

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: P282326

Luminaire Tested: **LDA2B159030D010 EU2B15NFL259030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282326
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: LDA2B159030D010 EU2B15NFL259030 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: 1064.9 lumens
Efficiency: N/A
Efficacy: 75.5 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

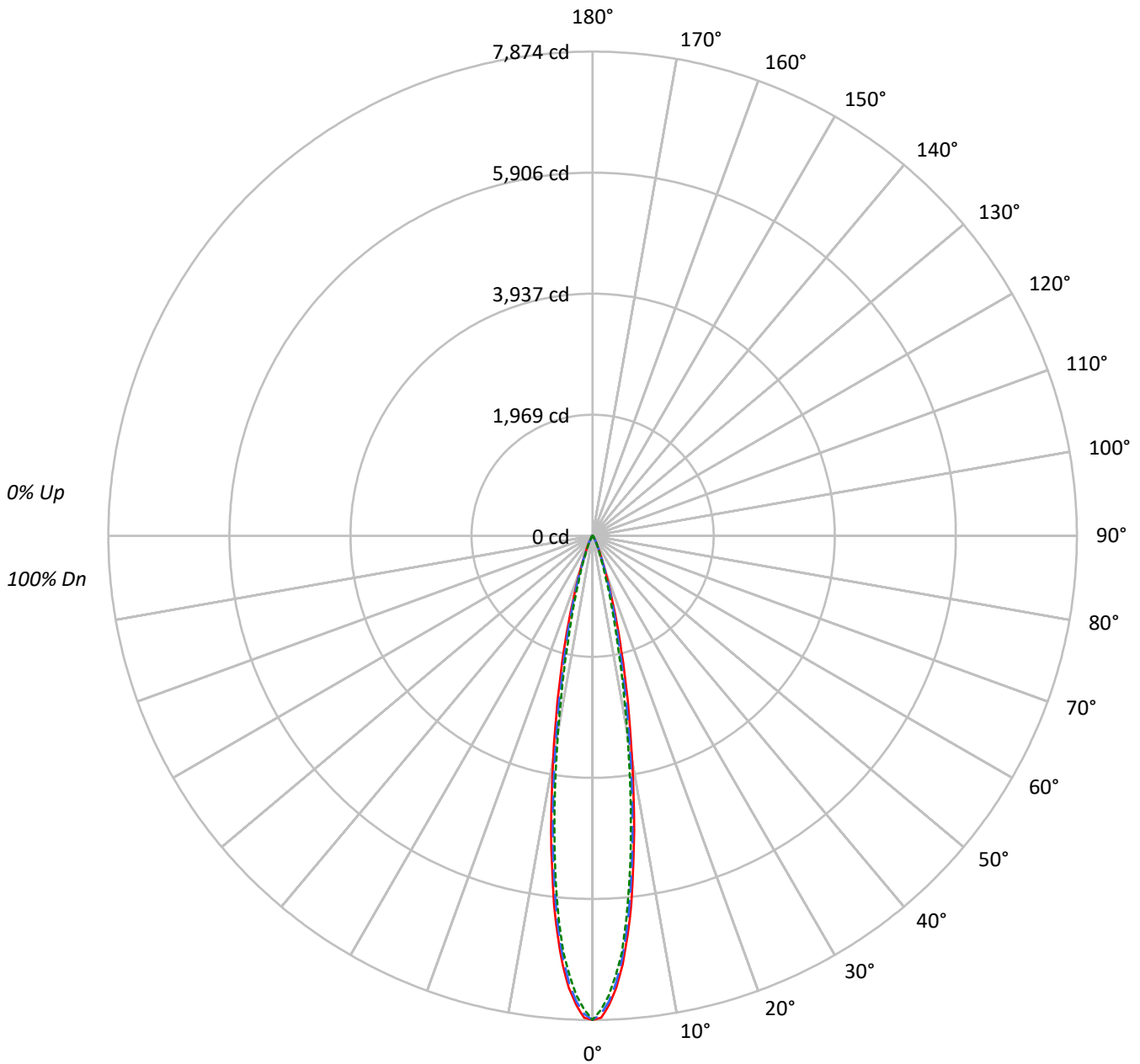
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
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°	3884681	3884681	3884681
5°	3232473	3173241	3109157
10°	1851545	1737423	1621548
15°	823508	731416	612919
20°	298739	280888	222558
25°	114698	107131	92215
30°	49449	46031	40846
35°	23429	23429	19394
40°	11721	12108	9789
45°	6768	6349	5931
50°	4682	4221	4221
55°	3699	2580	3097
60°	2960	1776	2368
65°	2101	1401	2101
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°	512.1	48.1
10°-20°	414.4	38.9
20°-30°	99.9	9.4
30°-40°	25.5	2.4
40°-50°	7.6	0.7
50°-60°	3.2	0.3
60°-70°	1.5	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°	1026.5	96.4
0°-40°	1052.0	98.8
0°-60°	1062.8	99.8
0°-90°	1064.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1064.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7874	7874	7874	7874	7874	
5°	6527	6467	6407	6352	6278	528
15°	1612	1574	1432	1290	1200	460
25°	211	212	197	178	169	109
35°	39	40	39	35	32	27
45°	10	10	9	8	8	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°	7873.9	7873.9	7873.9	7873.9	7873.9
1°	7838.7	7784.0	7777.4	7811.4	7711.2
