

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: P282314

Luminaire Tested: **LDA2B159024D010 EU2B15NFL259024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282314
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: LDA2B159024D010 EU2B15NFL259024 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: 947.2 lumens
Efficiency: N/A
Efficacy: 67.2 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

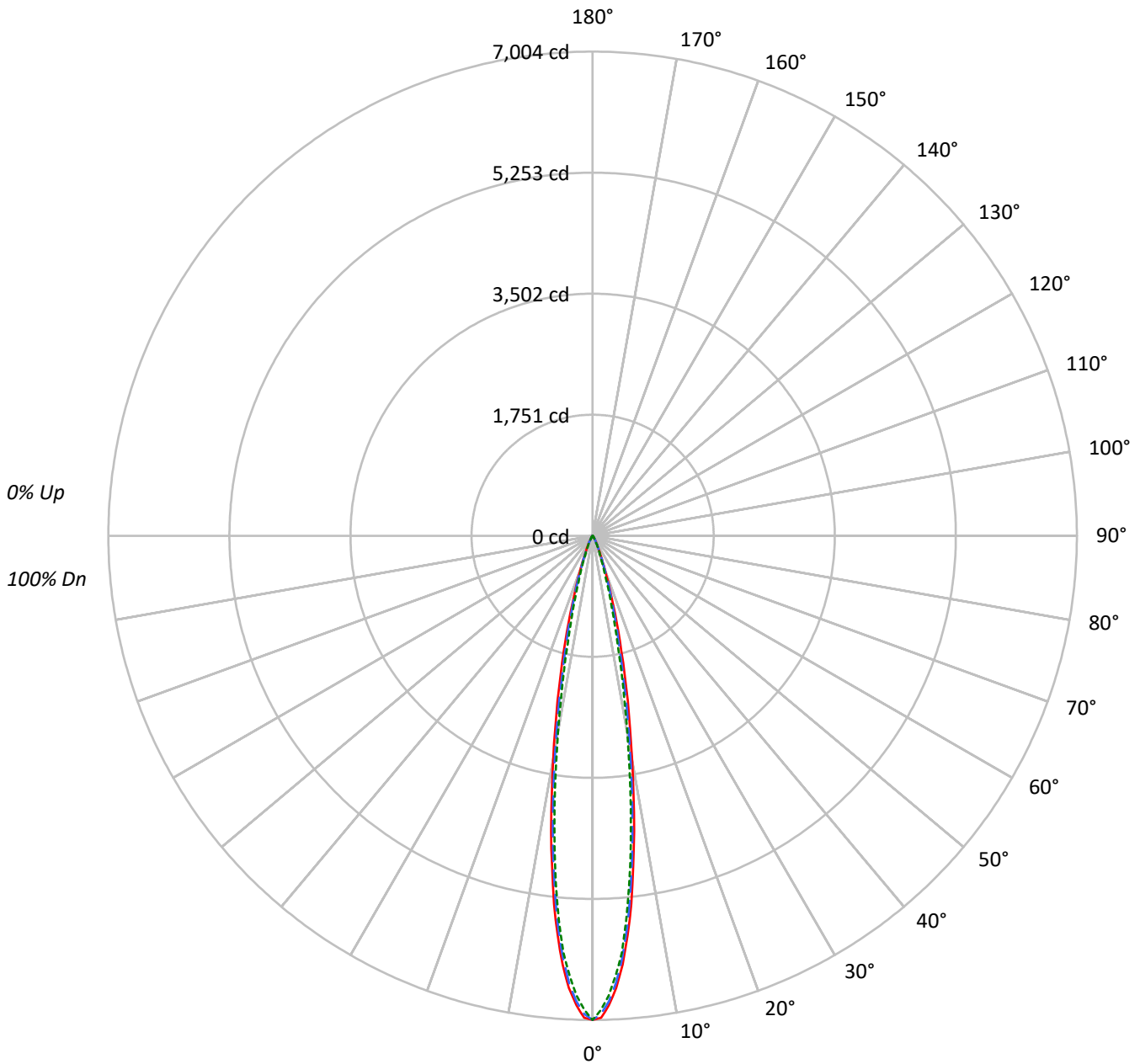
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3455703	3455703	3455703
5°	2875499	2822805	2765802
10°	1647048	1545551	1442451
15°	732591	650613	545242
20°	265767	249859	197987
25°	102068	95264	82036
30°	44037	40903	36289
35°	20839	20839	17225
40°	10433	10755	8695
45°	6000	5652	5303
50°	4145	3761	3761
55°	3269	2322	2752
60°	2664	1579	2171
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.6	48.1
10°-20°	368.7	38.9
20°-30°	88.9	9.4
30°-40°	22.7	2.4
40°-50°	6.7	0.7
50°-60°	2.9	0.3
60°-70°	1.4	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°	913.1	96.4
0°-40°	935.8	98.8
0°-60°	945.4	99.8
0°-90°	947.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7004	7004	7004	7004	7004	
5°	5806	5753	5700	5650	5585	470
15°	1434	1400	1274	1147	1068	409
25°	188	188	175	159	151	97
35°	35	35	35	31	29	24
45°	9	9	8	8	8	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°	7004.4	7004.4	7004.4	7004.4	7004.4
1°	6973.0	6924.4	6918.5	6948.7	6859.6
2°	6794.8	6760.2	6740.2	6758.0	6657.0
