

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: P283748

Luminaire Tested: **LDA2B209027D010 EU2B20FL409027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283748
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: LDA2B209027D010 EU2B20FL409027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1362.6 lumens
Efficiency: N/A
Efficacy: 66.1 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

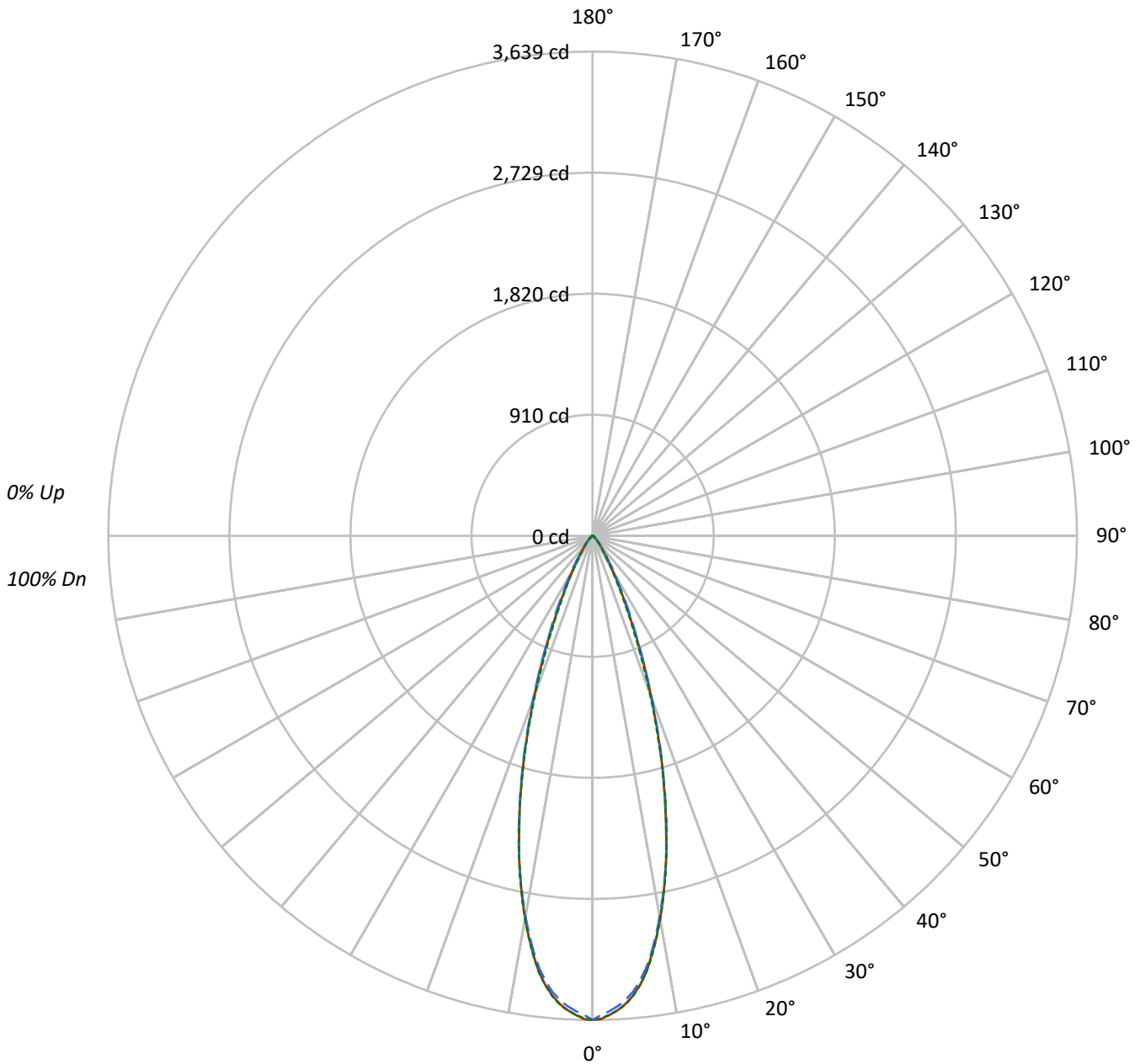
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1795294	1795294	1795294
5°	1718109	1705232	1720783
10°	1463742	1454574	1465295
15°	1078890	1085888	1082364
20°	673502	685945	658643
25°	347903	373271	330429
30°	166804	191186	158942
35°	86127	95281	80586
40°	48238	50686	45791
45°	29304	29304	28258
50°	15274	18805	15274
55°	7913	12472	8515
60°	9078	9078	9078
65°	9806	9806	9806
70°	12117	10963	12117
75°	11628	11628	11628
80°	10796	10796	10796
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	23.0
10°-20°	574.9	42.2
20°-30°	311.7	22.9
30°-40°	100.1	7.3
40°-50°	34.1	2.5
50°-60°	12.0	0.9
60°-70°	8.7	0.6
70°-80°	6.3	0.5
80°-90°	1.8	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°	1199.6	88.0
0°-40°	1299.7	95.4
0°-60°	1345.7	98.8
0°-90°	1362.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1362.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3639	3639	3639	3639	3639	
5°	3469	3448	3443	3478	3475	314
15°	2112	2130	2126	2136	2119	573
25°	639	668	686	638	607	306
35°	143	149	158	144	134	96
45°	42	43	42	42	40	33
55°	9	12	14	12	10	10
65°	8	9	8	9	8	9
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3638.9	3638.9	3638.9	3638.9	3638.9
1°	3632.8	3606.8	3603.0	3636.6	3629.0
2°	3603.8	3579.3	3575.5	3609.1	3602.2
3°	3571.6	3549.5	3541.8	3577.0	3572.4
