

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: P283577

Luminaire Tested: **LDA2B109024D010 EU2B10FL409024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283577
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.8 lumens
Efficiency: N/A
Efficacy: 64.5 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

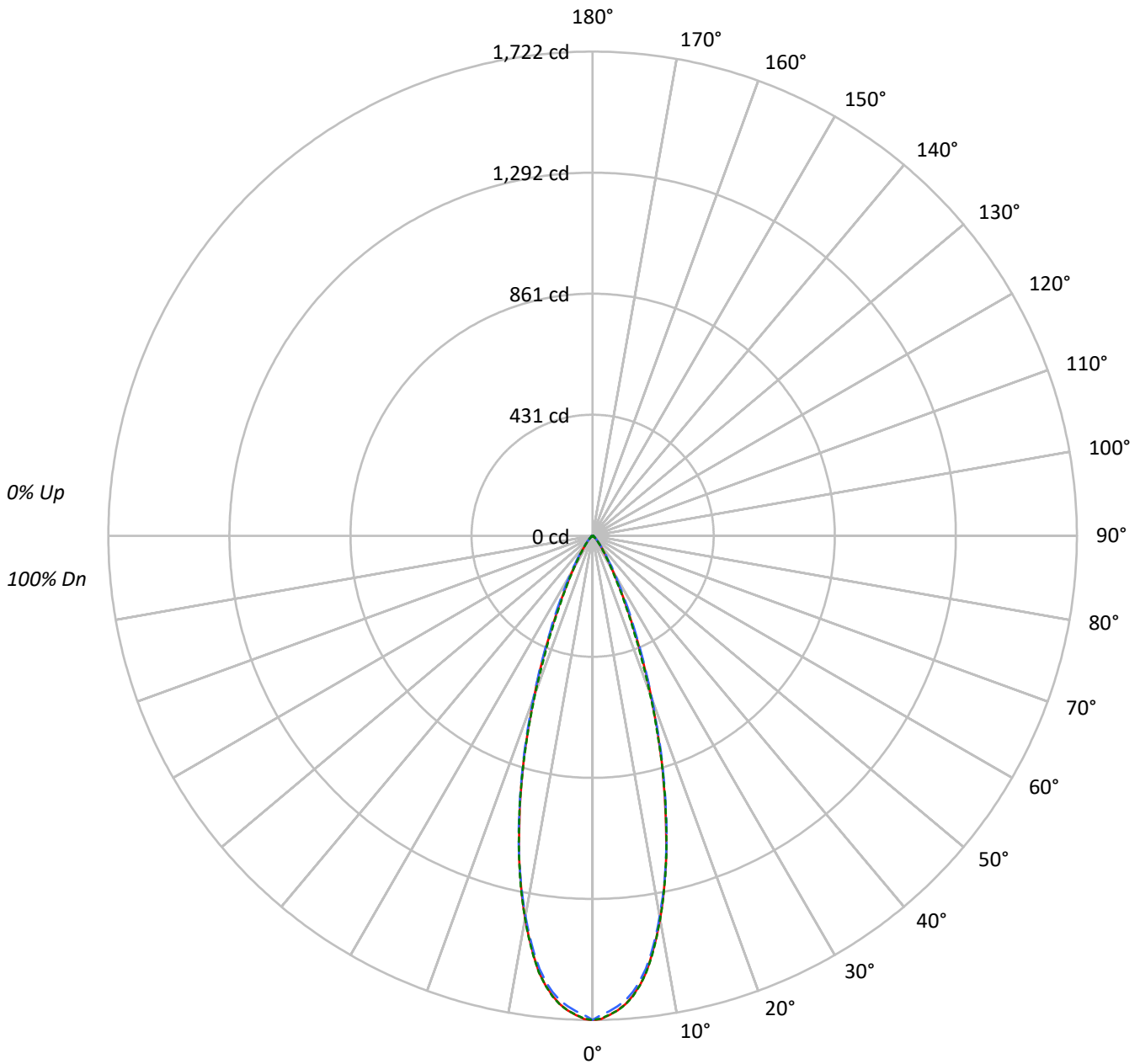
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	849569	849569	849569
5°	813046	806954	814284
10°	692695	688336	693396
15°	510561	513881	512196
20°	318690	324623	311707
25°	164616	176646	156341
30°	78958	90466	75198
35°	40775	45111	38125
40°	22863	24023	21640
45°	13885	13885	13396
50°	7215	8903	7215
55°	3699	5935	4043
60°	4243	4243	4243
65°	4670	4670	4670
70°	5770	5193	5770
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	23.0
10°-20°	272.1	42.2
20°-30°	147.5	22.9
30°-40°	47.3	7.3
40°-50°	16.1	2.5
50°-60°	5.6	0.9
60°-70°	4.1	0.6
70°-80°	3.0	0.5
80°-90°	0.9	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°	567.7	88.0
0°-40°	615.0	95.4
0°-60°	636.8	98.8
0°-90°	644.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1642	1632	1629	1646	1644	148
15°	1000	1008	1006	1011	1003	271
25°	302	316	324	302	287	145
35°	68	70	75	68	63	46
45°	20	20	20	20	19	16
55°	4	5	7	5	5	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°	1722.0	1722.0	1722.0	1722.0	1722.0
1°	1719.1	1706.8	1705.0	1720.9	1717.3
2°	1705.4	1693.8	1692.0	1707.9	1704.6
3°	1690.2	1679.7	1676.1	1692.7	1690.5
4°	1669.9	1660.1	1656.9	1673.5	1671.7