3°	6550.1	6516.6	6480.4	6480.9	6368.0
4°	6216.7	6190.3	6129.2	6110.9	6045.5
5°	5806.2	5752.7	5699.8	5650.1	5584.7
6°	5352.4	5283.3	5207.6	5133.6	5066.6
7°	4818.7	4772.8	4672.8	4571.8	4515.1
8°	4316.8	4242.8	4126.1	3999.7	3951.6
9°	3777.2	3724.2	3590.2	3443.3	3395.2
10°	3287.7	3232.6	3085.1	2921.5	2879.3
11°	2828.5	2776.7	2623.3	2451.5	2406.6
12°	2440.1	2366.7	2190.6	2041.5	1997.7
13°	2053.3	2003.1	1836.2	1688.7	1603.9
14°	1724.4	1682.8	1531.5	1401.8	1312.2
15°	1434.3	1400.2	1273.8	1147.4	1067.5
16°	1176.6	1155.5	1055.6	933.5	868.1
17°	954.6	935.1	871.4	759.0	703.9
18°	770.9	768.2	715.2	618.0	568.8
19°	634.2	633.1	584.5	502.9	462.4
20°	506.2	513.2	475.9	404.6	377.1
21°	412.7	416.5	386.8	332.8	307.9
22°	336.0	338.7	319.3	275.0	261.5
23°	275.5	277.1	260.9	228.0	216.1
24°	226.9	228.0	213.4	190.2	179.9
25°	187.5	188.5	175.0	158.8	150.7
26°	155.6	156.7	144.8	133.4	125.3
27°	129.1	131.3	119.4	112.4	103.7
28°	110.2	110.7	99.9	95.6	87.5
29°	90.2	93.5	84.3	80.5	74.5
30°	77.3	78.9	71.8	69.1	63.7
32.5°	51.3	52.4	49.2	47.0	42.7
35°	34.6	35.1	34.6	31.3	28.6
37.5°	23.8	23.8	24.3	20.5	19.4
40°	16.2	16.2	16.7	14.0	13.5
42.5°	11.9	11.9	11.3	9.7	9.7
45°	8.6	8.6	8.1	7.6	7.6
47.5°	7.0	6.5	5.9	5.9	5.9
50°	5.4	5.4	4.9	4.3	4.9
52.5°	4.3	4.3	3.8	3.8	3.8
55°	3.8	3.2	2.7	2.7	3.2
57.5°	2.7	2.7	2.2	2.2	2.7
60°	2.7	2.2	1.6	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
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°	2.2	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)