

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: P282714

Luminaire Tested: **LDA2B158040D010 EU2B15NFL258040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282714
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1263.2 lumens
Efficiency: N/A
Efficacy: 89.6 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

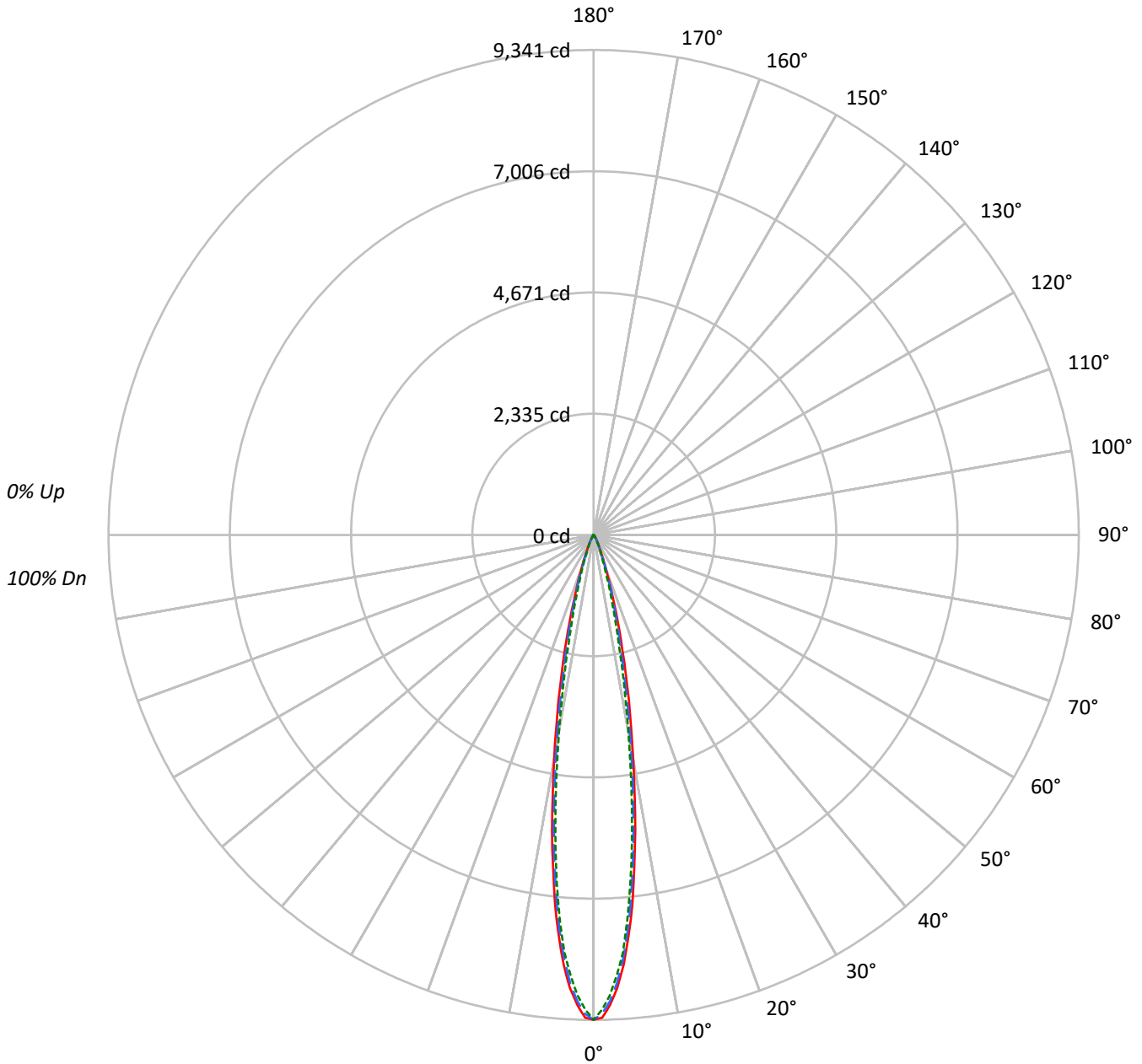
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4608443	4608443	4608443
5°	3834692	3764417	3688397
10°	2196465	2061152	1923635
15°	976942	867638	727075
20°	354392	333233	263982
25°	136091	127055	109417
30°	58678	54576	48423
35°	27765	27765	23007
40°	13911	14362	11593
45°	8024	7535	7047
50°	5526	4989	4989
55°	4301	3097	3699
60°	3552	2171	2861
65°	2568	1634	2568
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.5	48.1
10°-20°	491.6	38.9
20°-30°	118.6	9.4
30°-40°	30.2	2.4
40°-50°	9.0	0.7
50°-60°	3.8	0.3
60°-70°	1.9	0.1
70°-80°	0.6	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°	1217.7	96.4
0°-40°	1247.9	98.8
0°-60°	1260.8	99.8
0°-90°	1263.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1263.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9341	9341	9341	9341	9341	
5°	7743	7672	7601	7535	7448	626
15°	1913	1867	1699	1530	1424	545
25°	250	251	233	212	201	129
35°	46	47	46	42	38	32
45°	12	12	11	10	10	10
55°	5	4	4	4	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°	9340.9	9340.9	9340.9	9340.9	9340.9
1°	9299.1	9234.2	9226.3	9266.7	9147.8
2°	9061.3	9015.2	8988.6	9012.4	8877.6
