

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: P283498

Luminaire Tested: **LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283498
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: LDA2B059027D010 EU2B05FL409027 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: 535.7 lumens
Efficiency: N/A
Efficacy: 76.5 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

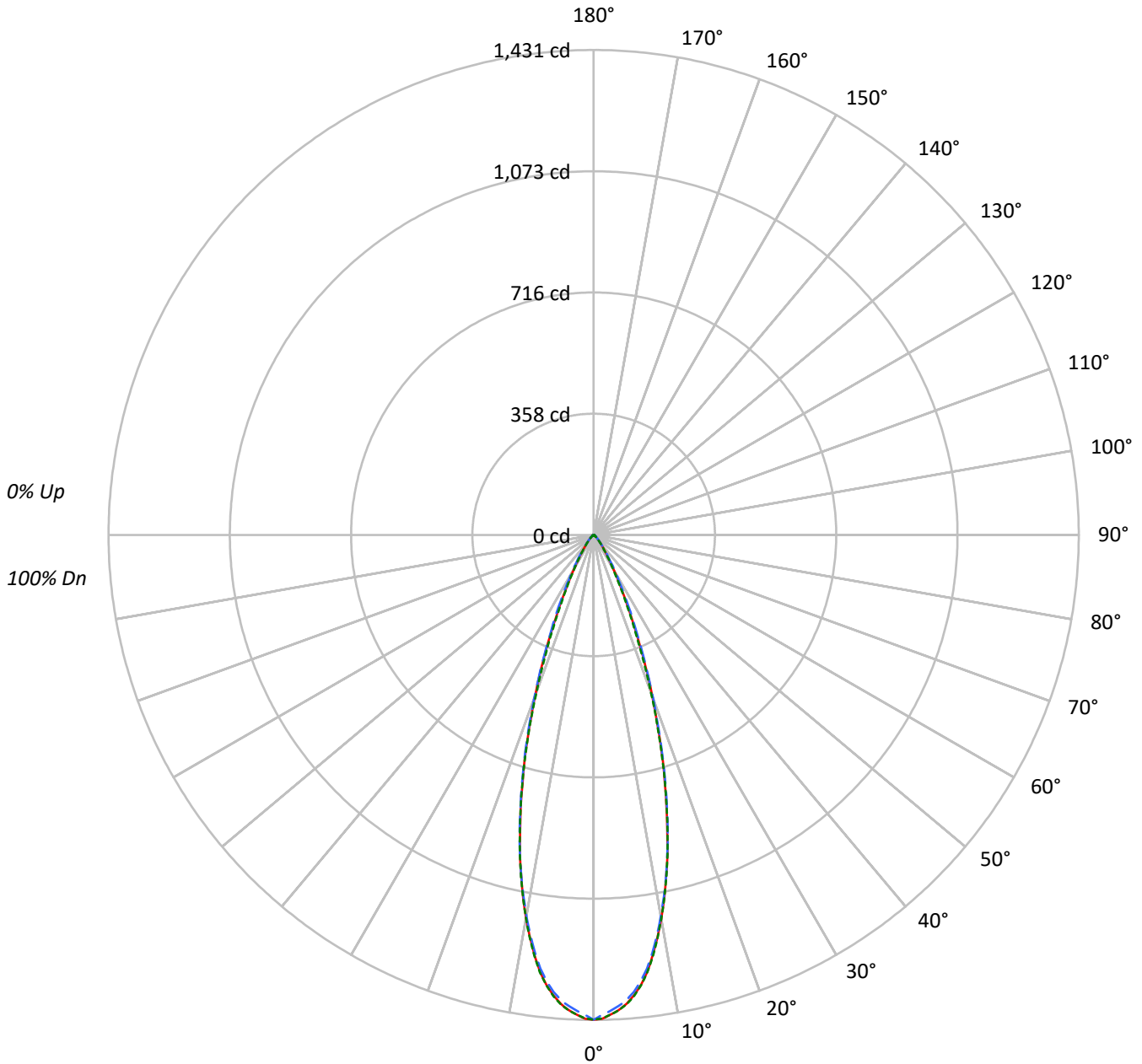
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283498

