

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: P282202

Luminaire Tested: **LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 963.4 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

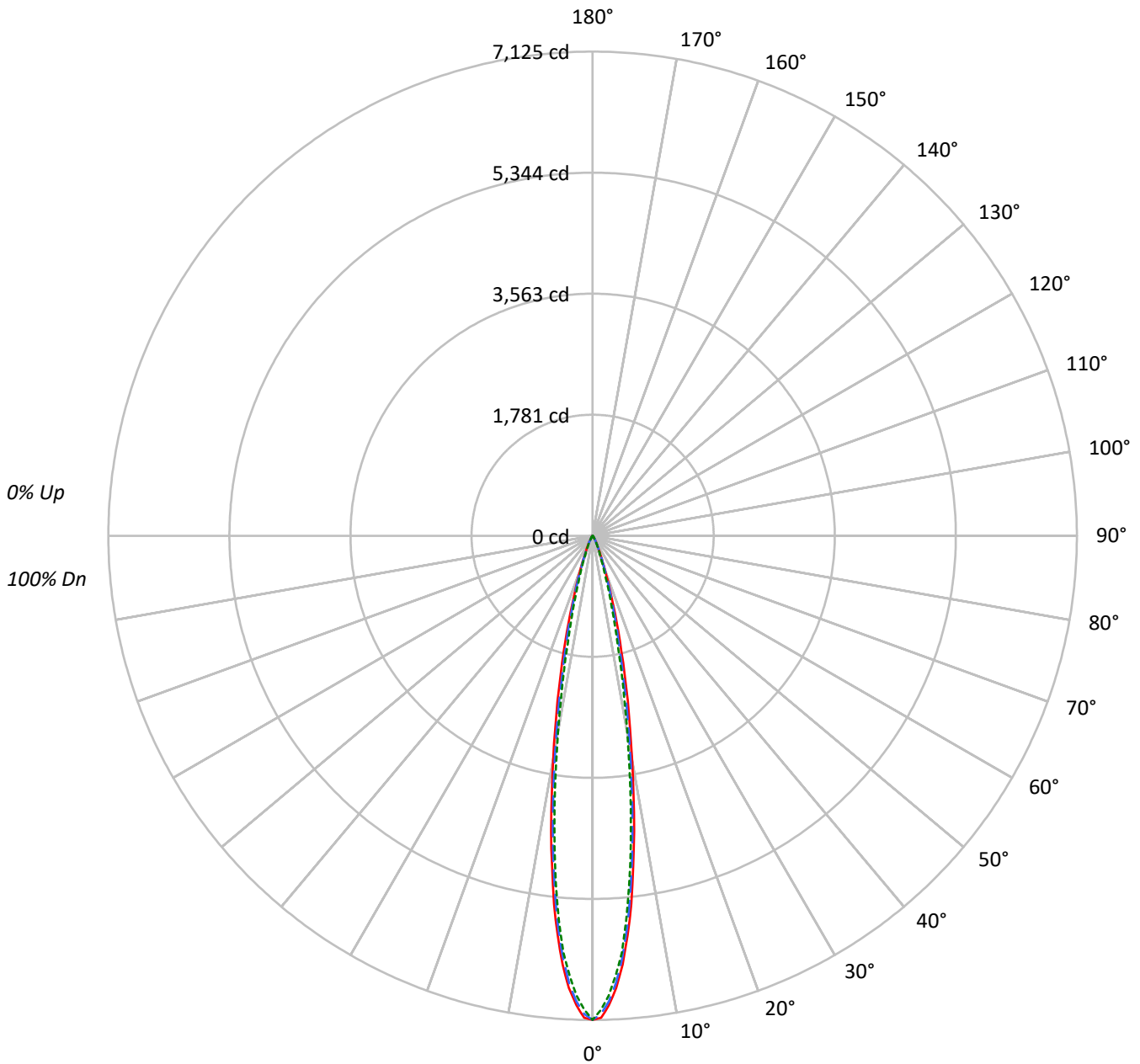
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	89	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

