

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: P282266

Luminaire Tested: **LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282266
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: LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 690.2 lumens
Efficiency: N/A
Efficacy: 69.0 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

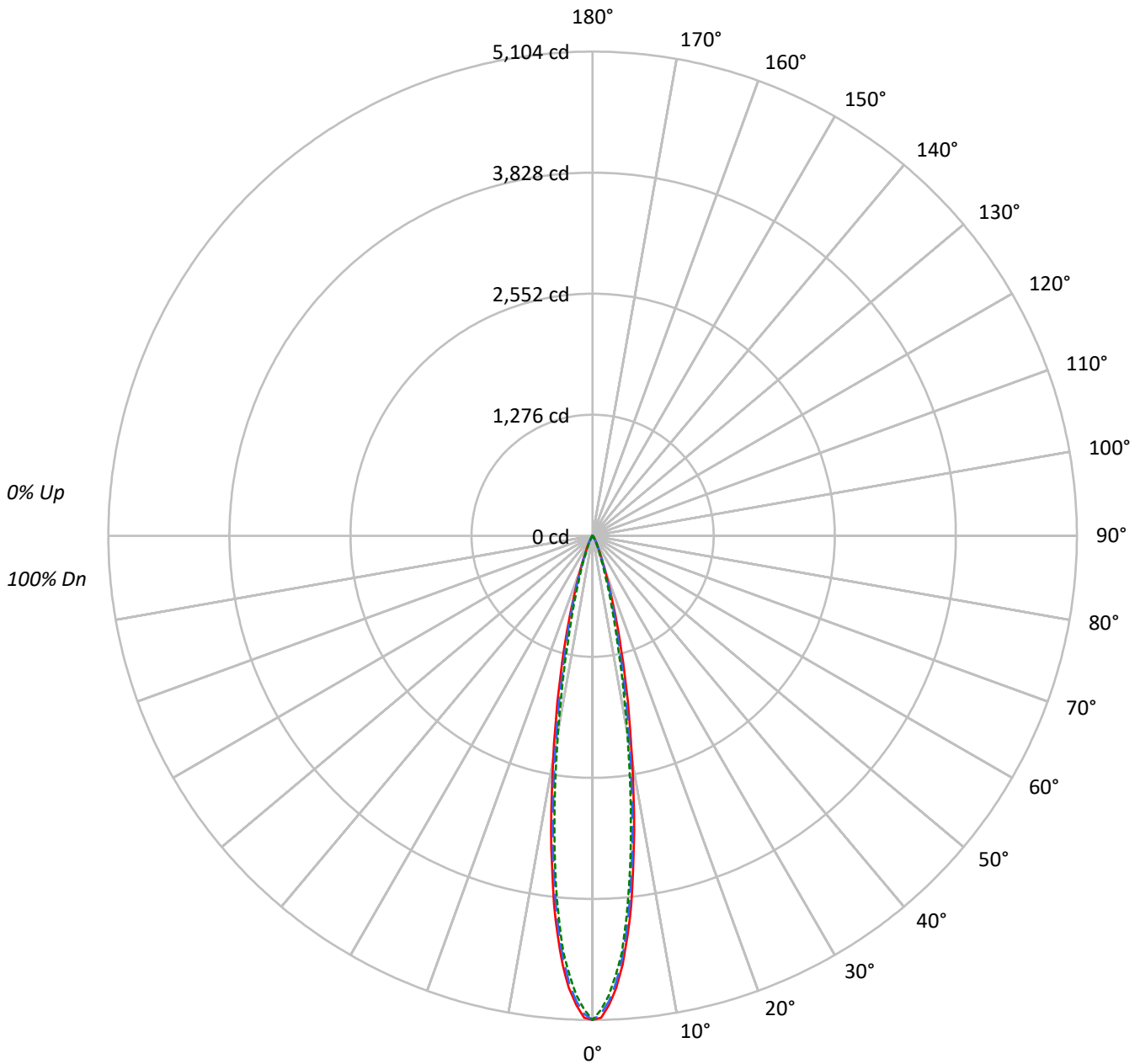
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282266

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P282266

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MW

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	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	84	96	90	87	84	89	86	84	88	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°	2517921	2517921	2517921
5°	2095140	2056758	2015207
10°	1200080	1126137	1050991
15°	533750	474042	397274
20°	193629	182079	144224
25°	74360	69406	59771
30°	32073	29852	26433
35°	15178	15178	12588
40°	7600	7857	6312
45°	4396	4117	3837
50°	2993	2686	2686
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282266

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.9	48.1
10°-20°	268.6	38.9
20°-30°	64.8	9.4
30°-40°	16.5	2.4
40°-50°	4.9	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	665.3	96.4
0°-40°	681.8	98.8
0°-60°	688.9	99.8
0°-90°	690.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5104	5104	5104	5104	5104	
5°	4230	4192	4153	4117	4069	342
15°	1045	1020	928	836	778	298
25°	137	137	128	116	110	71
35°	25	26	25	23	21	17
45°	6	6	6	6	6	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282266

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5103.6	5103.6	5103.6	5103.6	5103.6
1°	5080.7	5045.3	5041.0	5063.0	4998.1
2°	4950.8	4925.6	4911.1	4924.1	4850.5
3°	4772.5	4748.1	4721.8	4722.1	4639.9
4°	4529.7	4510.4	4465.9	4452.5	4404.9
5°	4230.5	4191.6	4153.0	4116.8	4069.1
6°	3899.9	3849.5	3794.4	3740.5	3691.7
7°	3511.0	3477.6	3404.7	3331.1	3289.8
8°	3145.3	3091.4	3006.4	2914.3	2879.3
9°	2752.1	2713.6	2615.9	2508.9	2473.8
10°	2395.5	2355.4	2247.9	2128.6	2097.9
11°	2060.9	2023.2	1911.4	1786.2	1753.5
12°	1777.9	1724.4	1596.1	1487.5	1455.6
13°	1496.1	1459.5	1337.9	1230.4	1168.6
14°	1256.4	1226.1	1115.9	1021.4	956.1
15°	1045.0	1020.2	928.1	836.0	777.8
16°	857.3	841.9	769.1	680.2	632.5
17°	695.5	681.3	634.9	553.0	512.9
18°	561.7	559.7	521.1	450.3	414.5
19°	462.1	461.3	425.9	366.5	336.9
20°	368.8	373.9	346.8	294.8	274.7
21°	300.7	303.5	281.8	242.5	224.4
22°	244.8	246.8	232.6	200.3	190.5
23°	200.7	201.9	190.1	166.1	157.4
24°	165.3	166.1	155.5	138.6	131.1
25°	136.6	137.4	127.5	115.7	109.8
26°	113.4	114.1	105.5	97.2	91.3
27°	94.1	95.6	87.0	81.9	75.6
28°	80.3	80.7	72.8	69.7	63.8
29°	65.7	68.1	61.4	58.6	54.3
30°	56.3	57.5	52.4	50.4	46.4
32.5°	37.4	38.2	35.8	34.2	31.1
35°	25.2	25.6	25.2	22.8	20.9
37.5°	17.3	17.3	17.7	15.0	14.2
40°	11.8	11.8	12.2	10.2	9.8
42.5°	8.7	8.7	8.3	7.1	7.1
45°	6.3	6.3	5.9	5.5	5.5
47.5°	5.1	4.7	4.3	4.3	4.3
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



TEST NUMBER: P282266

CATALOG NUMBER: LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)