

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: P281561

Luminaire Tested: **LDA2B159727D010 EU2B15SP159727 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159727D010 EU2B15SP159727 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1001.5 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

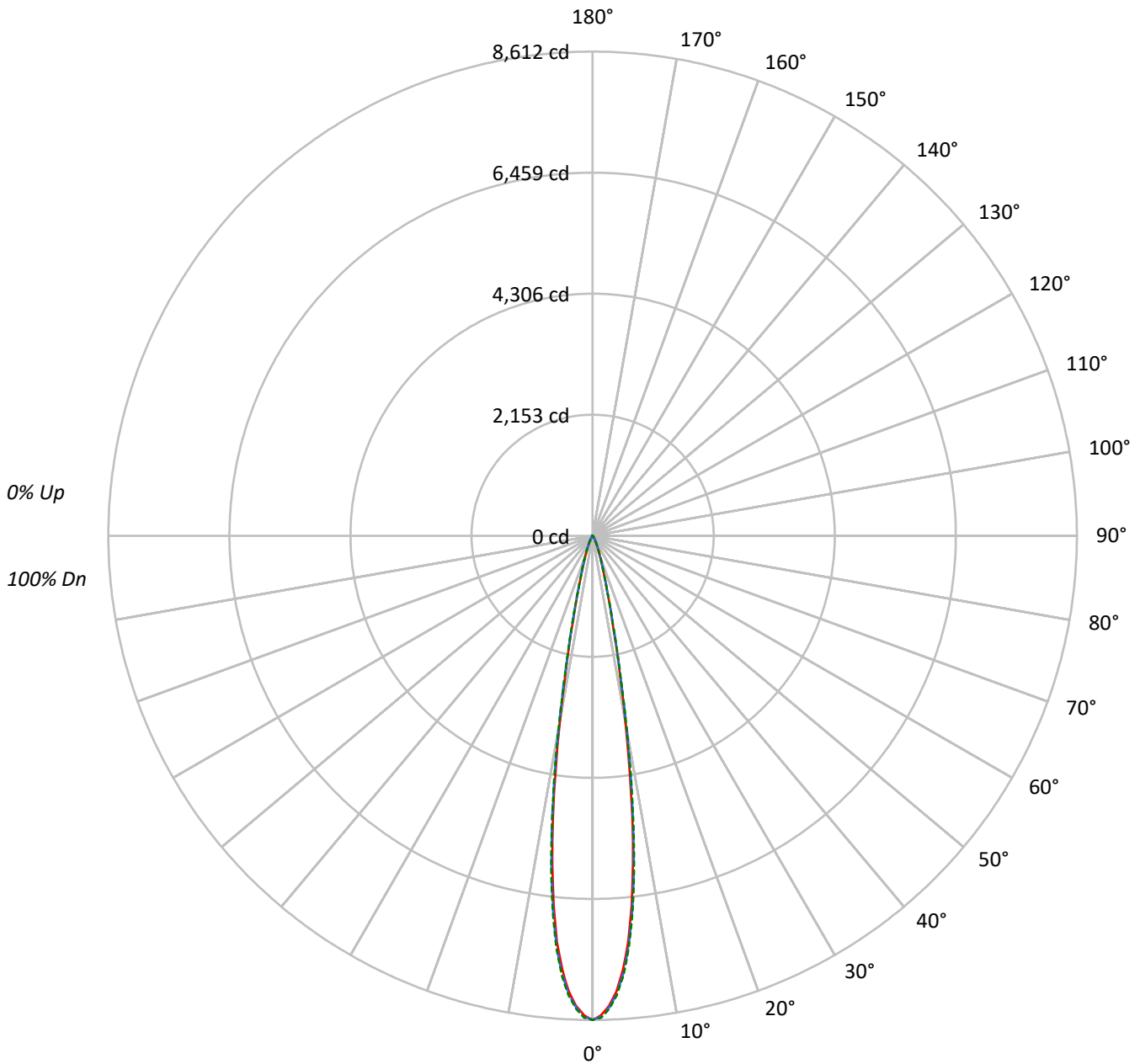
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	101	100	99	98	98	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	96	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	94	94	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92																
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	90	90	90																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	89	89	89																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	87	87	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	86	86	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	84	84	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	83	83	83																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4248733	4248733	4248733
5°	3596033	3633672	3649470
10°	1681565	1745289	1748695
15°	492531	499682	499427
20°	197777	198039	198302
25°	88187	97115	90310
30°	37485	51500	34181
35°	17165	23911	16021
40°	5603	9339	4959
45°	0	3349	0
50°	0	0	0
55°	1634	860	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2841	0	0
85°	5661	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.1	56.8
10°-20°	322.6	32.2
20°-30°	84.2	8.4
30°-40°	21.7	2.2
40°-50°	2.1	0.2
50°-60°	0.7	0.1
60°-70°	0.1	0.0
70°-80°	0.7	0.1
80°-90°	0.2	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°	975.9	97.5
0°-40°	997.6	99.6
0°-60°	1000.5	99.9
0°-90°	1001.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8612	8612	8612	8612	8612	
5°	7261	7326	7337	7291	7369	562
