

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: P283578

Luminaire Tested: **LDA2B109024D010 EU2B10FL409024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283578
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: LDA2B109024D010 EU2B10FL409024 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 621.0 lumens
Efficiency: N/A
Efficacy: 62.1 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

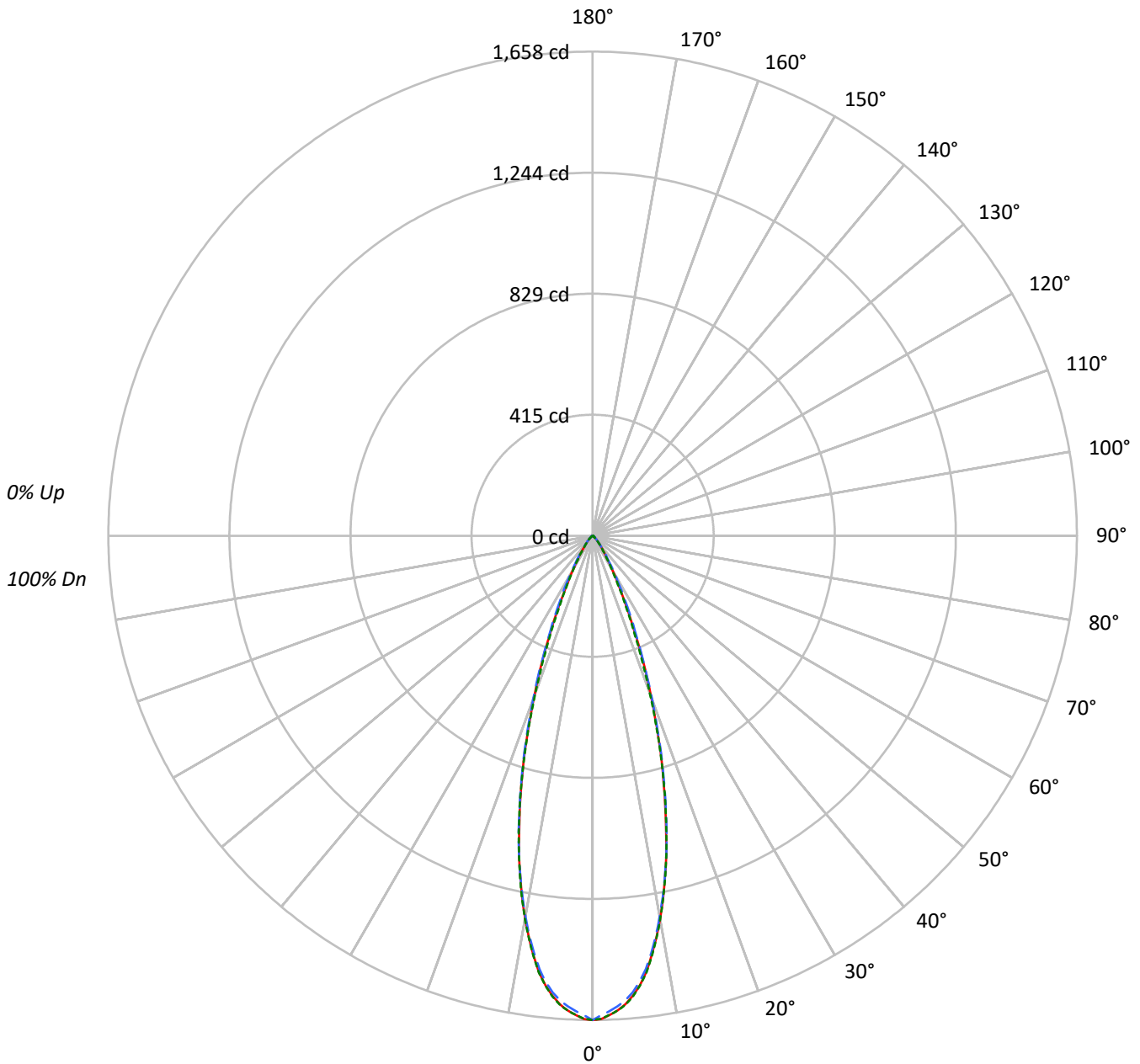
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	818241	818241	818241
5°	783084	777190	784272
10°	667145	662937	667847
15°	491714	494932	493349
20°	306982	312652	300209
25°	158573	170114	150626
30°	75996	87162	72464
35°	39269	43425	36739
40°	21962	23121	20867
45°	13396	13396	12908
50°	6985	8520	6985
55°	3613	5677	3871
60°	4144	4144	4144
65°	4436	4436	4436
70°	5481	5049	5481
75°	5337	5337	5337
80°	4830	4830	4830
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	23.0
10°-20°	262.0	42.2
20°-30°	142.1	22.9
30°-40°	45.6	7.3
40°-50°	15.5	2.5
50°-60°	5.4	0.9
60°-70°	4.0	0.6
70°-80°	2.9	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°	546.8	88.0
0°-40°	592.4	95.4
0°-60°	613.4	98.8
0°-90°	621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1581	1571	1569	1585	1584	143
15°	963	971	969	974	966	261
25°	291	304	312	291	277	140
35°	65	68	72	66	61	44
45°	19	20	19	19	18	15
55°	4	5	7	5	4	5
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°	1658.5	1658.5	1658.5	1658.5	1658.5
1°	1655.7	1643.9	1642.2	1657.5	1654.0
2°	1642.5	1631.4	1629.6	1644.9	1641.8
3°	1627.9	1617.8	1614.3	1630.3	1628.2
