

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: P282344

Luminaire Tested: **LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282344
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: LDA2B159050D010 EU2B15NFL259050 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: 1159.9 lumens
Efficiency: N/A
Efficacy: 82.3 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

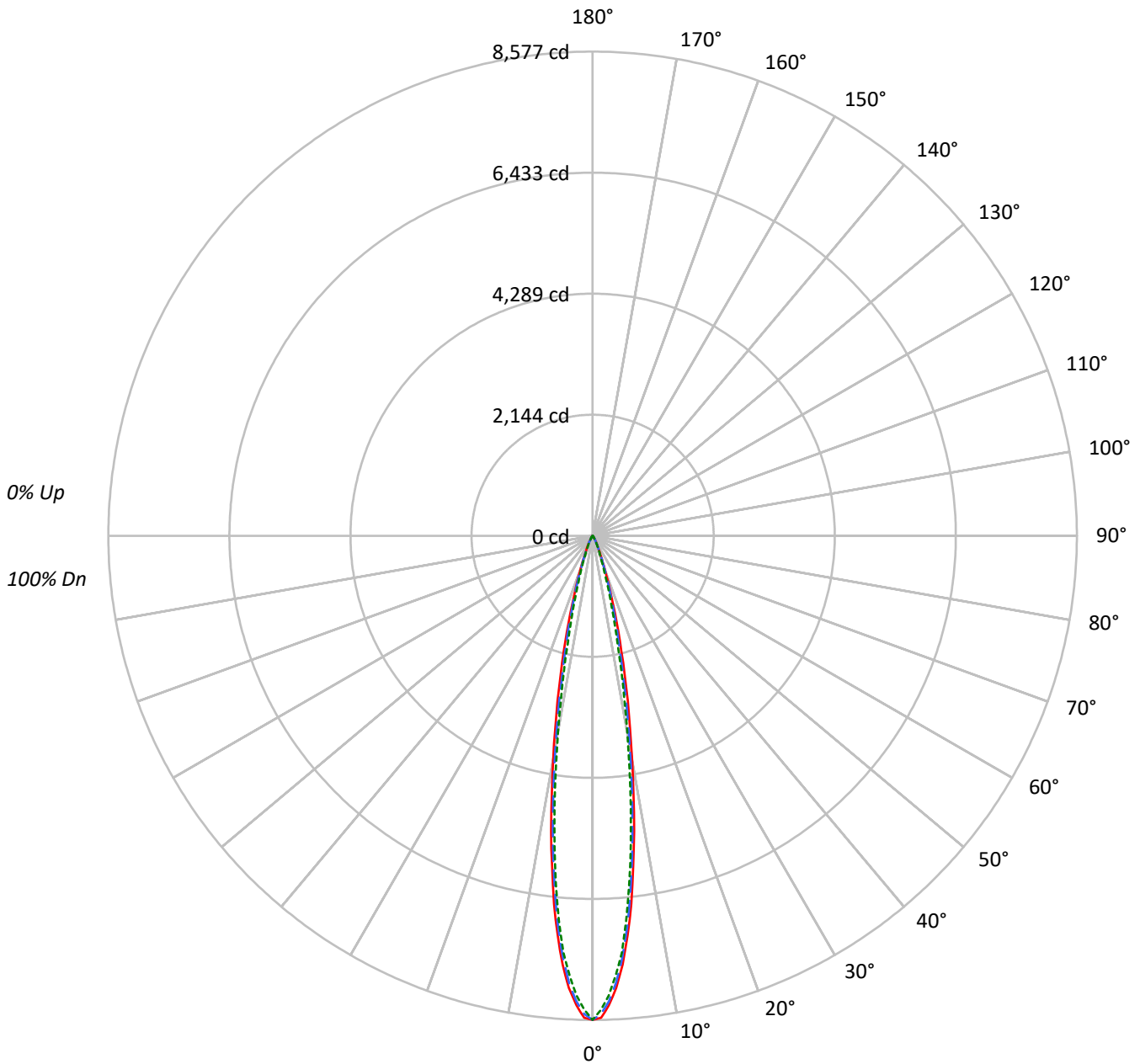
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4231367	4231367	4231367
5°	3520954	3456423	3386643
10°	2016766	1892525	1766229
15°	897007	796641	667622
20°	325410	305984	242404
25°	124932	116657	100490
30°	53892	50132	44492
35°	25477	25477	21140
40°	12752	13203	10627
45°	7396	6907	6489
50°	5066	4605	4605
55°	3957	2838	3441
60°	3256	1973	2565
65°	2335	1518	2335
70°	1875	1010	1875
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.8	48.1
10°-20°	451.4	38.9
20°-30°	108.9	9.4
30°-40°	27.7	2.4
40°-50°	8.3	0.7
50°-60°	3.5	0.3
60°-70°	1.7	0.1
70°-80°	0.6	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°	1118.1	96.4
0°-40°	1145.8	98.8
0°-60°	1157.6	99.8
0°-90°	1159.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8577	8577	8577	8577	8577	
5°	7110	7044	6979	6918	6838	575
15°	1756	1714	1560	1405	1307	501
25°	230	231	214	194	185	119
35°	42	43	42	38	35	29
45°	11	11	10	9	9	9
55°	5	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°	8576.6	8576.6	8576.6	8576.6	8576.6
1°	8538.3	8478.7	8471.5	8508.5	8399.4
2°	8320.0	8277.6	8253.2	8275.0	8151.3
