

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: P283528

Luminaire Tested: **LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283528
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 482.0 lumens
Efficiency: N/A
Efficacy: 68.9 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

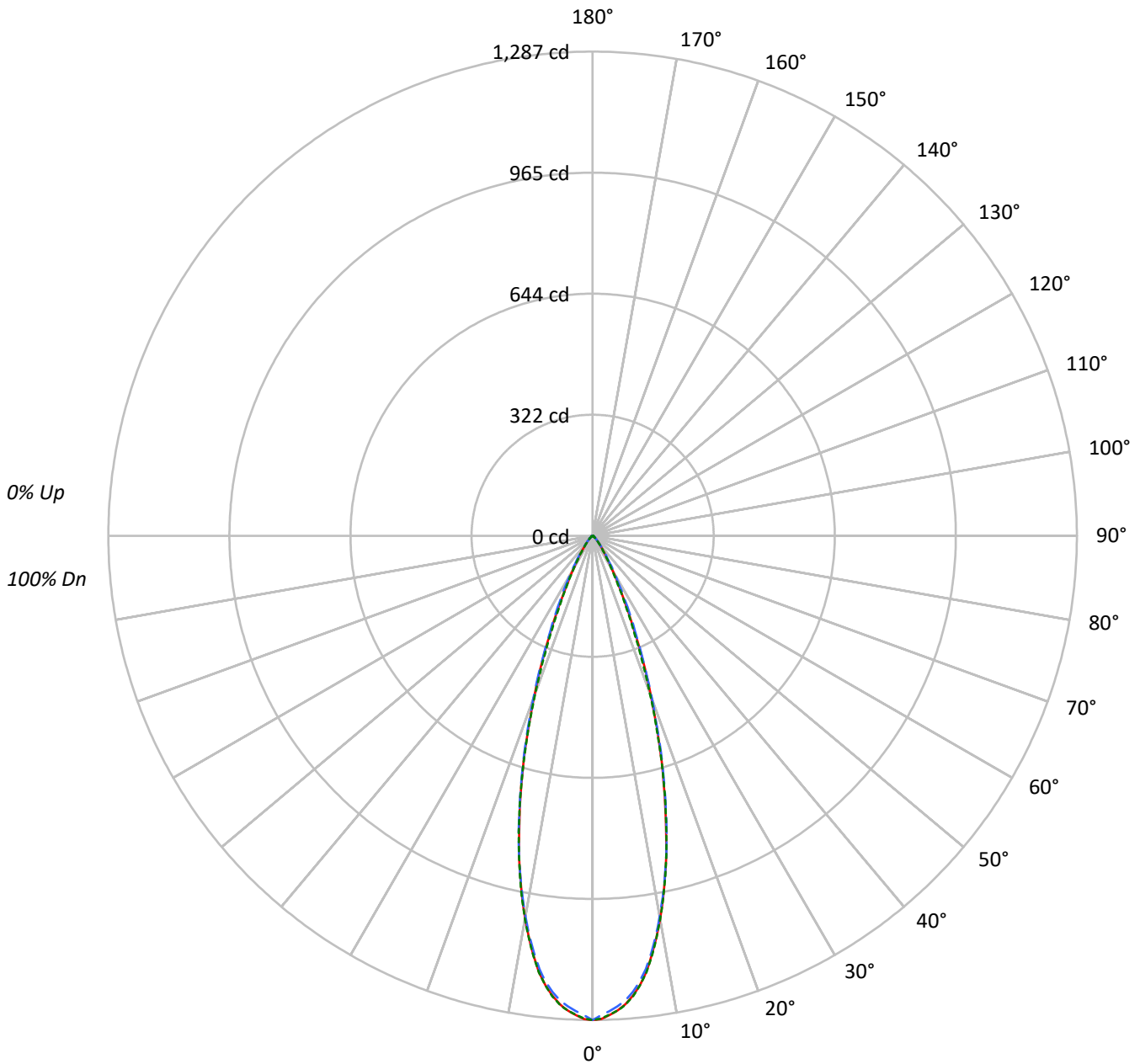
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283528

