

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: P281511

Luminaire Tested: **LDA2B109040D010 EU2B10SP159040 2LBASQC1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281511  
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: LDA2B109040D010 EU2B10SP159040 2LBASQC1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 925.2 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

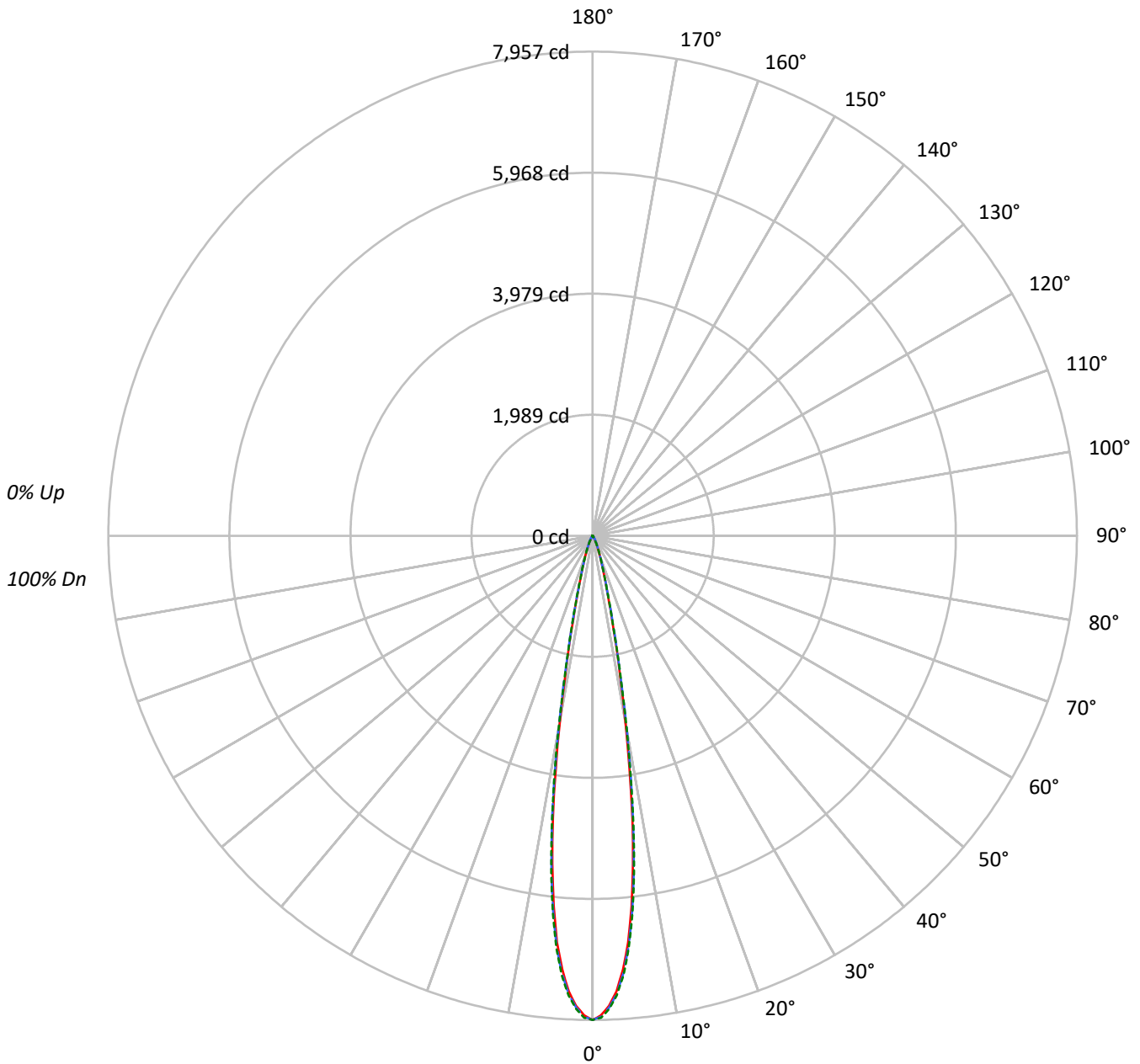
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	99	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	99	98	97																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	98	96	95																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	96	95	93																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	95	93	91																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	93	91	90																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	92	90	88																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	90	88	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	89	87	85																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	88	85	84																