3°	8020.3	7979.3	7935.0	7935.7	7797.4
4°	7612.2	7579.8	7505.0	7482.6	7402.5
5°	7109.5	7044.0	6979.2	6918.3	6838.3
6°	6553.8	6469.2	6376.6	6286.0	6203.9
7°	5900.3	5844.1	5721.7	5598.0	5528.6
8°	5285.8	5195.2	5052.3	4897.5	4838.7
9°	4625.0	4560.2	4396.1	4216.2	4157.3
10°	4025.7	3958.2	3777.7	3577.2	3525.6
11°	3463.5	3400.0	3212.1	3001.8	2946.9
12°	2987.9	2897.9	2682.3	2499.7	2446.1
13°	2514.2	2452.7	2248.3	2067.8	1963.9
14°	2111.4	2060.5	1875.3	1716.5	1606.7
15°	1756.2	1714.5	1559.7	1405.0	1307.1
16°	1440.7	1414.9	1292.5	1143.0	1063.0
17°	1168.8	1145.0	1067.0	929.4	861.9
18°	943.9	940.6	875.8	756.7	696.5
19°	776.6	775.2	715.7	615.8	566.2
20°	619.8	628.4	582.8	495.4	461.7
21°	505.4	510.0	473.6	407.5	377.0
22°	411.4	414.7	390.9	336.7	320.2
23°	337.3	339.3	319.5	279.1	264.6
24°	277.8	279.1	261.3	232.8	220.3
25°	229.5	230.9	214.3	194.5	184.6
26°	190.5	191.8	177.3	163.4	153.5
27°	158.1	160.7	146.2	137.6	127.0
28°	134.9	135.6	122.4	117.1	107.2
29°	110.5	114.4	103.2	98.6	91.3
30°	94.6	96.6	88.0	84.7	78.1
32.5°	62.8	64.2	60.2	57.5	52.3
35°	42.3	43.0	42.3	38.4	35.1
37.5°	29.1	29.1	29.8	25.1	23.8
40°	19.8	19.8	20.5	17.2	16.5
42.5°	14.6	14.6	13.9	11.9	11.9
45°	10.6	10.6	9.9	9.3	9.3
47.5°	8.6	7.9	7.3	7.3	7.3
50°	6.6	6.6	6.0	5.3	6.0
52.5°	5.3	5.3	4.6	4.6	4.6
55°	4.6	4.0	3.3	3.3	4.0
57.5°	3.3	3.3	2.6	2.6	3.3
60°	3.3	2.6	2.0	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.3	1.3	1.3	1.3
70°	1.3	1.3	0.7	0.7	1.3
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.3	1.3	2.0



(END OF REPORT)