

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: P282302

Luminaire Tested: **LDA2B158040D010 EU2B15NFL258040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282302
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: LDA2B158040D010 EU2B15NFL258040 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: 1389.5 lumens
Efficiency: N/A
Efficacy: 98.5 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

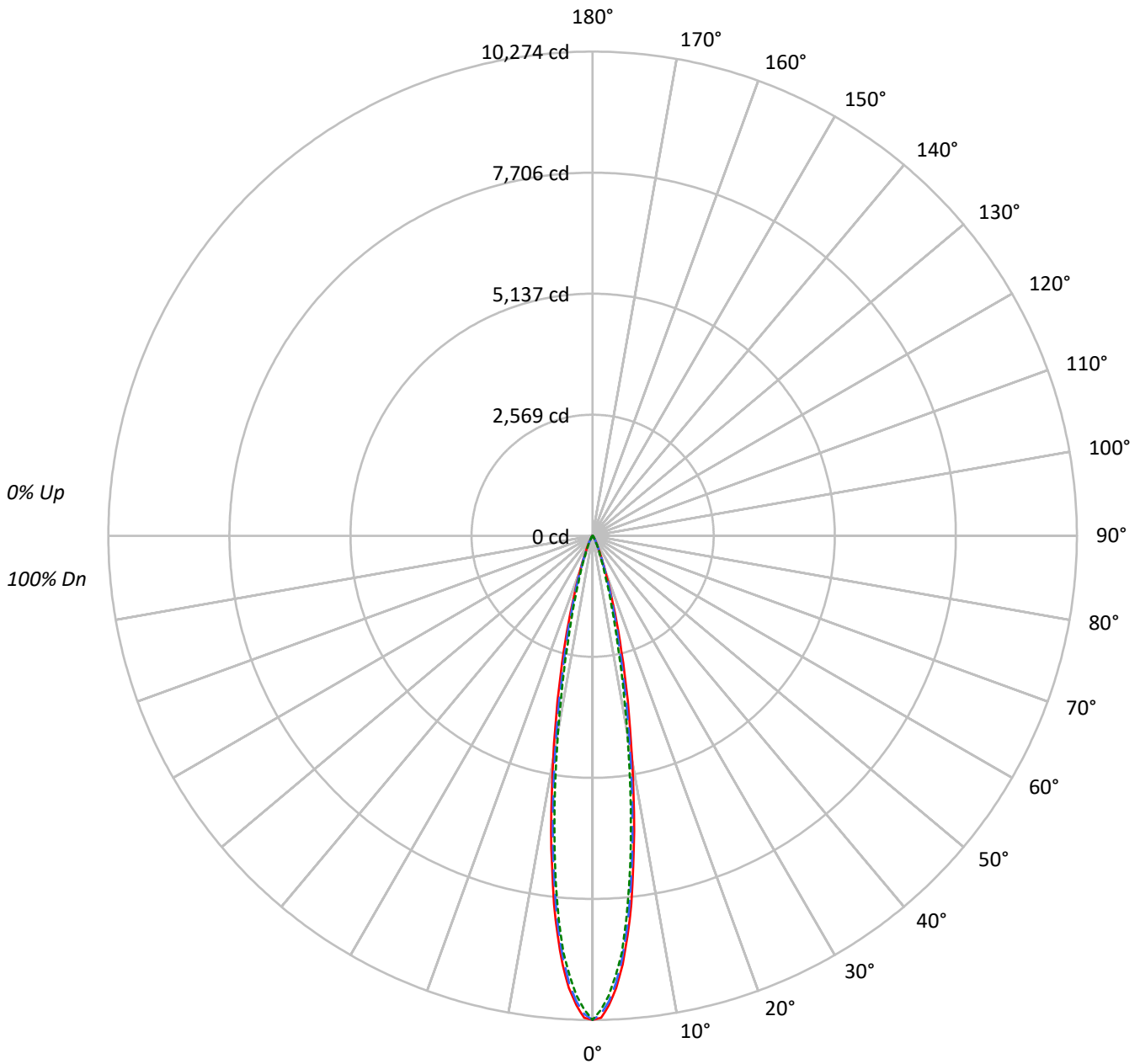
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5068700	5068700	5068700
5°	4217666	4140359	4056810
10°	2415841	2267002	2115758
15°	1074498	954315	799706
20°	389778	366520	290391
25°	149700	139738	120359
30°	64545	60045	53266
35°	30536	30536	25296
40°	15328	15843	12752
45°	8861	8303	7745
50°	6064	5449	5449
55°	4731	3441	4129
60°	3947	2368	3158
65°	2802	1868	2802
70°	2308	1154	2308
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.2	48.1
10°-20°	540.7	38.9
20°-30°	130.4	9.4
30°-40°	33.2	2.4
40°-50°	9.9	0.7
50°-60°	4.2	0.3
60°-70°	2.1	0.1
70°-80°	0.7	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°	1339.3	96.4
0°-40°	1372.6	98.8
0°-60°	1386.7	99.8
0°-90°	1389.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1389.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10274	10274	10274	10274	10274	
5°	8516	8438	8360	8287	8192	689
15°	2104	2054	1868	1683	1566	600
25°	275	276	257	233	221	142
35°	51	52	51	46	42	35
45°	13	13	12	11	11	11
55°	6	5	4	4	5	5
65°	2	2	2	2	2	3
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°	10273.8	10273.8	10273.8	10273.8	10273.8
1°	10227.8	10156.5	10147.8	10192.2	10061.4
2°	9966.4	9915.6	9886.3	9912.5	9764.3
