

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: P283526

Luminaire Tested: **LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 487.5 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

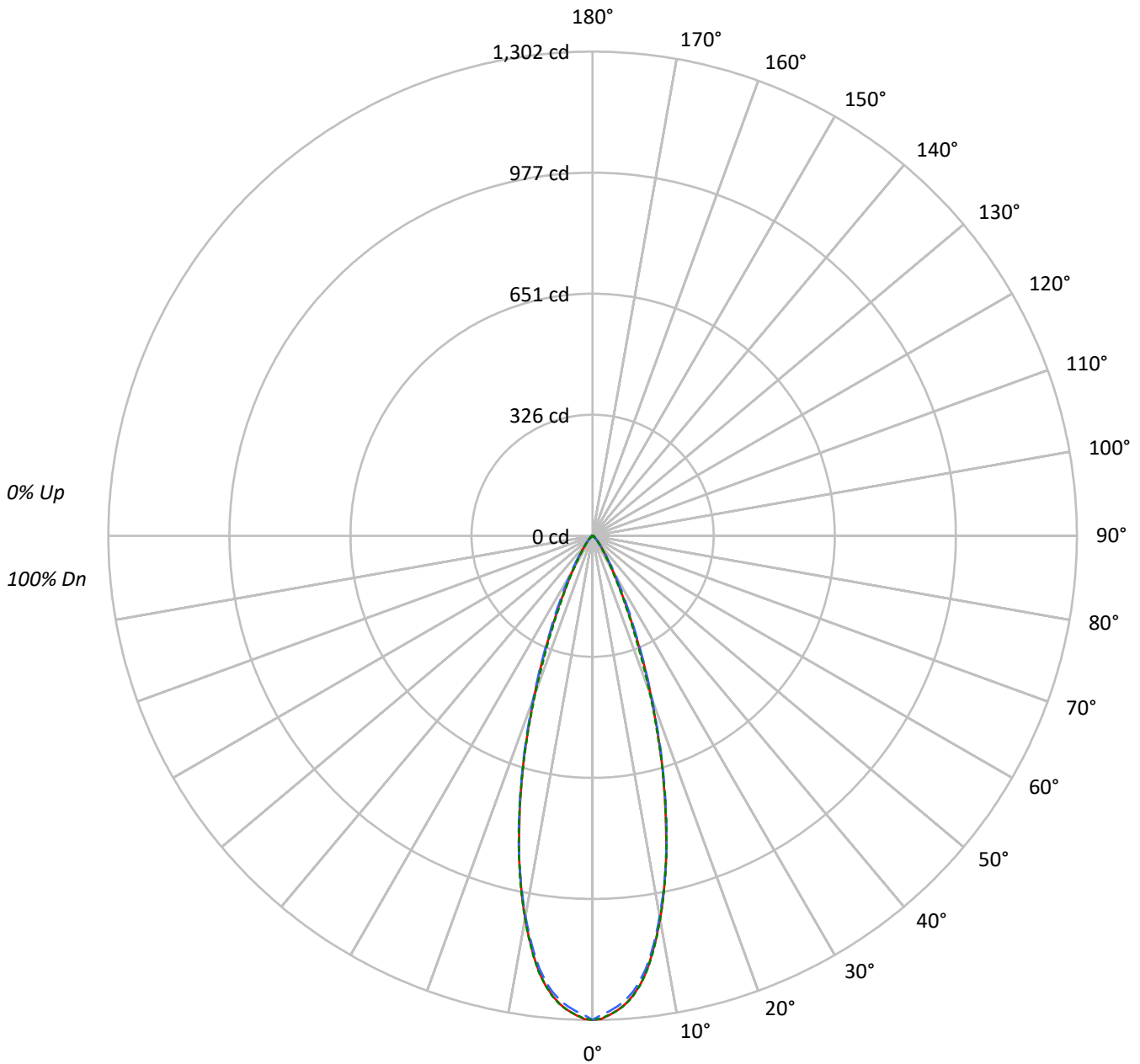
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283526

