

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: P281708

Luminaire Tested: **LDA2B158050D010 EU2B15SP158050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158050D010 EU2B15SP158050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1505.2 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

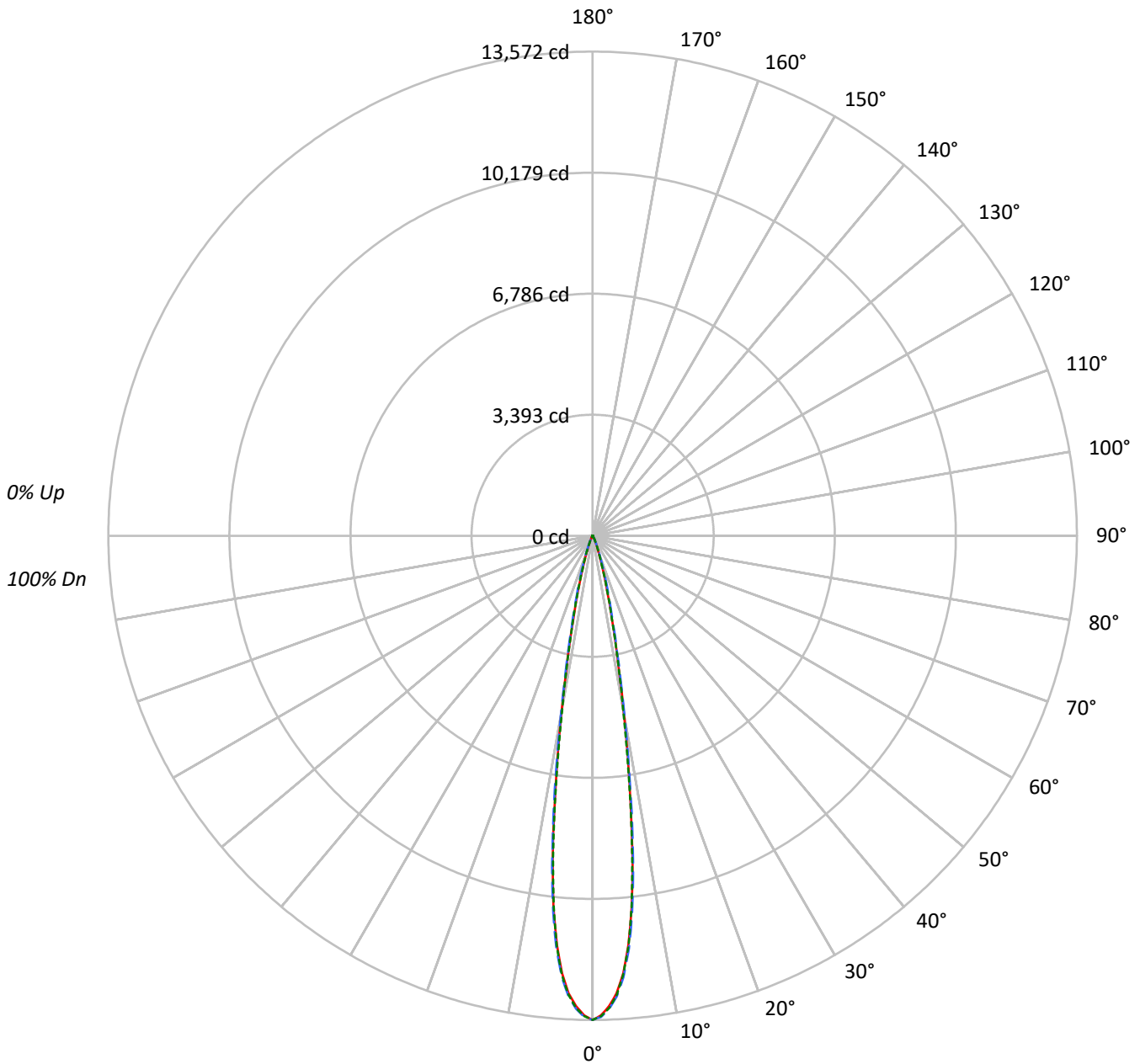
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6695660	6695660	6695660
5°	5701573	5760953	5712369
10°	2517137	2574699	2458323
15°	763799	876014	775802
20°	228543	304724	255372
25°	89004	87643	93576
30°	39650	35833	37770
35°	8071	7047	7047
40°	0	515	2190
45°	7047	5861	10536
50°	0	1919	6447
55°	0	0	2925
60°	0	789	3355
65°	0	0	1985
70°	0	4904	9665
75°	0	0	0
80°	0	0	0
85°	0	4529	19246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.8	58.4
10°-20°	502.5	33.4
20°-30°	95.4	6.3
30°-40°	17.3	1.2
40°-50°	4.5	0.3
50°-60°	3.4	0.2
60°-70°	0.5	0.0
70°-80°	0.8	0.1
80°-90°	1.1	0.1
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°	1477.6	98.2
0°-40°	1495.0	99.3
0°-60°	1502.9	99.8
0°-90°	1505.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13572	13572	13572	13572	13572	
5°	11513	11588	11632	11612	11534	874
15°	1495	1626	1715	1611	1519	476
25°	164	176	161	184	172	86
35°	13	17	12	14	12	18
45°	10	16	8	9	15	5
55°	0	1	0	1	3	1
65°	0	0	0	0	2	0
75°	0	0	0	0	0	0
85°	0	1	1	1	3	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13571.5	13571.5	13571.5	13571.5	13571.5
1°	13443.2	13457.5	13487.7	13518.7	13470.1
2°	13191.6	13226.0	13268.8	13297.3	13244.5
3°	12839.4	12887.2	12932.5	12938.3	12888.9
4°	12295.1	12353.8	12401.6	12395.7	12333.7
