

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: P282713

Luminaire Tested: **LDA2B158040D010 EU2B15NFL258040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282713
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1281.3 lumens
Efficiency: N/A
Efficacy: 90.9 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

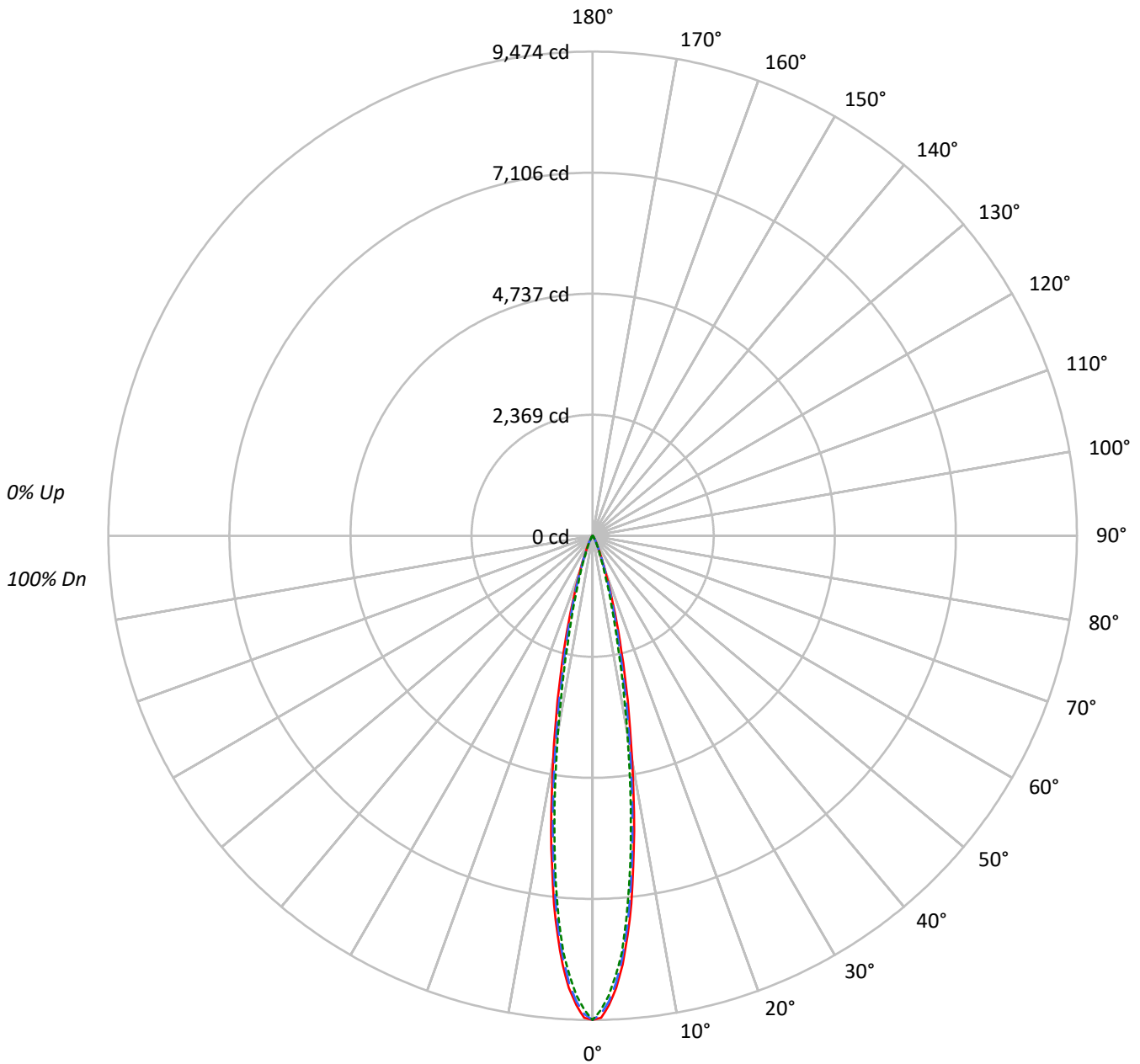
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4674159	4674159	4674159
5°	3889417	3818102	3741041
10°	2227826	2090559	1951088
15°	990885	880049	737444
20°	359484	337958	267763
25°	137996	128851	110996
30°	59532	55373	49107
35°	28187	28187	23308
40°	14104	14620	11786
45°	8163	7675	7117
50°	5603	5066	5066
55°	4387	3183	3785
60°	3651	2171	2861
65°	2568	1751	2568
70°	2164	1010	2164
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.2	48.1
10°-20°	498.7	38.9
20°-30°	120.2	9.4
30°-40°	30.7	2.4
40°-50°	9.1	0.7
50°-60°	3.9	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°	1235.1	96.4
0°-40°	1265.8	98.8
0°-60°	1278.8	99.8
0°-90°	1281.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1281.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9474	9474	9474	9474	9474	
5°	7854	7781	7710	7642	7554	635
15°	1940	1894	1723	1552	1444	553
25°	254	255	237	215	204	131
35°	47	48	47	42	39	32
45°	12	12	11	10	10	10
55°	5	4	4	4	4	4
65°	2	2	2	2	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°	9474.1	9474.1	9474.1	9474.1	9474.1
1°	9431.8	9366.0	9358.0	9398.9	9278.3
2°	9190.6	9143.9	9116.8	9140.9	9004.3
3°	8859.6	8814.3	8765.4	8766.1	8613.4