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283526

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	642308	642308	642308
5°	614700	610094	615641
10°	523717	520410	524268
15°	385986	388488	387263
20°	240986	245397	235631
25°	124496	133533	118236
30°	59703	68419	56855
35°	30777	34089	28849
40°	17260	18162	16359
45°	10466	10466	10117
50°	5449	6754	5449
55°	2838	4473	3097
60°	3256	3256	3256
65°	3502	3502	3502
70°	4327	3895	4327
75°	4194	4194	4194
80°	3978	3978	3978
85°	2830	2830	2830



TEST NUMBER: P283526

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	23.0
10°-20°	205.7	42.2
20°-30°	111.5	22.9
30°-40°	35.8	7.3
40°-50°	12.2	2.5
50°-60°	4.3	0.9
60°-70°	3.1	0.6
70°-80°	2.3	0.5
80°-90°	0.6	0.1
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°	429.2	88.0
0°-40°	465.0	95.4
0°-60°	481.5	98.8
0°-90°	487.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	487.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1241	1234	1232	1244	1243	112
15°	756	762	761	764	758	205
25°	229	239	245	228	217	110
35°	51	53	57	51	48	34
45°	15	15	15	15	14	12
55°	3	4	5	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P283526

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.9	1301.9	1301.9	1301.9	1301.9
1°	1299.7	1290.4	1289.1	1301.1	1298.4
2°	1289.3	1280.6	1279.2	1291.3	1288.8
3°	1277.9	1269.9	1267.2	1279.8	1278.1
4°	1262.5	1255.2	1252.7	1265.3	1263.9
5°	1241.2	1233.6	1231.9	1244.2	1243.1
6°	1215.0	1208.7	1205.7	1218.0	1215.8
7°	1182.1	1176.4	1173.1	1182.1	1183.2
8°	1139.5	1136.7	1132.9	1141.9	1141.9
9°	1094.1	1091.6	1087.5	1095.7	1095.7
10°	1045.4	1043.7	1038.8	1046.5	1046.5
11°	992.0	991.2	987.7	994.0	994.0
12°	936.0	937.9	934.6	940.1	938.2
13°	879.9	879.1	879.3	883.5	880.4
14°	816.4	821.4	822.2	824.6	820.0
15°	755.7	762.0	760.6	764.2	758.2
16°	693.6	700.7	700.5	701.3	695.5
17°	635.6	639.8	640.0	639.2	632.1
18°	573.8	579.6	579.6	578.2	569.7
19°	513.4	517.8	520.8	517.8	507.9
20°	459.0	462.0	467.4	459.8	448.8
21°	406.7	409.5	414.1	405.1	393.0
22°	356.7	360.2	364.6	354.2	341.6
23°	309.9	318.1	319.7	305.5	294.8
24°	267.0	276.2	279.0	264.5	253.3
25°	228.7	239.1	245.3	228.4	217.2
26°	195.6	205.7	213.3	196.4	185.7
27°	166.6	177.2	185.2	169.3	159.2
28°	141.7	152.1	160.3	145.5	135.9
29°	123.1	129.1	137.3	125.0	116.2
30°	104.8	111.3	120.1	107.5	99.8
32.5°	71.9	75.5	82.3	74.7	68.7
35°	51.1	53.3	56.6	51.4	47.9
37.5°	36.4	37.5	39.4	36.4	34.5
40°	26.8	27.4	28.2	26.5	25.4
42.5°	20.0	20.2	20.2	19.7	19.1
45°	15.0	15.3	15.0	15.0	14.5
47.5°	10.9	11.8	11.5	11.5	10.7
50°	7.1	8.8	8.8	8.5	7.1
52.5°	4.4	6.0	6.8	6.0	4.6
55°	3.3	4.1	5.2	4.1	3.6
57.5°	3.3	3.3	3.8	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P283526

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.5	2.7	2.5
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.0	3.3	3.0



(END OF REPORT)