15°	964	977	978	967	978	317
25°	162	176	178	170	166	81
35°	28	30	40	27	27	20
45°	0	2	5	0	0	2
55°	2	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8611.8	8611.8	8611.8	8611.8	8611.8
1°	8531.1	8564.9	8554.8	8542.7	8576.5
2°	8366.6	8399.5	8396.6	8380.7	8420.3
3°	8113.2	8159.2	8159.2	8135.5	8184.8
4°	7735.6	7805.7	7812.4	7779.1	7840.5
5°	7261.1	7325.9	7337.1	7290.6	7369.0
6°	6618.5	6707.0	6732.1	6678.4	6758.7
7°	5880.0	5972.9	6011.1	5951.1	6041.0
8°	5083.5	5150.3	5196.2	5127.5	5218.9
9°	4192.3	4288.5	4330.6	4263.8	4352.8
10°	3356.6	3445.1	3483.8	3467.8	3490.6
11°	2607.0	2685.4	2711.5	2689.7	2700.4
12°	2041.2	2072.7	2089.6	2075.1	2082.4
13°	1549.9	1592.0	1599.7	1593.4	1596.8
14°	1210.4	1230.7	1239.4	1236.5	1238.0
15°	964.3	977.3	978.3	967.2	977.8
16°	776.7	786.8	791.2	779.6	793.6
17°	636.4	644.6	649.5	637.9	643.7
18°	523.7	530.0	536.8	526.6	535.3
19°	439.6	443.5	443.9	441.0	443.5
20°	376.7	374.8	377.2	371.9	377.7
22.5°	248.1	252.9	258.7	252.4	254.9
25°	162.0	175.5	178.4	170.2	165.9
26°	133.5	150.9	158.6	145.6	131.5
27°	110.7	123.3	133.5	116.1	104.9
28°	97.2	107.8	118.0	101.6	88.5
29°	81.2	91.9	109.3	90.4	82.2
30°	65.8	73.5	90.4	68.7	60.0
32.5°	37.2	43.5	58.5	40.6	33.4
35°	28.5	30.5	39.7	27.1	26.6
37.5°	24.7	22.2	30.9	22.2	17.9
40°	8.7	13.1	14.5	9.7	7.7
42.5°	3.9	3.9	6.3	1.9	1.9
45°	0.0	1.9	4.8	0.5	0.0
47.5°	0.0	0.0	1.0	0.0	0.0
50°	0.0	1.0	0.0	0.0	0.0
52.5°	1.0	0.0	0.0	0.0	0.0
55°	1.9	2.4	1.0	0.5	0.0
57.5°	2.9	2.4	1.0	1.0	1.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	1.0	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.5	0.0	0.0	0.0
77.5°	4.8	1.0	1.5	1.0	1.9
80°	1.0	0.0	0.0	0.0	0.0
82.5°	1.9	0.0	0.0	0.0	0.0
85°	1.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	0.0	0.5	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.9	1.5	0.0	0.0	1.9



(END OF REPORT)