

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: P282352

Luminaire Tested: **LDA2B159727D010 EU2B15NFL259727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282352
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: LDA2B159727D010 EU2B15NFL259727 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: 909.1 lumens
Efficiency: N/A
Efficacy: 64.5 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

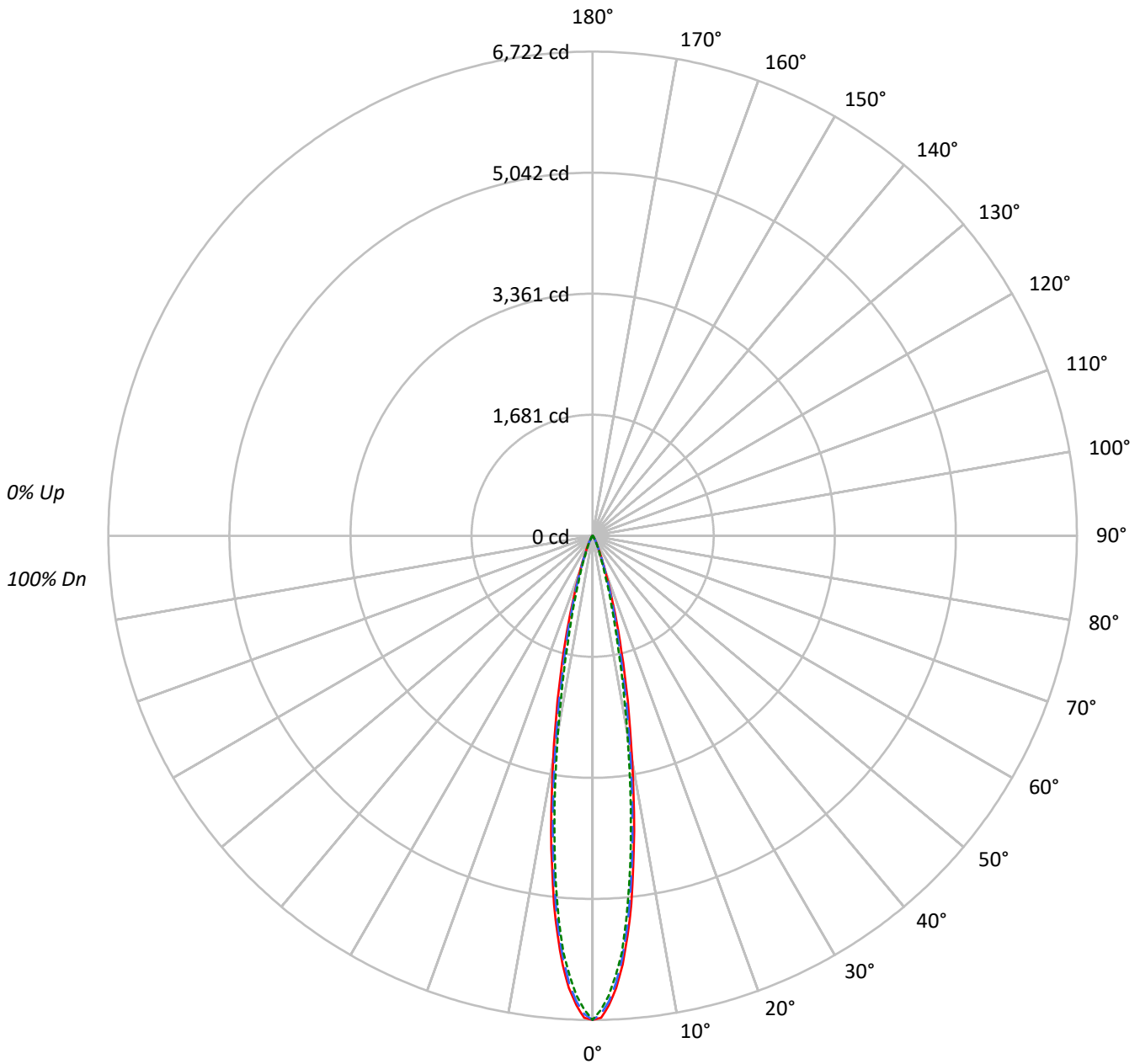
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3316279	3316279	3316279
5°	2759513	2708898	2654223
10°	1580619	1483230	1384288
15°	703018	624360	523228
20°	255057	239779	190006
25°	97931	91453	78715
30°	42214	39251	34865
35°	19996	19996	16563
40°	10047	10369	8372
45°	5791	5442	5093
50°	3991	3607	3607
55°	3097	2236	2666
60°	2565	1579	2072
65°	1868	1167	1868
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.2	48.1
10°-20°	353.8	38.9
20°-30°	85.3	9.4
30°-40°	21.8	2.4
40°-50°	6.5	0.7
50°-60°	2.8	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	876.3	96.4
0°-40°	898.0	98.8
0°-60°	907.3	99.8
0°-90°	909.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	909.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6722	6722	6722	6722	6722	
5°	5572	5521	5470	5422	5359	451
15°	1376	1344	1222	1101	1024	392
25°	180	181	168	152	145	93
35°	33	34	33	30	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6721.8	6721.8	6721.8	6721.8	6721.8
