

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: P282712

Luminaire Tested: **LDA2B158035D010 EU2B15NFL258035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282712
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: LDA2B158035D010 EU2B15NFL258035 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.9 lumens
Efficiency: N/A
Efficacy: 87.5 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

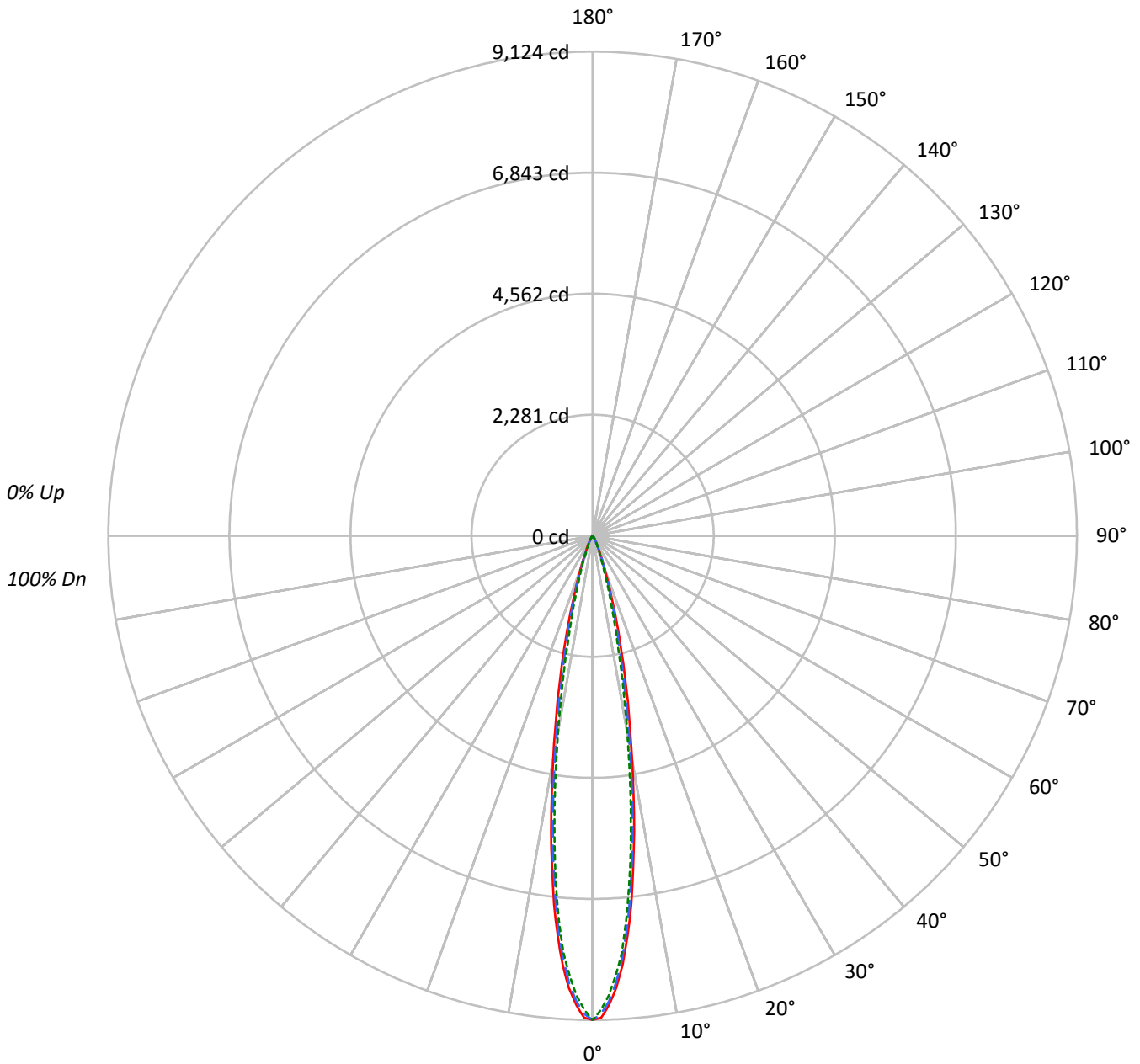
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4501482	4501482	4501482
5°	3745697	3677056	3602818
10°	2145516	2013309	1878998
15°	954264	847514	710220
20°	346201	325515	257892
25°	132934	124115	106859
30°	57310	53323	47284
35°	27103	27103	22465
40°	13589	14040	11335
45°	7884	7396	6907
50°	5373	4835	4835
55°	4215	3011	3613
60°	3454	2072	2763
65°	2452	1634	2452
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°	593.4	48.1
10°-20°	480.2	38.9
20°-30°	115.8	9.4
30°-40°	29.5	2.4
40°-50°	8.8	0.7
50°-60°	3.7	0.3
60°-70°	1.8	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°	1189.5	96.4
0°-40°	1219.0	98.8
0°-60°	1231.5	99.8
0°-90°	1233.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9124	9124	9124	9124	9124	
5°	7563	7494	7425	7360	7275	612
15°	1868	1824	1659	1495	1390	533
25°	244	246	228	207	196	126
35°	45	46	45	41	37	31
45°	11	11	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°	9124.1	9124.1	9124.1	9124.1	9124.1
1°	9083.3	9020.0	9012.2	9051.6	8935.5
2°	8851.1	8806.1	8780.0	8803.2	8671.7
