

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: P283955

Luminaire Tested: **LDA2B109730D010 EU2B10WFL559730 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109730D010 EU2B10WFL559730 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.5 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

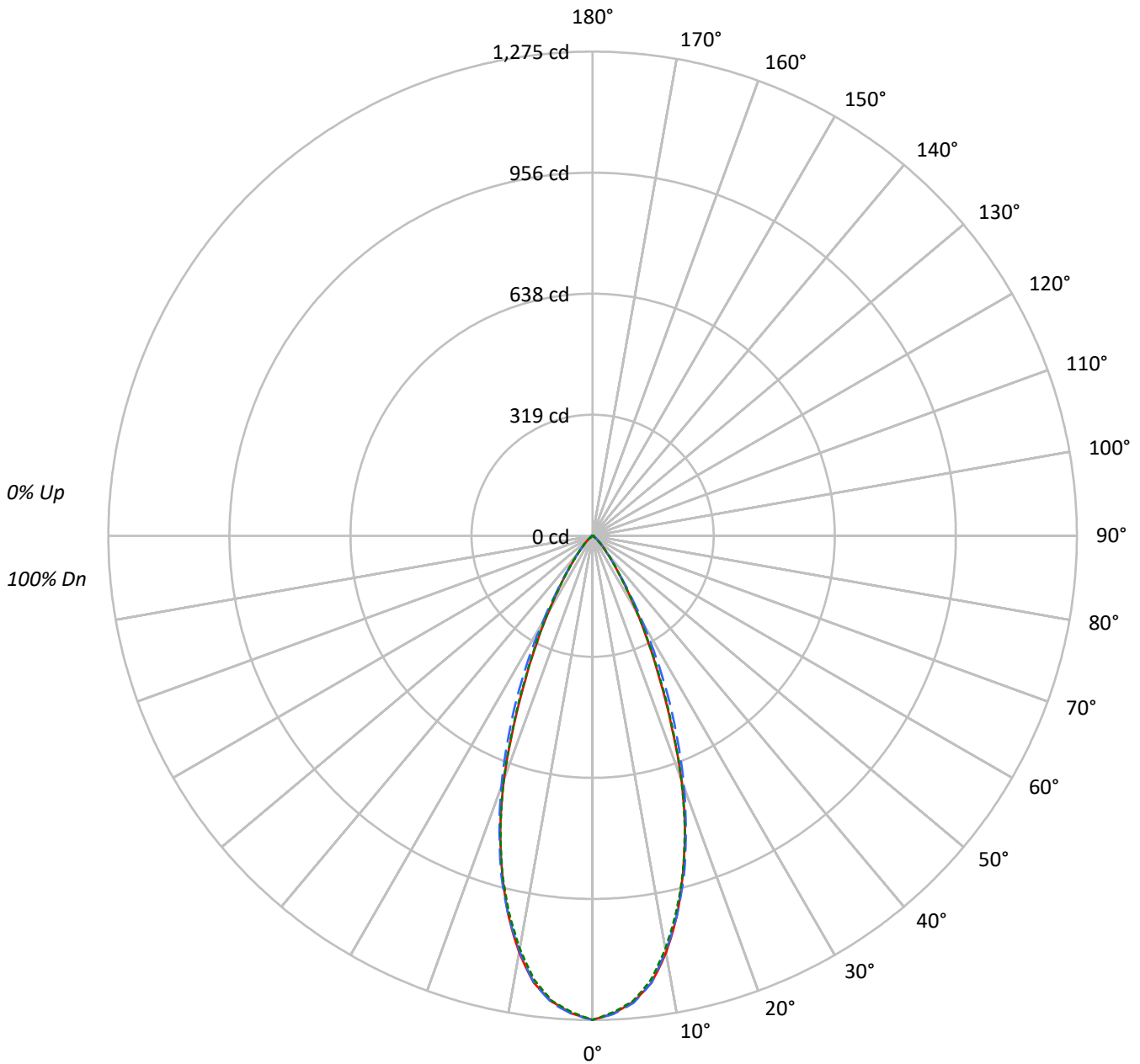
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	628938	628938	628938
5°	610044	611530	608757
10°	558384	556180	552823
15°	469700	474042	468934
20°	359169	368725	358592
25°	228089	257158	232553
30°	132680	149770	134958
35°	70106	74563	70347
40°	37032	38707	37032
45°	20722	21490	20932
50°	9671	12204	9671
55°	3527	6709	3785
60°	4046	4046	4046
65°	4319	4786	4319
70°	5337	4760	5337
75°	4956	4956	4956
80°	5398	4262	5398
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	16.5
10°-20°	253.4	36.6
20°-30°	204.6	29.6
30°-40°	80.9	11.7
40°-50°	24.8	3.6
50°-60°	6.4	0.9
60°-70°	3.9	0.6
70°-80°	2.8	0.4
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°	571.8	82.7
0°-40°	652.7	94.4
0°-60°	683.9	98.9
0°-90°	691.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1232	1234	1235	1232	1229	114
15°	920	922	928	924	918	253
25°	419	439	472	447	427	195
35°	116	120	124	120	117	78
45°	30	30	31	30	30	24
55°	4	6	8	6	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°	1274.8	1274.8	1274.8	1274.8	1274.8
2.5°	1258.9	1259.6	1260.7	1259.2	1255.5
5°	1231.8	1234.0	1234.8	1232.2	1229.2
7.5°	1187.3	1184.7	1186.9	1182.5	1178.8
10°	1114.6	1111.3	1110.2	1103.5	1103.5
12.5°	1024.9	1023.8	1024.5	1021.2	1016.0
15°	919.6	922.2	928.1	924.4	918.1
17.5°	808.0	811.7	816.9	815.8	807.2
20°	684.1	694.9	702.3	695.3	683.0
22.5°	543.2	566.2	585.1	570.3	550.3
25°	419.0	439.0	472.4	447.2	427.2
27.5°	317.8	332.2	362.6	337.8	324.1
30°	232.9	241.8	262.9	246.6	236.9
32.5°	166.5	172.8	181.7	172.1	167.2
35°	116.4	119.8	123.8	120.1	116.8
37.5°	81.9	83.1	86.0	83.1	81.6
40°	57.5	57.8	60.1	58.2	57.5
42.5°	41.5	41.5	42.6	41.9	41.5
45°	29.7	30.0	30.8	30.4	30.0
47.5°	21.1	21.9	21.9	22.2	20.8
50°	12.6	15.6	15.9	15.6	12.6
52.5°	6.7	9.3	11.5	9.3	6.7
55°	4.1	5.6	7.8	5.6	4.4
57.5°	4.1	4.1	5.2	4.4	4.1
60°	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.7	4.1	4.1	4.1	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.3	3.7	3.7
72.5°	3.3	3.3	3.0	3.3	3.3
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.1	1.1	1.1	1.1	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°







(END OF REPORT)