1°	6691.7	6645.1	6639.4	6668.4	6582.9
2°	6520.7	6487.5	6468.3	6485.4	6388.5
3°	6285.8	6253.7	6219.0	6219.5	6111.1
4°	5966.0	5940.6	5882.0	5864.4	5801.6
5°	5572.0	5520.6	5469.8	5422.1	5359.4
6°	5136.5	5070.1	4997.6	4926.5	4862.2
7°	4624.3	4580.2	4484.3	4387.4	4332.9
8°	4142.7	4071.7	3959.7	3838.4	3792.2
9°	3624.8	3574.0	3445.4	3304.4	3258.3
10°	3155.1	3102.2	2960.7	2803.6	2763.2
11°	2714.4	2664.7	2517.4	2352.6	2309.6
12°	2341.7	2271.2	2102.2	1959.1	1917.1
13°	1970.5	1922.3	1762.1	1620.6	1539.2
14°	1654.8	1614.9	1469.7	1345.3	1259.2
15°	1376.4	1343.7	1222.4	1101.1	1024.4
16°	1129.1	1108.9	1013.0	895.8	833.1
17°	916.0	897.4	836.2	728.4	675.5
18°	739.8	737.2	686.4	593.1	545.9
19°	608.6	607.6	560.9	482.6	443.8
20°	485.8	492.5	456.7	388.3	361.9
21°	396.1	399.7	371.2	319.3	295.5
22°	322.5	325.0	306.4	263.9	250.9
23°	264.4	265.9	250.4	218.8	207.4
24°	217.7	218.8	204.8	182.5	172.6
25°	179.9	180.9	168.0	152.4	144.6
26°	149.3	150.3	138.9	128.0	120.3
27°	123.9	126.0	114.6	107.8	99.5
28°	105.8	106.3	95.9	91.8	84.0
29°	86.6	89.7	80.9	77.2	71.5
30°	74.1	75.7	68.9	66.4	61.2
32.5°	49.2	50.3	47.2	45.1	41.0
35°	33.2	33.7	33.2	30.1	27.5
37.5°	22.8	22.8	23.3	19.7	18.7
40°	15.6	15.6	16.1	13.5	13.0
42.5°	11.4	11.4	10.9	9.3	9.3
45°	8.3	8.3	7.8	7.3	7.3
47.5°	6.7	6.2	5.7	5.7	5.7
50°	5.2	5.2	4.7	4.1	4.7
52.5°	4.1	4.1	3.6	3.6	3.6
55°	3.6	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.0	1.0	1.6



(END OF REPORT)