4°	8408.8	8373.0	8290.4	8265.6	8177.2
5°	7853.5	7781.1	7709.5	7642.3	7553.9
6°	7239.7	7146.2	7043.9	6943.8	6853.1
7°	6517.8	6455.7	6320.5	6183.8	6107.1
8°	5839.0	5738.8	5581.0	5410.0	5345.0
9°	5109.0	5037.4	4856.2	4657.4	4592.4
10°	4447.0	4372.5	4173.0	3951.6	3894.6
11°	3825.9	3755.8	3548.2	3315.9	3255.2
12°	3300.5	3201.2	2963.0	2761.3	2702.1
13°	2777.4	2709.4	2483.6	2284.1	2169.4
14°	2332.4	2276.1	2071.5	1896.1	1774.8
15°	1940.0	1894.0	1723.0	1552.0	1443.8
16°	1591.4	1562.9	1427.8	1262.6	1174.2
17°	1291.1	1264.8	1178.6	1026.6	952.1
18°	1042.7	1039.0	967.4	835.9	769.4
19°	857.8	856.4	790.6	680.3	625.5
20°	684.7	694.2	643.7	547.3	510.0
21°	558.2	563.4	523.2	450.1	416.5
22°	454.5	458.1	431.8	371.9	353.7
23°	372.7	374.8	352.9	308.4	292.3
24°	306.9	308.4	288.6	257.2	243.3
25°	253.5	255.0	236.7	214.8	203.9
26°	210.4	211.9	195.8	180.5	169.5
27°	174.6	177.6	161.5	152.0	140.3
28°	149.1	149.8	135.2	129.3	118.4
29°	122.0	126.4	114.0	108.9	100.8
30°	104.5	106.7	97.2	93.5	86.2
32.5°	69.4	70.9	66.5	63.6	57.7
35°	46.8	47.5	46.8	42.4	38.7
37.5°	32.2	32.2	32.9	27.8	26.3
40°	21.9	21.9	22.7	19.0	18.3
42.5°	16.1	16.1	15.3	13.2	13.2
45°	11.7	11.7	11.0	10.2	10.2
47.5°	9.5	8.8	8.0	8.0	8.0
50°	7.3	7.3	6.6	5.8	6.6
52.5°	5.8	5.8	5.1	5.1	5.1
55°	5.1	4.4	3.7	3.7	4.4
57.5°	3.7	3.7	2.9	2.9	3.7
60°	3.7	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	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.7	0.7	1.5
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	1.5	1.5	2.2



(END OF REPORT)