3°	8532.3	8488.7	8441.5	8442.2	8295.2
4°	8098.1	8063.7	7984.1	7960.2	7875.1
5°	7563.3	7493.7	7424.7	7360.0	7274.8
6°	6972.2	6882.2	6783.6	6687.2	6600.0
7°	6277.0	6217.2	6087.0	5955.4	5881.5
8°	5623.2	5526.8	5374.8	5210.2	5147.5
9°	4920.2	4851.3	4676.8	4485.4	4422.7
10°	4282.7	4210.9	4018.8	3805.6	3750.7
11°	3684.6	3617.0	3417.1	3193.4	3135.0
12°	3178.6	3082.9	2853.5	2659.3	2602.3
13°	2674.8	2609.3	2391.9	2199.8	2089.3
14°	2246.2	2192.0	1995.0	1826.1	1709.3
15°	1868.3	1824.0	1659.3	1494.7	1390.5
16°	1532.7	1505.2	1375.0	1216.0	1130.8
17°	1243.4	1218.1	1135.1	988.7	916.9
18°	1004.2	1000.7	931.7	805.0	741.0
19°	826.1	824.7	761.4	655.1	602.4
20°	659.4	668.5	620.0	527.1	491.2
21°	537.6	542.5	503.8	433.5	401.1
22°	437.7	441.2	415.9	358.2	340.6
23°	358.9	361.0	339.9	297.0	281.5
24°	295.6	297.0	278.0	247.7	234.3
25°	244.2	245.6	228.0	206.9	196.3
26°	202.7	204.1	188.6	173.8	163.3
27°	168.2	171.0	155.5	146.4	135.1
28°	143.6	144.3	130.2	124.6	114.0
29°	117.5	121.7	109.8	104.9	97.1
30°	100.6	102.7	93.6	90.1	83.0
32.5°	66.9	68.3	64.0	61.2	55.6
35°	45.0	45.7	45.0	40.8	37.3
37.5°	31.0	31.0	31.7	26.7	25.3
40°	21.1	21.1	21.8	18.3	17.6
42.5°	15.5	15.5	14.8	12.7	12.7
45°	11.3	11.3	10.6	9.9	9.9
47.5°	9.1	8.4	7.7	7.7	7.7
50°	7.0	7.0	6.3	5.6	6.3
52.5°	5.6	5.6	4.9	4.9	4.9
55°	4.9	4.2	3.5	3.5	4.2
57.5°	3.5	3.5	2.8	2.8	3.5
60°	3.5	2.8	2.1	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	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°	2.8	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)