5°	11512.6	11588.1	11632.5	11612.4	11534.4
6°	10478.5	10551.5	10608.5	10550.6	10445.8
7°	9190.3	9274.1	9334.5	9235.6	9107.2
8°	7697.4	7814.8	7875.2	7736.8	7605.2
9°	6283.4	6364.8	6426.0	6275.0	6140.8
10°	5024.5	5173.8	5139.4	5022.9	4907.1
11°	3951.9	4086.9	4092.8	4013.9	3900.7
12°	3093.9	3236.5	3272.5	3212.2	3111.5
13°	2444.8	2551.3	2610.8	2548.8	2453.1
14°	1945.7	2040.5	2116.8	2036.3	1940.7
15°	1495.4	1626.2	1715.1	1611.1	1518.9
16°	1189.3	1297.4	1403.1	1284.9	1211.1
17°	913.3	1009.8	1118.8	1011.5	951.1
18°	722.9	799.3	919.2	808.5	755.7
19°	566.1	624.0	735.5	638.2	595.5
20°	435.3	499.0	580.4	514.1	486.4
22.5°	263.3	298.6	322.1	301.9	287.7
25°	163.5	176.1	161.0	183.7	171.9
26°	142.6	151.8	148.4	163.5	149.3
27°	114.1	125.8	116.6	128.3	124.1
28°	104.0	118.3	99.8	114.1	107.4
29°	73.0	78.8	71.3	76.3	76.3
30°	69.6	71.3	62.9	68.8	66.3
32.5°	54.5	51.2	41.9	44.5	42.8
35°	13.4	16.8	11.7	14.3	11.7
37.5°	20.1	18.5	21.8	21.0	20.1
40°	0.0	0.8	0.8	0.8	3.4
42.5°	15.1	9.2	8.4	5.9	10.1
45°	10.1	15.9	8.4	9.2	15.1
47.5°	0.0	0.8	0.0	1.7	1.7
50°	0.0	1.7	2.5	3.4	8.4
52.5°	1.7	10.1	5.0	9.2	13.4
55°	0.0	0.8	0.0	0.8	3.4
57.5°	3.4	1.7	3.4	3.4	15.1
60°	0.0	1.7	0.8	0.8	3.4
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.7
67.5°	0.0	0.8	0.0	0.0	0.0



TEST NUMBER: P281708

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.8	0.0	0.0
80°	0.0	0.8	0.0	0.0	0.0
82.5°	0.0	0.8	1.7	2.5	1.7
85°	0.0	0.8	0.8	0.8	3.4
87.5°	0.0	1.7	2.5	0.0	1.7
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







70°	0.0	2.5	3.4	0.0	6.7
72.5°	0.0	4.2	0.8	0.8	0.0



(END OF REPORT)