

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: P283510

Luminaire Tested: **LDA2B059035D010 EU2B05FL409035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283510
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: LDA2B059035D010 EU2B05FL409035 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: 580.3 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

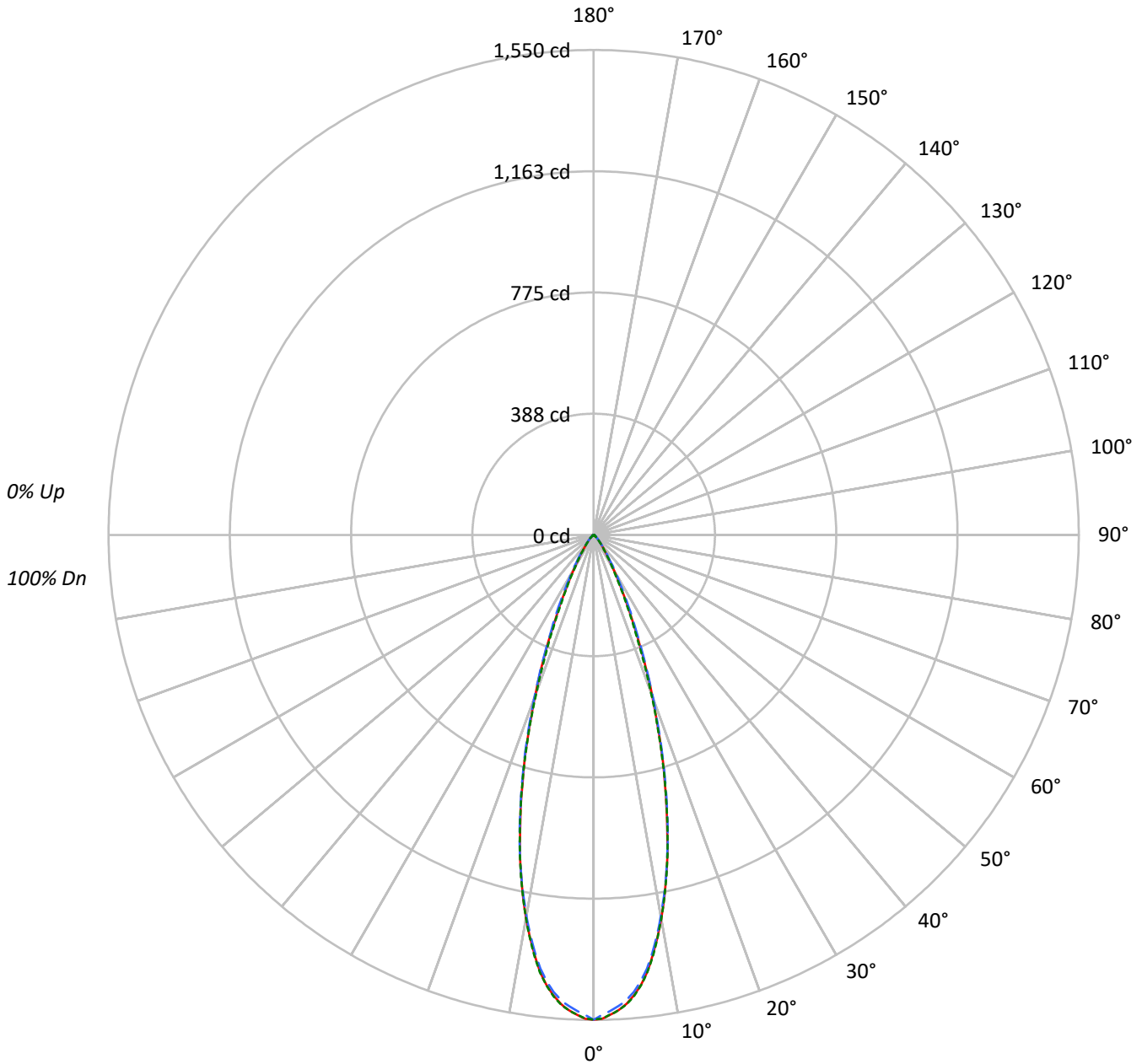
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	764513	764513	764513
5°	731627	726180	732766
10°	623360	619403	624012
15°	459434	462447	460915
20°	286821	292124	280468
25°	148176	158954	140718
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°	510.9	88.0
0°-40°	553.5	95.4
0°-60°	573.1	98.8
0°-90°	580.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1477	1468	1466	1481	1480	134
15°	900	907	905	910	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°	1549.6	1549.6	1549.6	1549.6	1549.6
1°	1547.0	1535.9	1534.3	1548.6	1545.4
2°	1534.6	1524.2	1522.6	1536.9	1534.0
3°	1521.0	1511.5	1508.3	1523.3	1521.3
4°	1502.7	1494.0	1491.0	1506.0	1504.4
5°	1477.3	1468.2	1466.3	1480.9	1479.6
6°	1446.1	1438.6	1435.0	1449.7	1447.1
7°	1407.0	1400.2	1396.3	1407.0	1408.3
8°	1356.2	1353.0	1348.4	1359.2	1359.2
9°	1302.2	1299.3	1294.4	1304.2	1304.2
10°	1244.3	1242.3	1236.4	1245.6	1245.6
11°	1180.8	1179.8	1175.6	1183.1	1183.1
12°	1114.0	1116.3	1112.4	1118.9	1116.6
13°	1047.3	1046.3	1046.6	1051.5	1047.9
14°	971.8	977.6	978.6	981.5	976.0
15°	899.5	907.0	905.4	909.6	902.4
16°	825.6	834.1	833.7	834.7	827.9
17°	756.6	761.5	761.8	760.8	752.3
18°	683.0	689.8	689.8	688.2	678.1
19°	611.1	616.3	619.8	616.3	604.5
20°	546.3	549.9	556.4	547.3	534.2
21°	484.1	487.3	492.9	482.1	467.8
22°	424.5	428.8	434.0	421.6	406.6
23°	368.8	378.6	380.6	363.6	350.9
24°	317.7	328.8	332.1	314.8	301.5
25°	272.2	284.5	292.0	271.8	258.5
26°	232.8	244.8	253.9	233.7	221.0
27°	198.3	211.0	220.4	201.5	189.5
28°	168.6	181.0	190.8	173.2	161.8
29°	146.5	153.7	163.4	148.8	138.4
30°	124.7	132.5	142.9	127.9	118.8
32.5°	85.6	89.9	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	32.6	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)