2°	7638.3	7599.4	7577.0	7597.0	7483.4
3°	7363.2	7325.6	7284.9	7285.5	7158.6
4°	6988.5	6958.8	6890.1	6869.5	6796.0
5°	6527.0	6466.9	6407.4	6351.5	6278.0
6°	6016.9	5939.1	5854.1	5770.9	5695.6
7°	5416.9	5365.3	5252.9	5139.4	5075.6
8°	4852.7	4769.5	4638.4	4496.3	4442.2
9°	4246.1	4186.6	4035.9	3870.8	3816.7
10°	3695.9	3633.9	3468.1	3284.1	3236.8
11°	3179.7	3121.4	2948.9	2755.8	2705.4
12°	2743.1	2660.5	2462.5	2294.9	2245.7
13°	2308.3	2251.8	2064.1	1898.3	1803.0
14°	1938.4	1891.7	1721.6	1575.9	1475.1
15°	1612.3	1574.1	1432.0	1289.9	1200.0
16°	1322.6	1299.0	1186.6	1049.4	975.9
17°	1073.1	1051.2	979.5	853.2	791.3
18°	866.6	863.5	804.0	694.7	639.5
19°	712.9	711.7	657.1	565.4	519.8
20°	569.0	576.9	535.0	454.8	423.9
21°	464.0	468.2	434.8	374.1	346.1
22°	377.7	380.8	358.9	309.1	293.9
23°	309.7	311.5	293.3	256.3	242.9
24°	255.1	256.3	239.9	213.8	202.2
25°	210.7	211.9	196.8	178.5	169.4
26°	174.9	176.1	162.7	150.0	140.9
27°	145.1	147.6	134.2	126.3	116.6
28°	123.9	124.5	112.3	107.5	98.4
29°	101.4	105.1	94.7	90.5	83.8
30°	86.8	88.7	80.8	77.7	71.7
32.5°	57.7	58.9	55.3	52.8	48.0
35°	38.9	39.5	38.9	35.2	32.2
37.5°	26.7	26.7	27.3	23.1	21.9
40°	18.2	18.2	18.8	15.8	15.2
42.5°	13.4	13.4	12.8	10.9	10.9
45°	9.7	9.7	9.1	8.5	8.5
47.5°	7.9	7.3	6.7	6.7	6.7
50°	6.1	6.1	5.5	4.9	5.5
52.5°	4.9	4.9	4.3	4.3	4.3
55°	4.3	3.6	3.0	3.0	3.6
57.5°	3.0	3.0	2.4	2.4	3.0
60°	3.0	2.4	1.8	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	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°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)