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

	0°	45°	90°
0°	3515005	3515005	3515005
5°	2924826	2871240	2813247
10°	1675303	1572102	1467199
15°	745156	661799	554589
20°	270335	254164	201347
25°	103810	96897	83451
30°	44777	41644	36916
35°	21200	21200	17526
40°	10627	10949	8823
45°	6140	5721	5372
50°	4221	3761	3761
55°	3269	2322	2838
60°	2664	1579	2171
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.4	48.1
10°-20°	375.0	38.9
20°-30°	90.4	9.4
30°-40°	23.1	2.4
40°-50°	6.9	0.7
50°-60°	2.9	0.3
60°-70°	1.4	0.1
70°-80°	0.4	0.0
80°-90°	0.0	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°	928.8	96.4
0°-40°	951.8	98.8
0°-60°	961.6	99.8
0°-90°	963.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7125	7125	7125	7125	7125	
5°	5906	5851	5798	5747	5680	478
15°	1459	1424	1296	1167	1086	416
25°	191	192	178	162	153	98
35°	35	36	35	32	29	24
45°	9	9	8	8	8	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7124.6	7124.6	7124.6	7124.6	7124.6
1°	7092.7	7043.2	7037.2	7068.0	6977.3
2°	6911.4	6876.2	6855.9	6874.0	6771.2
3°	6662.4	6628.4	6591.6	6592.1	6477.3
4°	6323.4	6296.5	6234.4	6215.7	6149.2
5°	5905.8	5851.4	5797.6	5747.0	5680.5
6°	5444.2	5373.9	5297.0	5221.7	5153.6
7°	4901.4	4854.7	4753.0	4650.3	4592.6
8°	4390.9	4315.6	4196.9	4068.4	4019.4
9°	3842.0	3788.1	3651.8	3502.4	3453.5
10°	3344.1	3288.1	3138.1	2971.6	2928.7
11°	2877.1	2824.3	2668.3	2493.5	2447.9
12°	2482.0	2407.3	2228.1	2076.5	2032.0
13°	2088.6	2037.5	1867.7	1717.7	1631.4
14°	1753.9	1711.6	1557.8	1425.9	1334.7
15°	1458.9	1424.3	1295.7	1167.1	1085.8
16°	1196.8	1175.3	1073.7	949.5	883.0
17°	970.9	951.2	886.3	772.0	716.0
18°	784.1	781.4	727.5	628.6	578.6
19°	645.1	644.0	594.5	511.6	470.4
20°	514.9	522.0	484.1	411.6	383.5
21°	419.8	423.6	393.4	338.5	313.2
22°	341.8	344.5	324.7	279.7	265.9
23°	280.2	281.9	265.4	231.9	219.8
24°	230.8	231.9	217.0	193.4	183.0
25°	190.7	191.8	178.0	161.5	153.3
26°	158.3	159.3	147.3	135.7	127.5
27°	131.3	133.5	121.4	114.3	105.5
28°	112.1	112.6	101.7	97.3	89.0
29°	91.8	95.1	85.7	81.9	75.8
30°	78.6	80.2	73.1	70.3	64.8
32.5°	52.2	53.3	50.0	47.8	43.4
35°	35.2	35.7	35.2	31.9	29.1
37.5°	24.2	24.2	24.7	20.9	19.8
40°	16.5	16.5	17.0	14.3	13.7
42.5°	12.1	12.1	11.5	9.9	9.9
45°	8.8	8.8	8.2	7.7	7.7
47.5°	7.1	6.6	6.0	6.0	6.0
50°	5.5	5.5	4.9	4.4	4.9
52.5°	4.4	4.4	3.8	3.8	3.8
55°	3.8	3.3	2.7	2.7	3.3
57.5°	2.7	2.7	2.2	2.2	2.7
60°	2.7	2.2	1.6	2.2	2.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.2	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)