4°	1608.4	1599.0	1595.8	1611.8	1610.1
5°	1581.2	1571.4	1569.3	1585.0	1583.6
6°	1547.7	1539.7	1535.9	1551.6	1548.8
7°	1505.9	1498.6	1494.4	1505.9	1507.3
8°	1451.6	1448.1	1443.2	1454.7	1454.7
9°	1393.7	1390.6	1385.4	1395.8	1395.8
10°	1331.7	1329.6	1323.3	1333.1	1333.1
11°	1263.8	1262.7	1258.2	1266.2	1266.2
12°	1192.3	1194.8	1190.6	1197.6	1195.1
13°	1120.9	1119.9	1120.2	1125.4	1121.6
14°	1040.1	1046.3	1047.4	1050.5	1044.6
15°	962.7	970.7	969.0	973.5	965.9
16°	883.6	892.7	892.3	893.4	886.1
17°	809.8	815.0	815.3	814.3	805.2
18°	731.0	738.3	738.3	736.6	725.8
19°	654.0	659.6	663.4	659.6	647.0
20°	584.7	588.5	595.5	585.7	571.8
21°	518.1	521.6	527.5	516.0	500.7
22°	454.4	458.9	464.5	451.2	435.2
23°	394.8	405.2	407.3	389.2	375.6
24°	340.1	351.9	355.4	336.9	322.6
25°	291.3	304.5	312.5	290.9	276.7
26°	249.1	262.0	271.8	250.2	236.6
27°	212.2	225.8	235.9	215.7	202.8
28°	180.5	193.7	204.2	185.4	173.2
29°	156.8	164.5	174.9	159.2	148.1
30°	133.4	141.8	153.0	136.9	127.2
32.5°	91.6	96.2	104.9	95.1	87.5
35°	65.2	67.9	72.1	65.5	61.0
37.5°	46.3	47.7	50.2	46.3	43.9
40°	34.1	34.8	35.9	33.8	32.4
42.5°	25.4	25.8	25.8	25.1	24.4
45°	19.2	19.5	19.2	19.2	18.5
47.5°	13.9	15.0	14.6	14.6	13.6
50°	9.1	11.1	11.1	10.8	9.1
52.5°	5.6	7.7	8.7	7.7	5.9
55°	4.2	5.2	6.6	5.2	4.5
57.5°	4.2	4.2	4.9	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.5	3.8	3.8
72.5°	3.5	3.5	3.1	3.5	3.1
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.0	1.0	1.0	1.4	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°	4.2	4.2	4.2	4.2	4.2
65°	3.8	4.2	3.8	4.2	3.8



(END OF REPORT)