CATALOG NUMBER: LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283498

CATALOG NUMBER: LDA2B059027D010 EU2B05FL409027 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	75	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°	705853	705853	705853
5°	675516	670465	676556
10°	575517	571910	576119
15°	424191	426949	425570
20°	264822	269705	258942
25°	136799	146761	129940
30°	65571	75141	62494
35°	33848	37462	31680
40°	18999	19965	18033
45°	11512	11512	11094
50°	5987	7368	5987
55°	3097	4903	3355
60°	3552	3552	3552
65°	3852	3852	3852
70°	4760	4327	4760
75°	4575	4575	4575
80°	4262	4262	4262
85°	3396	3396	3396



TEST NUMBER: P283498

CATALOG NUMBER: LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	23.0
10°-20°	226.0	42.2
20°-30°	122.6	22.9
30°-40°	39.3	7.3
40°-50°	13.4	2.5
50°-60°	4.7	0.9
60°-70°	3.4	0.6
70°-80°	2.5	0.5
80°-90°	0.7	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°	471.7	88.0
0°-40°	511.0	95.4
0°-60°	529.1	98.8
0°-90°	535.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	535.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1364	1356	1354	1367	1366	123
15°	830	837	836	840	833	225
25°	251	263	270	251	239	120
35°	56	59	62	56	53	38
45°	16	17	16	16	16	13
55°	4	4	6	4	4	4
65°	3	4	3	4	3	3
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283498

CATALOG NUMBER: LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.7	1430.7	1430.7	1430.7	1430.7
1°	1428.3	1418.1	1416.6	1429.8	1426.8
2°	1416.9	1407.3	1405.8	1419.0	1416.3
3°	1404.3	1395.5	1392.5	1406.4	1404.6
4°	1387.4	1379.3	1376.6	1390.4	1388.9
5°	1364.0	1355.6	1353.8	1367.3	1366.1
6°	1335.1	1328.2	1324.9	1338.4	1336.0
7°	1299.1	1292.7	1289.1	1299.1	1300.3
8°	1252.2	1249.2	1245.0	1254.9	1254.9
9°	1202.3	1199.6	1195.1	1204.1	1204.1
10°	1148.8	1147.0	1141.6	1150.0	1150.0
11°	1090.2	1089.3	1085.4	1092.3	1092.3
12°	1028.5	1030.7	1027.0	1033.1	1031.0
13°	966.9	966.0	966.3	970.8	967.5
14°	897.2	902.6	903.5	906.2	901.1
15°	830.5	837.4	835.9	839.8	833.2
16°	762.2	770.1	769.8	770.7	764.3
17°	698.5	703.0	703.3	702.4	694.6
18°	630.6	636.9	636.9	635.4	626.1
19°	564.2	569.0	572.3	569.0	558.2
20°	504.4	507.7	513.7	505.3	493.2
21°	446.9	450.0	455.1	445.1	431.9
22°	391.9	395.8	400.7	389.2	375.4
23°	340.5	349.6	351.4	335.7	324.0
24°	293.4	303.6	306.6	290.7	278.3
25°	251.3	262.7	269.6	251.0	238.7
26°	214.9	226.0	234.4	215.8	204.1
27°	183.0	194.8	203.5	186.1	174.9
28°	155.7	167.1	176.1	159.9	149.4
29°	135.3	141.9	150.9	137.4	127.7
30°	115.1	122.3	131.9	118.1	109.7
32.5°	79.0	83.0	90.5	82.1	75.4
35°	56.2	58.6	62.2	56.5	52.6
37.5°	40.0	41.2	43.3	40.0	37.9
40°	29.5	30.1	31.0	29.2	28.0
42.5°	21.9	22.2	22.2	21.6	21.0
45°	16.5	16.8	16.5	16.5	15.9
47.5°	12.0	12.9	12.6	12.6	11.7
50°	7.8	9.6	9.6	9.3	7.8
52.5°	4.8	6.6	7.5	6.6	5.1
55°	3.6	4.5	5.7	4.5	3.9
57.5°	3.6	3.6	4.2	3.6	3.6
60°	3.6	3.6	3.6	3.6	3.6



TEST NUMBER: P283498

CATALOG NUMBER: LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.0	3.3	3.3
72.5°	3.0	3.0	2.7	3.0	2.7
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.9	0.9	0.9	1.2	0.9
85°	0.6	0.6	0.6	0.6	0.6
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°	3.6	3.6	3.6	3.6	3.6
65°	3.3	3.6	3.3	3.6	3.3



(END OF REPORT)