

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: P282715

Luminaire Tested: **LDA2B158040D010 EU2B15NFL258040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282715
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 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: 1284.4 lumens
Efficiency: N/A
Efficacy: 91.1 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

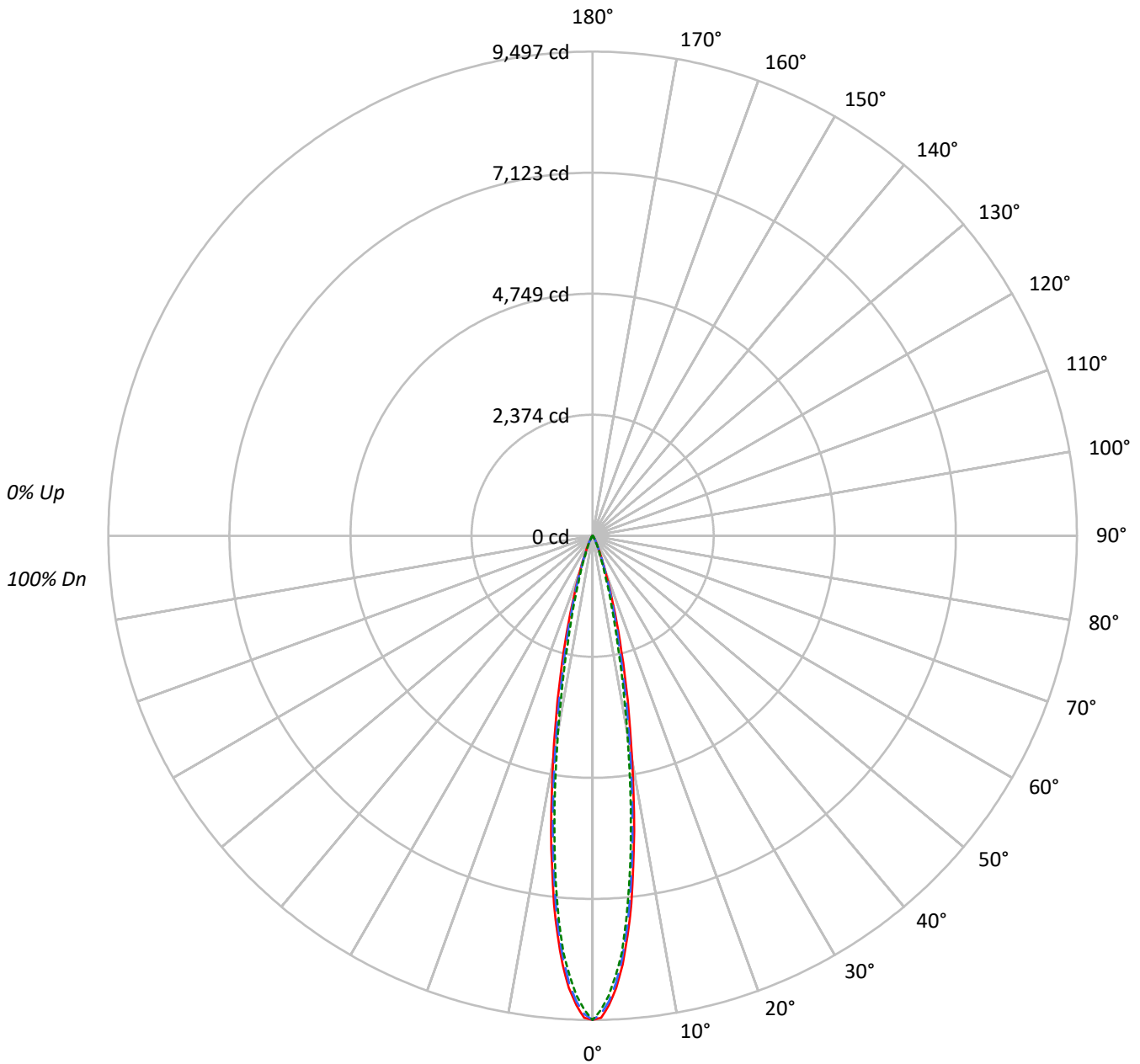
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4685605	4685605	4685605
5°	3898926	3827462	3750203
10°	2233286	2095669	1955847
15°	993286	882195	739282
20°	360324	338798	268445
25°	138377	129178	111268
30°	59646	55487	49221
35°	28247	28247	23369
40°	14169	14620	11786
45°	8163	7675	7187
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°	617.7	48.1
10°-20°	499.9	38.9
20°-30°	120.5	9.4
30°-40°	30.7	2.4
40°-50°	9.2	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°	1238.1	96.4
0°-40°	1268.8	98.8
0°-60°	1281.9	99.8
0°-90°	1284.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9497	9497	9497	9497	9497	
5°	7873	7800	7728	7661	7572	637
15°	1945	1899	1727	1556	1447	555
25°	254	256	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°	9497.3	9497.3	9497.3	9497.3	9497.3
1°	9454.8	9388.9	9380.9	9421.9	9301.0
2°	9213.1	9166.2	9139.1	9163.3	9026.3
3°	8881.3	8835.9	8786.8	8787.5	8634.5
4°	8429.4	8393.5	8310.7	8285.8	8197.2
5°	7872.7	7800.2	7728.4	7661.0	7572.4
6°	7257.4	7163.6	7061.1	6960.7	6869.9
7°	6533.7	6471.4	6335.9	6199.0	6122.1
8°	5853.2	5752.9	5594.7	5423.3	5358.1
9°	5121.5	5049.7	4868.1	4668.8	4603.6
10°	4457.9	4383.2	4183.2	3961.2	3904.1
11°	3835.3	3764.9	3556.9	3324.0	3263.2
12°	3308.6	3209.0	2970.2	2768.0	2708.7
13°	2784.2	2716.0	2489.7	2289.7	2174.7
14°	2338.1	2281.7	2076.6	1900.8	1779.2
15°	1944.7	1898.6	1727.2	1555.8	1447.4
16°	1595.3	1566.8	1431.3	1265.7	1177.1
17°	1294.3	1267.9	1181.5	1029.1	954.4
18°	1045.2	1041.6	969.8	838.0	771.3
19°	859.9	858.5	792.5	681.9	627.0
20°	686.3	695.9	645.3	548.6	511.3
21°	559.6	564.7	524.5	451.2	417.5
22°	455.6	459.3	432.9	372.8	354.5
23°	373.6	375.8	353.8	309.1	293.0
24°	307.6	309.1	289.3	257.8	243.9
25°	254.2	255.6	237.3	215.3	204.4
26°	211.0	212.4	196.3	180.9	169.9
27°	175.1	178.0	161.9	152.4	140.6
28°	149.4	150.2	135.5	129.6	118.7
29°	122.3	126.7	114.3	109.1	101.1
30°	104.7	106.9	97.4	93.8	86.4
32.5°	69.6	71.1	66.7	63.7	57.9
35°	46.9	47.6	46.9	42.5	38.8
37.5°	32.2	32.2	33.0	27.8	26.4
40°	22.0	22.0	22.7	19.0	18.3
42.5°	16.1	16.1	15.4	13.2	13.2
45°	11.7	11.7	11.0	10.3	10.3
47.5°	9.5	8.8	8.1	8.1	8.1
50°	7.3	7.3	6.6	5.9	6.6
52.5°	5.9	5.9	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)