

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: P283515

Luminaire Tested: **LDA2B059040D010 EU2B05FL409040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283515
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: LDA2B059040D010 EU2B05FL409040 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 580.2 lumens
Efficiency: N/A
Efficacy: 82.9 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

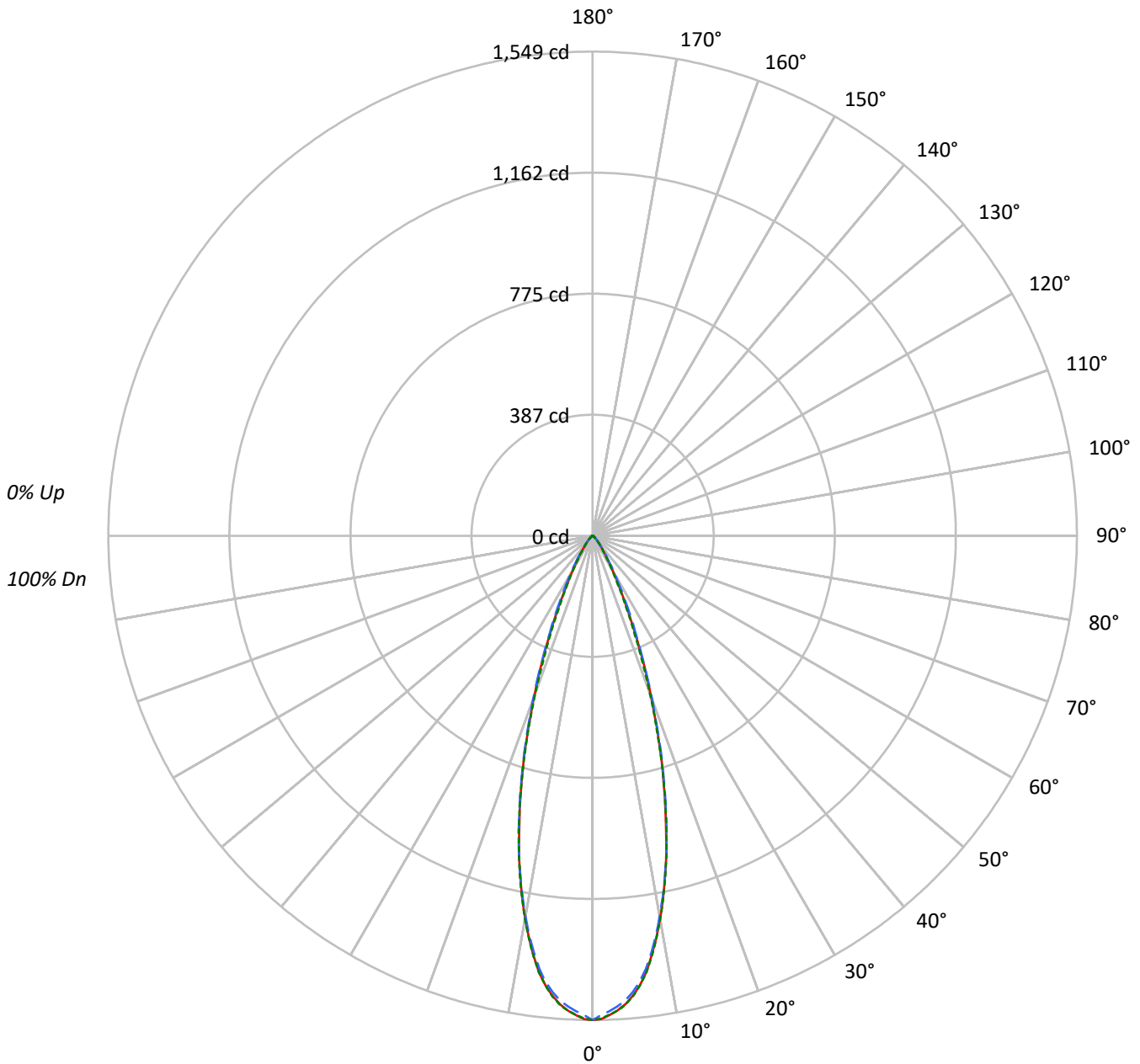
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
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°	764365	764365	764365
5°	731528	726031	732667
10°	623210	619302	623861
15°	459332	462345	460864
20°	286768	292071	280416
25°	148122	158954	140664
30°	71040	81408	67679
35°	36679	40594	34330
40°	20545	21575	19514
45°	12489	12489	12071
50°	6524	7982	6524
55°	3355	5333	3613
60°	3848	3848	3848
65°	4203	4203	4203
70°	5193	4760	5193
75°	4956	4956	4956
80°	4546	4546	4546
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	23.0
10°-20°	244.8	42.2
20°-30°	132.7	22.9
30°-40°	42.6	7.3
40°-50°	14.5	2.5
50°-60°	5.1	0.9
60°-70°	3.7	0.6
70°-80°	2.7	0.5
80°-90°	0.8	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°	510.8	88.0
0°-40°	553.4	95.4
0°-60°	573.0	98.8
0°-90°	580.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1477	1468	1466	1481	1479	134
15°	899	907	905	909	902	244
25°	272	284	292	272	258	130
35°	61	64	67	61	57	41
45°	18	18	18	18	17	14
55°	4	5	6	5	4	4
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.3	1549.3	1549.3	1549.3	1549.3
1°	1546.7	1535.7	1534.0	1548.4	1545.1
2°	1534.4	1523.9	1522.3	1536.6	1533.7