5°	1641.7	1631.6	1629.4	1645.7	1644.2
6°	1607.0	1598.6	1594.7	1610.9	1608.1
7°	1563.6	1556.0	1551.6	1563.6	1565.0
8°	1507.1	1503.5	1498.4	1510.4	1510.4
9°	1447.1	1443.8	1438.4	1449.2	1449.2
10°	1382.7	1380.5	1374.0	1384.1	1384.1
11°	1312.1	1311.0	1306.3	1314.7	1314.7
12°	1238.0	1240.5	1236.2	1243.4	1240.9
13°	1163.8	1162.7	1163.1	1168.5	1164.5
14°	1079.9	1086.4	1087.5	1090.7	1084.6
15°	999.6	1007.9	1006.1	1010.8	1002.8
16°	917.4	926.8	926.5	927.6	920.0
17°	840.7	846.2	846.5	845.4	836.0
18°	759.0	766.6	766.6	764.8	753.6
19°	679.0	684.8	688.8	684.8	671.8
20°	607.0	611.0	618.3	608.1	593.7
21°	537.9	541.6	547.7	535.8	519.9
22°	471.7	476.4	482.2	468.5	451.8
23°	409.9	420.7	422.9	404.1	390.0
24°	353.1	365.4	369.0	349.8	335.0
25°	302.4	316.2	324.5	302.1	287.2
26°	258.7	272.0	282.2	259.7	245.6
27°	220.3	234.4	244.9	223.9	210.5
28°	187.4	201.1	212.0	192.5	179.8
29°	162.8	170.8	181.6	165.3	153.8
30°	138.6	147.2	158.8	142.2	132.0
32.5°	95.1	99.8	108.9	98.8	90.8
35°	67.7	70.5	74.9	68.0	63.3
37.5°	48.1	49.6	52.1	48.1	45.6
40°	35.5	36.2	37.3	35.1	33.6
42.5°	26.4	26.8	26.8	26.0	25.3
45°	19.9	20.3	19.9	19.9	19.2
47.5°	14.5	15.6	15.2	15.2	14.1
50°	9.4	11.6	11.6	11.2	9.4
52.5°	5.8	8.0	9.0	8.0	6.2
55°	4.3	5.4	6.9	5.4	4.7
57.5°	4.3	4.3	5.1	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.6	4.0	4.0
72.5°	3.6	3.6	3.3	3.6	3.3
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.4	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.3	4.3	4.3	4.3	4.3
65°	4.0	4.3	4.0	4.3	4.0



(END OF REPORT)