

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: P282350

Luminaire Tested: **LDA2B159727D010 EU2B15NFL259727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282350
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 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: 918.4 lumens
Efficiency: N/A
Efficacy: 65.1 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

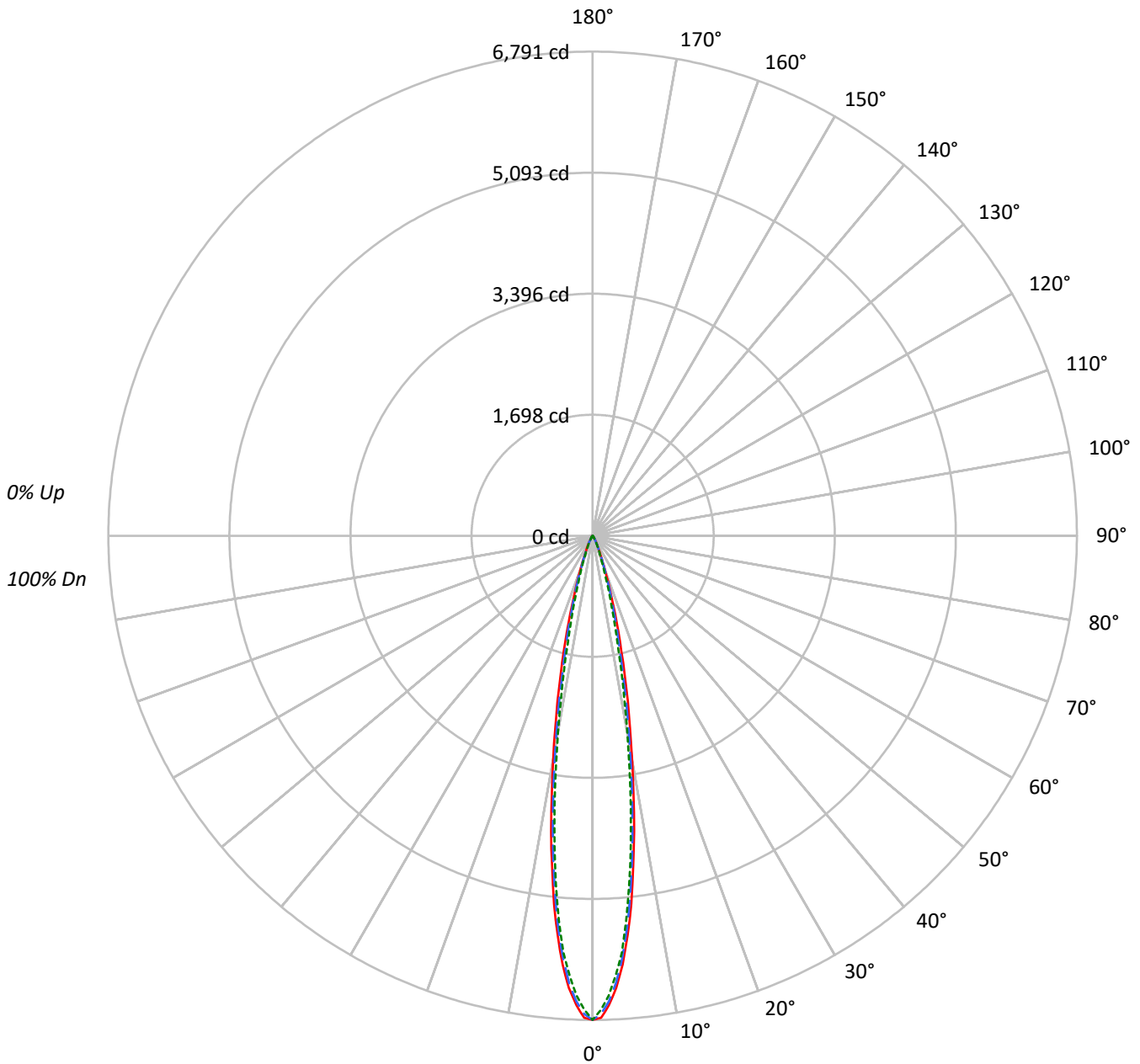
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3350321	3350321	3350321
5°	2787791	2736682	2681462
10°	1596850	1498459	1398465
15°	710220	630796	528591
20°	257630	242246	191949
25°	98911	92379	79532
30°	42669	39707	35207
35°	20176	20176	16743
40°	10111	10433	8437
45°	5861	5512	5093
50°	3991	3607	3607
55°	3183	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°	441.7	48.1
10°-20°	357.4	38.9
20°-30°	86.2	9.4
30°-40°	22.0	2.4
40°-50°	6.6	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°	885.3	96.4
0°-40°	907.3	98.8
0°-60°	916.6	99.8
0°-90°	918.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6791	6791	6791	6791	6791	
5°	5629	5577	5526	5478	5414	455
15°	1390	1358	1235	1112	1035	396
25°	182	183	170	154	146	94
35°	34	34	34	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°	6790.8	6790.8	6790.8	6790.8	6790.8
1°	6760.4	6713.2	6707.5	6736.8	6650.4
2°	6587.6	6554.0	6534.7	6551.9	6454.0
3°	6350.3	6317.8	6282.7	6283.3	6173.8
4°	6027.2	6001.5	5942.3	5924.5	5861.1
5°	5629.1	5577.3	5525.9	5477.8	5414.4
6°	5189.2	5122.1	5048.8	4977.1	4912.1
7°	4671.7	4627.2	4530.3	4432.4	4377.4
8°	4185.2	4113.4	4000.3	3877.7	3831.1
9°	3662.0	3610.6	3480.7	3338.3	3291.7
10°	3187.5	3134.0	2991.1	2832.4	2791.5
11°	2742.3	2692.0	2543.3	2376.7	2333.2
12°	2365.7	2294.5	2123.7	1979.2	1936.8
13°	1990.7	1942.0	1780.2	1637.2	1555.0
14°	1671.8	1631.4	1484.8	1359.1	1272.2
15°	1390.5	1357.5	1235.0	1112.4	1034.9
16°	1140.7	1120.3	1023.4	905.0	841.6
17°	925.4	906.6	844.8	735.8	682.4
18°	747.4	744.8	693.4	599.2	551.5
19°	614.9	613.8	566.7	487.6	448.3
20°	490.7	497.5	461.4	392.3	365.6
21°	400.1	403.8	375.0	322.6	298.5
22°	325.8	328.4	309.5	266.6	253.5
23°	267.1	268.7	253.0	221.0	209.5
24°	220.0	221.0	206.9	184.4	174.4
25°	181.7	182.8	169.7	154.0	146.1
26°	150.8	151.9	140.4	129.4	121.5
27°	125.2	127.3	115.7	108.9	100.6
28°	106.8	107.4	96.9	92.7	84.8
29°	87.5	90.6	81.7	78.0	72.3
30°	74.9	76.5	69.7	67.0	61.8
32.5°	49.8	50.8	47.7	45.6	41.4
35°	33.5	34.0	33.5	30.4	27.8
37.5°	23.0	23.0	23.6	19.9	18.9
40°	15.7	15.7	16.2	13.6	13.1
42.5°	11.5	11.5	11.0	9.4	9.4
45°	8.4	8.4	7.9	7.3	7.3
47.5°	6.8	6.3	5.8	5.8	5.8
50°	5.2	5.2	4.7	4.2	4.7
52.5°	4.2	4.2	3.7	3.7	3.7
55°	3.7	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)