3°	8735.0	8690.3	8642.1	8642.8	8492.2
4°	8290.5	8255.2	8173.8	8149.3	8062.1
5°	7743.0	7671.7	7601.1	7534.8	7447.6
6°	7137.8	7045.6	6944.8	6846.1	6756.7
7°	6426.1	6364.8	6231.6	6096.8	6021.2
8°	5756.8	5658.1	5502.5	5333.9	5269.8
9°	5037.1	4966.5	4787.9	4591.9	4527.8
10°	4384.4	4310.9	4114.3	3896.0	3839.8
11°	3772.1	3702.9	3498.3	3269.2	3209.4
12°	3254.1	3156.1	2921.3	2722.4	2664.1
13°	2738.3	2671.3	2448.7	2252.0	2138.9
14°	2299.6	2244.1	2042.4	1869.5	1749.9
15°	1912.7	1867.3	1698.7	1530.2	1423.5
16°	1569.1	1541.0	1407.7	1244.9	1157.7
17°	1273.0	1247.0	1162.0	1012.2	938.7
18°	1028.0	1024.4	953.8	824.2	758.6
19°	845.8	844.3	779.5	670.7	616.7
20°	675.0	684.4	634.7	539.6	502.8
21°	550.4	555.4	515.8	443.8	410.6
22°	448.1	451.7	425.8	366.7	348.7
23°	367.4	369.6	348.0	304.0	288.2
24°	302.6	304.0	284.6	253.6	239.9
25°	250.0	251.4	233.4	211.8	201.0
26°	207.5	208.9	193.1	177.9	167.1
27°	172.2	175.1	159.2	149.8	138.3
28°	147.0	147.7	133.3	127.5	116.7
29°	120.3	124.6	112.4	107.3	99.4
30°	103.0	105.2	95.8	92.2	85.0
32.5°	68.4	69.9	65.6	62.7	56.9
35°	46.1	46.8	46.1	41.8	38.2
37.5°	31.7	31.7	32.4	27.4	25.9
40°	21.6	21.6	22.3	18.7	18.0
42.5°	15.8	15.8	15.1	13.0	13.0
45°	11.5	11.5	10.8	10.1	10.1
47.5°	9.4	8.6	7.9	7.9	7.9
50°	7.2	7.2	6.5	5.8	6.5
52.5°	5.8	5.8	5.0	5.0	5.0
55°	5.0	4.3	3.6	3.6	4.3
57.5°	3.6	3.6	2.9	2.9	3.6
60°	3.6	2.9	2.2	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.2	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.9	2.2	2.2	2.2	2.2
65°	2.2	2.2	1.4	1.4	2.2



(END OF REPORT)