3°	1520.7	1511.3	1508.0	1523.0	1521.0
4°	1502.5	1493.7	1490.7	1505.7	1504.1
5°	1477.1	1468.0	1466.0	1480.7	1479.4
6°	1445.8	1438.3	1434.8	1449.4	1446.8
7°	1406.8	1399.9	1396.0	1406.8	1408.1
8°	1356.0	1352.7	1348.2	1358.9	1358.9
9°	1302.0	1299.0	1294.1	1303.9	1303.9
10°	1244.0	1242.1	1236.2	1245.3	1245.3
11°	1180.6	1179.6	1175.3	1182.8	1182.8
12°	1113.8	1116.1	1112.2	1118.7	1116.4
13°	1047.1	1046.1	1046.5	1051.3	1047.8
14°	971.6	977.4	978.4	981.4	975.8
15°	899.3	906.8	905.2	909.4	902.3
16°	825.4	833.9	833.6	834.6	827.7
17°	756.4	761.3	761.6	760.7	752.2
18°	682.9	689.7	689.7	688.1	678.0
19°	610.9	616.2	619.7	616.2	604.4
20°	546.2	549.8	556.3	547.1	534.1
21°	484.0	487.3	492.8	482.1	467.7
22°	424.4	428.7	433.9	421.5	406.5
23°	368.8	378.5	380.5	363.6	350.9
24°	317.7	328.7	332.0	314.7	301.4
25°	272.1	284.5	292.0	271.8	258.4
26°	232.7	244.8	253.9	233.7	221.0
27°	198.2	210.9	220.4	201.5	189.4
28°	168.6	181.0	190.7	173.2	161.8
29°	146.5	153.6	163.4	148.7	138.3
30°	124.7	132.5	142.9	127.9	118.8
32.5°	85.6	89.8	98.0	88.9	81.7
35°	60.9	63.5	67.4	61.2	57.0
37.5°	43.3	44.6	46.9	43.3	41.0
40°	31.9	32.5	33.5	31.6	30.3
42.5°	23.8	24.1	24.1	23.4	22.8
45°	17.9	18.2	17.9	17.9	17.3
47.5°	13.0	14.0	13.7	13.7	12.7
50°	8.5	10.4	10.4	10.1	8.5
52.5°	5.2	7.2	8.1	7.2	5.5
55°	3.9	4.9	6.2	4.9	4.2
57.5°	3.9	3.9	4.6	3.9	3.9
60°	3.9	3.9	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.3	3.6	3.6
72.5°	3.3	3.3	2.9	3.3	2.9
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.0	1.0	1.0	1.3	1.0
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.6	3.9	3.6	3.9	3.6



(END OF REPORT)