4°	3528.8	3508.2	3501.3	3536.5	3532.7
5°	3469.2	3447.8	3443.2	3477.6	3474.6
6°	3395.8	3378.2	3369.8	3404.2	3398.1
7°	3304.1	3288.0	3278.8	3304.1	3307.1
8°	3184.8	3177.2	3166.5	3191.7	3191.7
9°	3057.9	3051.0	3039.6	3062.5	3062.5
10°	2921.8	2917.2	2903.5	2924.9	2924.9
11°	2772.8	2770.5	2760.5	2778.1	2778.1
12°	2616.0	2621.4	2612.2	2627.5	2622.2
13°	2459.3	2457.0	2457.8	2469.3	2460.9
14°	2282.0	2295.7	2298.0	2304.9	2291.9
15°	2112.3	2129.8	2126.0	2136.0	2119.1
16°	1938.7	1958.6	1957.8	1960.1	1944.1
17°	1776.6	1788.1	1788.9	1786.6	1766.7
18°	1603.9	1619.9	1619.9	1616.1	1592.4
19°	1434.9	1447.2	1455.6	1447.2	1419.6
20°	1282.8	1291.2	1306.5	1285.1	1254.5
21°	1136.8	1144.4	1157.4	1132.2	1098.6
22°	996.9	1006.8	1019.0	990.0	954.8
23°	866.2	889.1	893.7	853.9	824.1
24°	746.1	772.1	779.8	739.3	707.9
25°	639.1	668.2	685.7	638.3	607.0
26°	546.6	574.9	596.3	548.9	519.1
27°	465.6	495.4	517.6	473.2	444.9
28°	396.0	425.0	448.0	406.7	379.9
29°	344.0	360.8	383.8	349.4	324.9
30°	292.8	311.1	335.6	300.4	279.0
32.5°	201.1	211.0	230.1	208.7	191.9
35°	143.0	149.1	158.2	143.7	133.8
37.5°	101.7	104.7	110.1	101.7	96.3
40°	74.9	76.4	78.7	74.2	71.1
42.5°	55.8	56.6	56.6	55.0	53.5
45°	42.0	42.8	42.0	42.0	40.5
47.5°	30.6	32.9	32.1	32.1	29.8
50°	19.9	24.5	24.5	23.7	19.9
52.5°	12.2	16.8	19.1	16.8	13.0
55°	9.2	11.5	14.5	11.5	9.9
57.5°	9.2	9.2	10.7	9.2	9.2
60°	9.2	9.2	9.2	9.2	9.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.4	8.4	8.4	8.4	8.4
70°	8.4	8.4	7.6	8.4	8.4
72.5°	7.6	7.6	6.9	7.6	6.9
75°	6.1	6.1	6.1	6.1	6.1
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.8	3.8	3.8	3.8	3.8
82.5°	2.3	2.3	2.3	3.1	2.3
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	9.2	9.2	9.2	9.2	9.2
65°	8.4	9.2	8.4	9.2	8.4



(END OF REPORT)