3°	9607.4	9558.3	9505.2	9506.0	9340.4
4°	9118.5	9079.7	8990.2	8963.2	8867.3
5°	8516.3	8437.9	8360.2	8287.3	8191.5
6°	7850.7	7749.3	7638.4	7529.8	7431.6
7°	7067.9	7000.5	6853.9	6705.8	6622.6
8°	6331.8	6223.2	6052.1	5866.7	5796.1
9°	5540.2	5462.6	5266.0	5050.5	4980.0
10°	4822.3	4741.5	4525.2	4285.1	4223.3
11°	4148.8	4072.7	3847.7	3595.7	3530.0
12°	3579.1	3471.3	3213.0	2994.3	2930.2
13°	3011.8	2938.1	2693.2	2476.9	2352.5
14°	2529.2	2468.2	2246.4	2056.2	1924.7
15°	2103.7	2053.8	1868.4	1683.0	1565.7
16°	1725.8	1694.9	1548.3	1369.2	1273.3
17°	1400.1	1371.6	1278.1	1113.3	1032.5
18°	1130.7	1126.7	1049.1	906.5	834.4
19°	930.2	928.7	857.3	737.7	678.3
20°	742.4	752.7	698.1	593.5	553.1
21°	605.4	610.9	567.3	488.1	451.6
22°	492.9	496.8	468.3	403.3	383.5
23°	404.1	406.5	382.7	334.4	316.9
24°	332.8	334.4	313.0	278.9	263.9
25°	275.0	276.5	256.7	233.0	221.1
26°	228.2	229.8	212.4	195.7	183.8
27°	189.4	192.5	175.1	164.8	152.1
28°	161.6	162.4	146.6	140.2	128.4
29°	132.3	137.1	123.6	118.1	109.3
30°	113.3	115.7	105.4	101.4	93.5
32.5°	75.3	76.9	72.1	68.9	62.6
35°	50.7	51.5	50.7	46.0	42.0
37.5°	34.9	34.9	35.7	30.1	28.5
40°	23.8	23.8	24.6	20.6	19.8
42.5°	17.4	17.4	16.6	14.3	14.3
45°	12.7	12.7	11.9	11.1	11.1
47.5°	10.3	9.5	8.7	8.7	8.7
50°	7.9	7.9	7.1	6.3	7.1
52.5°	6.3	6.3	5.5	5.5	5.5
55°	5.5	4.8	4.0	4.0	4.8
57.5°	4.0	4.0	3.2	3.2	4.0
60°	4.0	3.2	2.4	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.4	1.6	1.6	1.6	1.6
70°	1.6	1.6	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
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°	3.2	2.4	2.4	2.4	2.4
65°	2.4	2.4	1.6	1.6	2.4



(END OF REPORT)