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283528

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MMS

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°	635105	635105	635105
5°	607816	603260	608757
10°	517805	514599	518356
15°	381644	384147	382921
20°	238256	242666	233006
25°	123081	132063	116875
30°	59019	67622	56228
35°	30476	33728	28488
40°	17067	17969	16230
45°	10396	10396	9977
50°	5373	6678	5373
55°	2752	4387	3011
60°	3158	3158	3158
65°	3502	3502	3502
70°	4327	3895	4327
75°	4194	4194	4194
80°	3978	3978	3978
85°	2830	2830	2830



TEST NUMBER: P283528

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	23.0
10°-20°	203.4	42.2
20°-30°	110.3	22.9
30°-40°	35.4	7.3
40°-50°	12.1	2.5
50°-60°	4.2	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°	424.4	88.0
0°-40°	459.8	95.4
0°-60°	476.1	98.8
0°-90°	482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1227	1220	1218	1230	1229	111
15°	747	754	752	756	750	203
25°	226	236	243	226	215	108
35°	51	53	56	51	47	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: P283528

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.3	1287.3	1287.3	1287.3	1287.3
1°	1285.2	1276.0	1274.6	1286.5	1283.8
2°	1274.9	1266.2	1264.9	1276.8	1274.3
3°	1263.5	1255.7	1253.0	1265.4	1263.8
4°	1248.4	1241.1	1238.6	1251.1	1249.7
5°	1227.3	1219.7	1218.1	1230.3	1229.2
6°	1201.3	1195.1	1192.1	1204.3	1202.1
7°	1168.9	1163.2	1159.9	1168.9	1169.9
8°	1126.7	1124.0	1120.2	1129.1	1129.1
9°	1081.8	1079.3	1075.3	1083.4	1083.4
10°	1033.6	1032.0	1027.2	1034.7	1034.7
11°	980.9	980.1	976.6	982.8	982.8
12°	925.5	927.4	924.1	929.5	927.6
13°	870.0	869.2	869.5	873.5	870.6
14°	807.3	812.1	813.0	815.4	810.8
15°	747.2	753.5	752.1	755.6	749.7
16°	685.8	692.9	692.6	693.4	687.7
17°	628.5	632.6	632.8	632.0	625.0
18°	567.4	573.1	573.1	571.7	563.3
19°	507.6	512.0	514.9	512.0	502.2
20°	453.8	456.8	462.2	454.6	443.8
21°	402.2	404.9	409.5	400.5	388.6
22°	352.7	356.2	360.5	350.2	337.8
23°	306.4	314.5	316.2	302.1	291.5
24°	264.0	273.1	275.9	261.5	250.4
25°	226.1	236.4	242.6	225.8	214.7
26°	193.4	203.4	210.9	194.2	183.6
27°	164.7	175.2	183.1	167.4	157.4
28°	140.1	150.4	158.5	143.9	134.4
29°	121.7	127.7	135.8	123.6	114.9
30°	103.6	110.1	118.7	106.3	98.7
32.5°	71.1	74.6	81.4	73.8	67.9
35°	50.6	52.7	56.0	50.8	47.3
37.5°	36.0	37.1	38.9	36.0	34.1
40°	26.5	27.0	27.9	26.2	25.2
42.5°	19.7	20.0	20.0	19.5	18.9
45°	14.9	15.1	14.9	14.9	14.3
47.5°	10.8	11.6	11.4	11.4	10.5
50°	7.0	8.7	8.7	8.4	7.0
52.5°	4.3	5.9	6.8	5.9	4.6
55°	3.2	4.1	5.1	4.1	3.5
57.5°	3.2	3.2	3.8	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P283528

CATALOG NUMBER: LDA2B059727D010 EU2B05FL409727 2LBAPINSQ1MMS

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	2.4	2.7	2.4
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°	3.2	3.2	3.2	3.2	3.2
65°	3.0	3.2	3.0	3.2	3.0



(END OF REPORT)