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

	0°	45°	90°
0°	3925482	3925482	3925482
5°	3322459	3357176	3371786
10°	1553617	1612481	1615637
15°	455041	461681	461426
20°	182761	182971	183181
25°	81491	89766	83451
30°	34637	47626	31561
35°	15900	22044	14816
40°	5152	8630	4573
45°	0	3140	0
50°	0	0	0
55°	1548	774	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2557	0	0
85°	5095	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.8	56.8
10°-20°	298.0	32.2
20°-30°	77.8	8.4
30°-40°	20.1	2.2
40°-50°	2.0	0.2
50°-60°	0.6	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°	901.7	97.5
0°-40°	921.7	99.6
0°-60°	924.4	99.9
0°-90°	925.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7957	7957	7957	7957	7957	
5°	6709	6768	6779	6736	6808	519
15°	891	903	904	894	903	292
25°	150	162	165	157	153	74
35°	26	28	37	25	25	18
45°	0	2	4	0	0	1
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°	7956.6	7956.6	7956.6	7956.6	7956.6
1°	7881.9	7913.2	7903.8	7892.7	7923.9
2°	7730.0	7760.4	7757.7	7743.0	7779.6
3°	7495.9	7538.4	7538.4	7516.5	7562.0
4°	7147.0	7211.8	7218.0	7187.2	7243.9
5°	6708.7	6768.5	6778.8	6735.9	6808.3
6°	6114.9	6196.6	6219.9	6170.3	6244.4
7°	5432.6	5518.4	5553.7	5498.3	5581.4
8°	4696.7	4758.4	4800.8	4737.4	4821.8
9°	3873.3	3962.2	4001.1	3939.4	4021.6
10°	3101.2	3183.0	3218.7	3204.0	3225.0
11°	2408.7	2481.1	2505.2	2485.1	2494.9
12°	1885.9	1915.0	1930.6	1917.2	1923.9
13°	1432.0	1470.9	1478.0	1472.2	1475.3
14°	1118.3	1137.1	1145.1	1142.5	1143.8
15°	890.9	903.0	903.9	893.6	903.4
16°	717.6	726.9	731.0	720.2	733.2
17°	588.0	595.6	600.0	589.3	594.7
18°	483.9	489.7	495.9	486.6	494.6
19°	406.1	409.7	410.2	407.5	409.7
20°	348.1	346.3	348.5	343.6	348.9
22.5°	229.2	233.7	239.0	233.2	235.5
25°	149.7	162.2	164.9	157.3	153.3
26°	123.3	139.4	146.5	134.5	121.5
27°	102.3	113.9	123.3	107.2	97.0
28°	89.8	99.6	109.0	93.8	81.8
29°	75.1	84.9	101.0	83.6	76.0
30°	60.8	67.9	83.6	63.4	55.4
32.5°	34.4	40.2	54.1	37.5	30.8
35°	26.4	28.1	36.6	25.0	24.6
37.5°	22.8	20.6	28.6	20.6	16.5
40°	8.0	12.1	13.4	8.9	7.1
42.5°	3.6	3.6	5.8	1.8	1.8
45°	0.0	1.8	4.5	0.4	0.0
47.5°	0.0	0.0	0.9	0.0	0.0
50°	0.0	0.9	0.0	0.0	0.0
52.5°	0.9	0.0	0.0	0.0	0.0
55°	1.8	2.2	0.9	0.4	0.0
57.5°	2.7	2.2	0.9	0.9	0.9
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°	0.9	0.4	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.4	0.0	0.0	0.0
77.5°	4.5	0.9	1.3	0.9	1.8
80°	0.9	0.0	0.0	0.0	0.0
82.5°	1.8	0.0	0.0	0.0	0.0
85°	0.9	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.0	0.4	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°	1.8	1.3	0.0	0.0	1.8



(END OF REPORT)