

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: P281515

Luminaire Tested: **LDA2B109050D010 EU2B10SP159050 2LBASQC1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281515  
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: LDA2B109050D010 EU2B10SP159050 2LBASQC1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 950.6 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

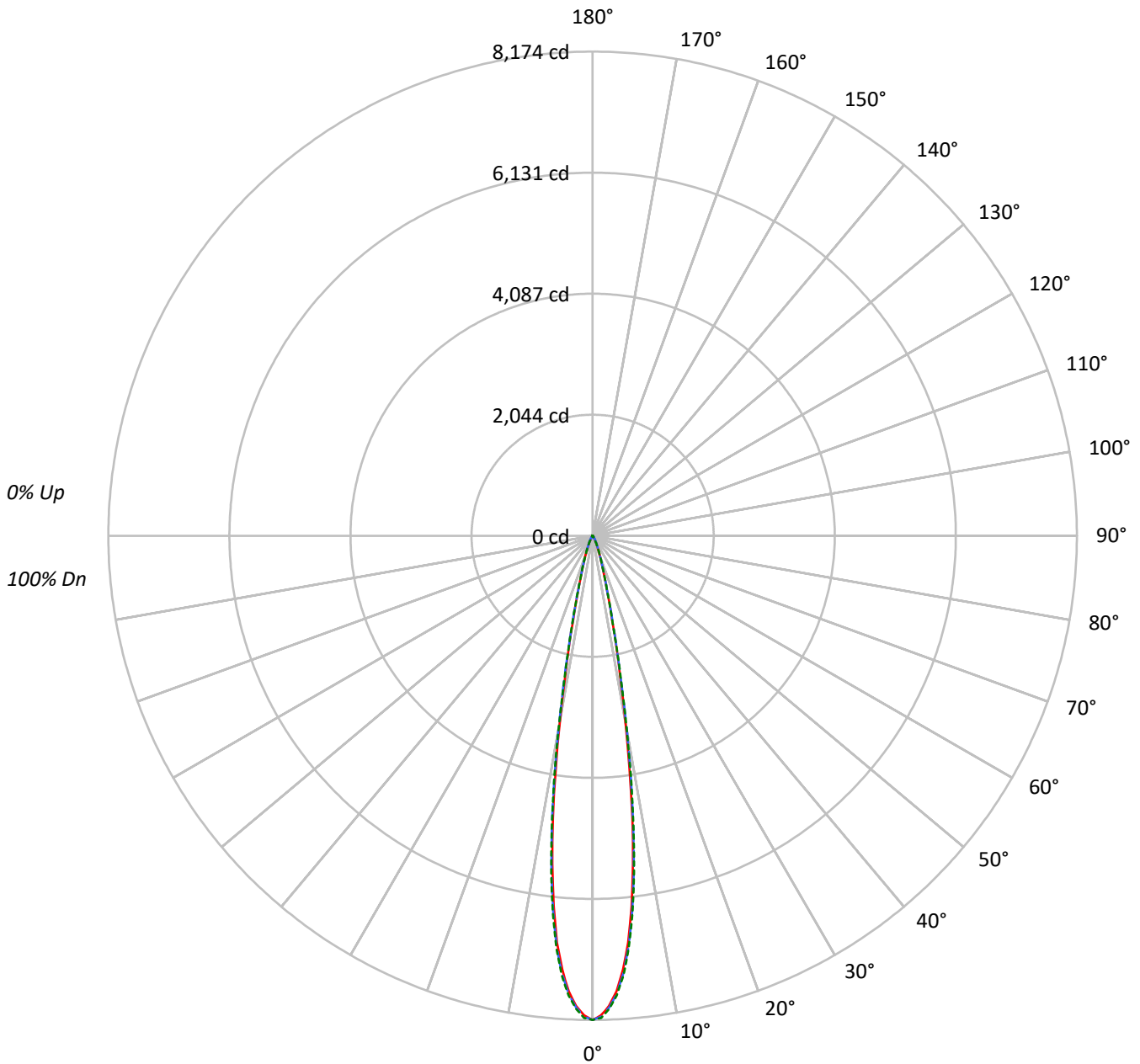
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	98	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°	4032838	4032838	4032838
5°	3413337	3449044	3464050
10°	1596149	1656616	1659823
15°	467504	474297	474042
20°	187749	187959	188221
25°	83723	92215	85683
30°	35548	48879	32415
35°	16322	22646	15178
40°	5346	8888	4701
45°	0	3210	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°	540.2	56.8
10°-20°	306.2	32.2
20°-30°	80.0	8.4
30°-40°	20.6	2.2
40°-50°	2.0	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°	926.3	97.5
0°-40°	947.0	99.6
0°-60°	949.6	99.9
0°-90°	950.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	950.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8174	8174	8174	8174	8174	
5°	6892	6954	6964	6920	6995	533
15°	915	928	929	918	928	300
25°	154	167	169	162	157	76
35°	27	29	38	26	25	19
45°	0	2	5	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°	8174.2	8174.2	8174.2	8174.2	8174.2
1°	8097.6	8129.7	8120.1	8108.6	8140.7
2°	7941.5	7972.7	7970.0	7954.8	7992.5
3°	7701.0	7744.6	7744.6	7722.1	7768.9
4°	7342.5	7409.1	7415.5	7383.8	7442.1
5°	6892.2	6953.7	6964.3	6920.2	6994.6
6°	6282.2	6366.2	6390.0	6339.1	6415.3
7°	5581.2	5669.4	5705.6	5648.7	5734.1
8°	4825.2	4888.6	4932.2	4867.0	4953.8
9°	3979.3	4070.6	4110.5	4047.2	4131.6
10°	3186.1	3270.1	3306.8	3291.6	3313.2
11°	2474.6	2548.9	2573.7	2553.1	2563.2
12°	1937.5	1967.4	1983.4	1969.7	1976.5
13°	1471.2	1511.1	1518.4	1512.5	1515.7
14°	1148.9	1168.2	1176.5	1173.7	1175.1
15°	915.3	927.7	928.6	918.0	928.1
16°	737.2	746.8	751.0	739.9	753.3
17°	604.1	611.9	616.5	605.4	611.0
18°	497.1	503.1	509.5	499.9	508.1
19°	417.3	420.9	421.4	418.6	420.9
20°	357.6	355.7	358.0	353.0	358.5
22.5°	235.5	240.1	245.6	239.6	241.9
25°	153.8	166.6	169.4	161.6	157.4
26°	126.7	143.2	150.6	138.2	124.9
27°	105.1	117.1	126.7	110.2	99.6
28°	92.3	102.4	112.0	96.4	84.0
29°	77.1	87.2	103.7	85.8	78.0
30°	62.4	69.8	85.8	65.2	56.9
32.5°	35.3	41.3	55.5	38.6	31.7
35°	27.1	28.9	37.6	25.7	25.2
37.5°	23.4	21.1	29.4	21.1	17.0
40°	8.3	12.4	13.8	9.2	7.3
42.5°	3.7	3.7	6.0	1.8	1.8
45°	0.0	1.8	4.6	0.5	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	2.3	0.9	0.5	0.0
57.5°	2.8	2.3	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	0.5	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°	4.6	0.9	1.4	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	0.5	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°	1.8	1.4	0.0	0.0	1.8



(END OF REPORT)