

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: P282356

Luminaire Tested: **LDA2B159730D010 EU2B15NFL259730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282356
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: LDA2B159730D010 EU2B15NFL259730 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: 977.5 lumens
Efficiency: N/A
Efficacy: 69.3 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

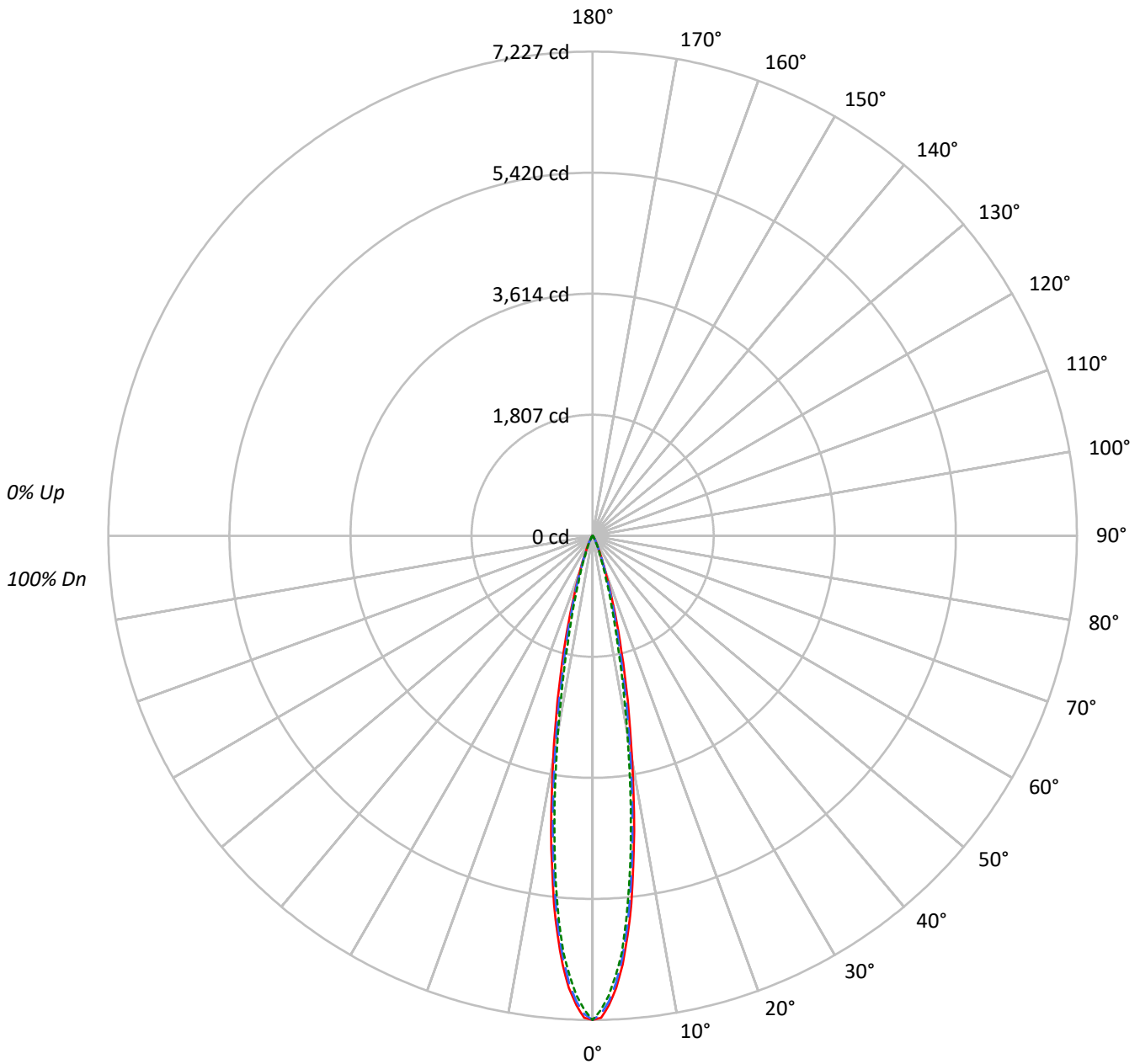
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3565674	3565674	3565674
5°	2967021	2912643	2853857
10°	1699500	1594796	1488390
15°	755882	671350	562557
20°	274220	257840	204287
25°	105280	98312	84649
30°	45404	42214	37485
35°	21502	21502	17767
40°	10755	11142	8952
45°	6210	5861	5442
50°	4298	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.1	48.1
10°-20°	380.4	38.9
20°-30°	91.7	9.4
30°-40°	23.4	2.4
40°-50°	7.0	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	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°	942.2	96.4
0°-40°	965.6	98.8
0°-60°	975.5	99.8
0°-90°	977.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7227	7227	7227	7227	7227	
5°	5991	5936	5881	5830	5762	484
15°	1480	1445	1314	1184	1101	422
25°	193	194	181	164	156	100
35°	36	36	36	32	30	25
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
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°	7227.3	7227.3	7227.3	7227.3	7227.3
1°	7195.0	7144.8	7138.7	7169.9	7078.0
2°	7011.1	6975.4	6954.8	6973.2	6868.9
3°	6758.6	6724.0	6686.7	6687.2	6570.7
4°	6414.6	6387.3	6324.3	6305.4	6237.9
5°	5991.0	5935.8	5881.2	5829.9	5762.5
6°	5522.8	5451.4	5373.4	5297.0	5227.9
7°	4972.1	4924.7	4821.6	4717.3	4658.8
8°	4454.2	4377.9	4257.5	4127.0	4077.4
9°	3897.4	3842.8	3704.5	3552.9	3503.3
10°	3392.4	3335.5	3183.4	3014.5	2971.0
11°	2918.6	2865.1	2706.8	2529.5	2483.3
12°	2517.8	2442.0	2260.3	2106.4	2061.3
13°	2118.7	2066.9	1894.6	1742.5	1654.9
14°	1779.2	1736.3	1580.3	1446.5	1353.9
15°	1479.9	1444.8	1314.4	1183.9	1101.4
16°	1214.0	1192.3	1089.2	963.2	895.8
17°	984.9	964.9	899.1	783.2	726.3
18°	795.4	792.6	738.0	637.7	587.0
19°	654.4	653.3	603.1	518.9	477.1
20°	522.3	529.5	491.1	417.5	389.1
21°	425.9	429.8	399.1	343.4	317.7
22°	346.7	349.5	329.4	283.7	269.8
23°	284.3	286.0	269.2	235.2	223.0
24°	234.1	235.2	220.2	196.2	185.6
25°	193.4	194.5	180.6	163.9	155.5
26°	160.5	161.6	149.4	137.7	129.3
27°	133.2	135.5	123.2	115.9	107.0
28°	113.7	114.3	103.1	98.7	90.3
29°	93.1	96.4	87.0	83.1	76.9
30°	79.7	81.4	74.1	71.3	65.8
32.5°	53.0	54.1	50.7	48.5	44.0
35°	35.7	36.2	35.7	32.3	29.5
37.5°	24.5	24.5	25.1	21.2	20.1
40°	16.7	16.7	17.3	14.5	13.9
42.5°	12.3	12.3	11.7	10.0	10.0
45°	8.9	8.9	8.4	7.8	7.8
47.5°	7.2	6.7	6.1	6.1	6.1
50°	5.6	5.6	5.0	4.5	5.0
52.5°	4.5	4.5	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
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°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)