	10.0	10.0	9.4	8.7	8.7
47.5°	8.1	7.5	6.9	6.9	6.9
50°	6.2	6.2	5.6	5.0	5.6
52.5°	5.0	5.0	4.4	4.4	4.4
55°	4.4	3.7	3.1	3.1	3.7
57.5°	3.1	3.1	2.5	2.5	3.1
60°	3.1	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	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
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	1.2	1.2	1.9



(END OF REPORT)