

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: P281543

Luminaire Tested: **LDA2B159024D010 EU2B15SP159024 2LBASQC1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281543  
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: LDA2B159024D010 EU2B15SP159024 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: 1033.0 lumens  
Efficiency: N/A  
Efficacy: 73.3 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

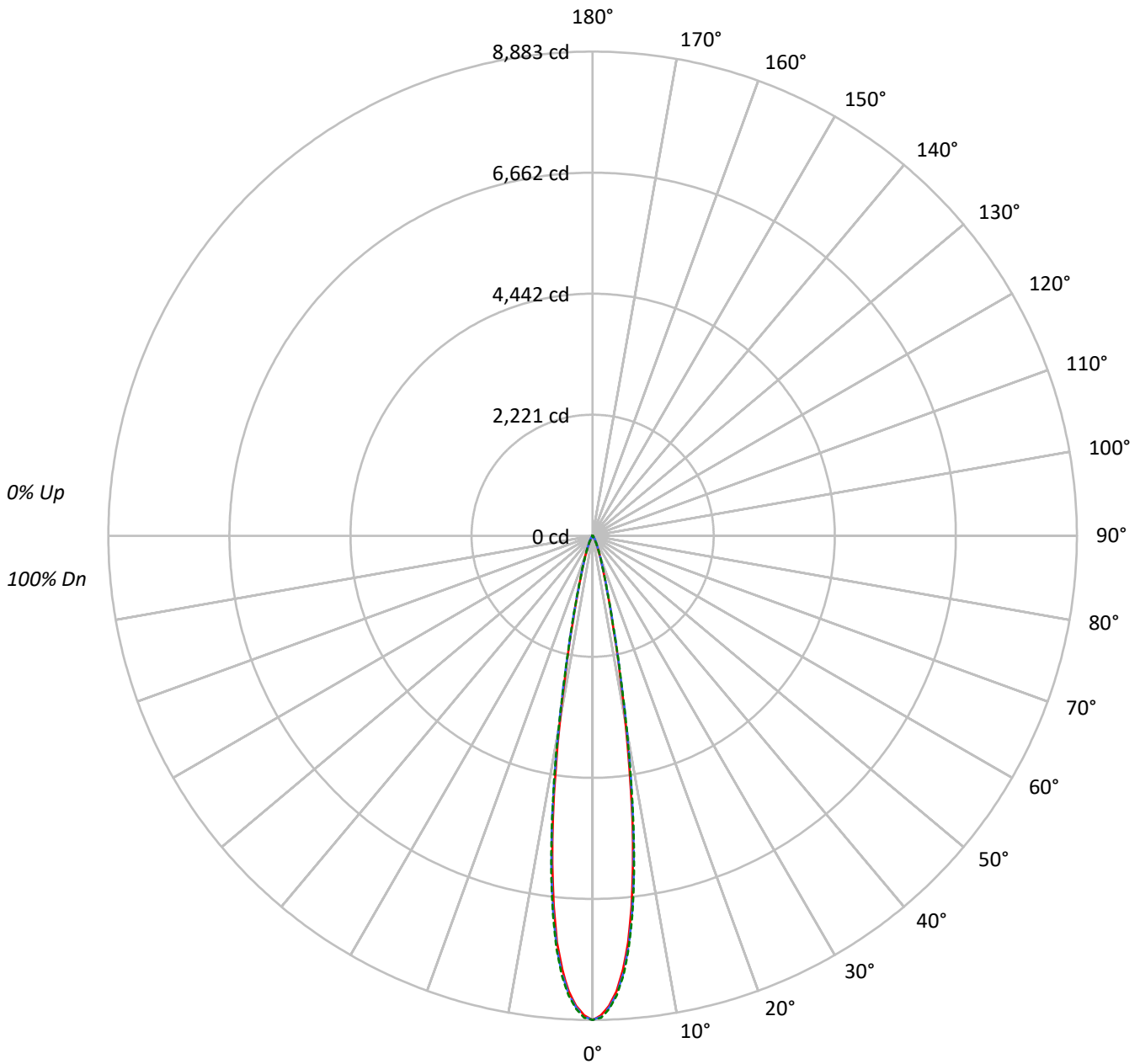
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96					98	
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94					96	
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92					94	
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90					92	
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	89	88					90	
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87					89	
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85					87	
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85	84	83					86	
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82					84	
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81					83	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4382385	4382385	4382385
5°	3709197	3747975	3764268
10°	1734468	1800195	1803702
15°	508008	515414	515158
20°	204025	204287	204550
25°	90963	100218	93141
30°	38625	53152	35264
35°	17707	24633	16503
40°	5796	9661	5152
45°	0	3489	0
50°	0	0	0
55°	1720	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°	587.0	56.8
10°-20°	332.7	32.2
20°-30°	86.9	8.4
30°-40°	22.4	2.2
40°-50°	2.2	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°	1006.6	97.5
0°-40°	1029.0	99.6
0°-60°	1032.0	99.9
0°-90°	1033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8883	8883	8883	8883	8883	
5°	7490	7556	7568	7520	7601	580
15°	995	1008	1009	998	1009	327
25°	167	181	184	176	171	83
35°	29	31	41	28	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°	8882.7	8882.7	8882.7	8882.7	8882.7
1°	8799.4	8834.3	8823.9	8811.4	8846.3
2°	8629.8	8663.7	8660.8	8644.3	8685.2
3°	8368.5	8415.8	8415.8	8391.4	8442.3
4°	7978.9	8051.2	8058.2	8023.8	8087.1
5°	7489.6	7556.4	7567.9	7520.0	7600.8
6°	6826.6	6917.9	6943.9	6888.5	6971.3
7°	6065.0	6160.7	6200.1	6138.3	6231.1
8°	5243.4	5312.3	5359.7	5288.8	5383.1
9°	4324.1	4423.4	4466.8	4398.0	4489.7
10°	3462.2	3553.5	3593.4	3576.9	3600.4
11°	2689.1	2769.9	2796.8	2774.4	2785.3
12°	2105.5	2137.9	2155.3	2140.4	2147.9
13°	1598.7	1642.1	1650.0	1643.6	1647.1
14°	1248.5	1269.5	1278.4	1275.4	1276.9
15°	994.6	1008.1	1009.1	997.6	1008.6
16°	801.1	811.6	816.0	804.1	818.5
17°	656.4	664.9	669.9	657.9	663.9
18°	540.2	546.7	553.7	543.2	552.2
19°	453.4	457.4	457.9	454.9	457.4
20°	388.6	386.6	389.1	383.6	389.6
22.5°	255.9	260.9	266.9	260.4	262.9
25°	167.1	181.1	184.1	175.6	171.1
26°	137.7	155.6	163.6	150.1	135.7
27°	114.2	127.2	137.7	119.7	108.2
28°	100.3	111.2	121.7	104.7	91.3
29°	83.8	94.8	112.7	93.3	84.8
30°	67.8	75.8	93.3	70.8	61.9
32.5°	38.4	44.9	60.4	41.9	34.4
35°	29.4	31.4	40.9	27.9	27.4
37.5°	25.4	22.9	31.9	22.9	18.5
40°	9.0	13.5	15.0	10.0	8.0
42.5°	4.0	4.0	6.5	2.0	2.0
45°	0.0	2.0	5.0	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°	2.0	2.5	1.0	0.5	0.0
57.5°	3.0	2.5	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°	5.0	1.0	1.5	1.0	2.0
80°	1.0	0.0	0.0	0.0	0.0
82.5°	2.0	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°	2.0	1.5	0.0	0.0	2.0



(END OF REPORT)