

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: P283788

Luminaire Tested: **LDA2B209730D010 EU2B20FL409730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283788
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: LDA2B209730D010 EU2B20FL409730 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 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: 1186.2 lumens
Efficiency: N/A
Efficacy: 57.6 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

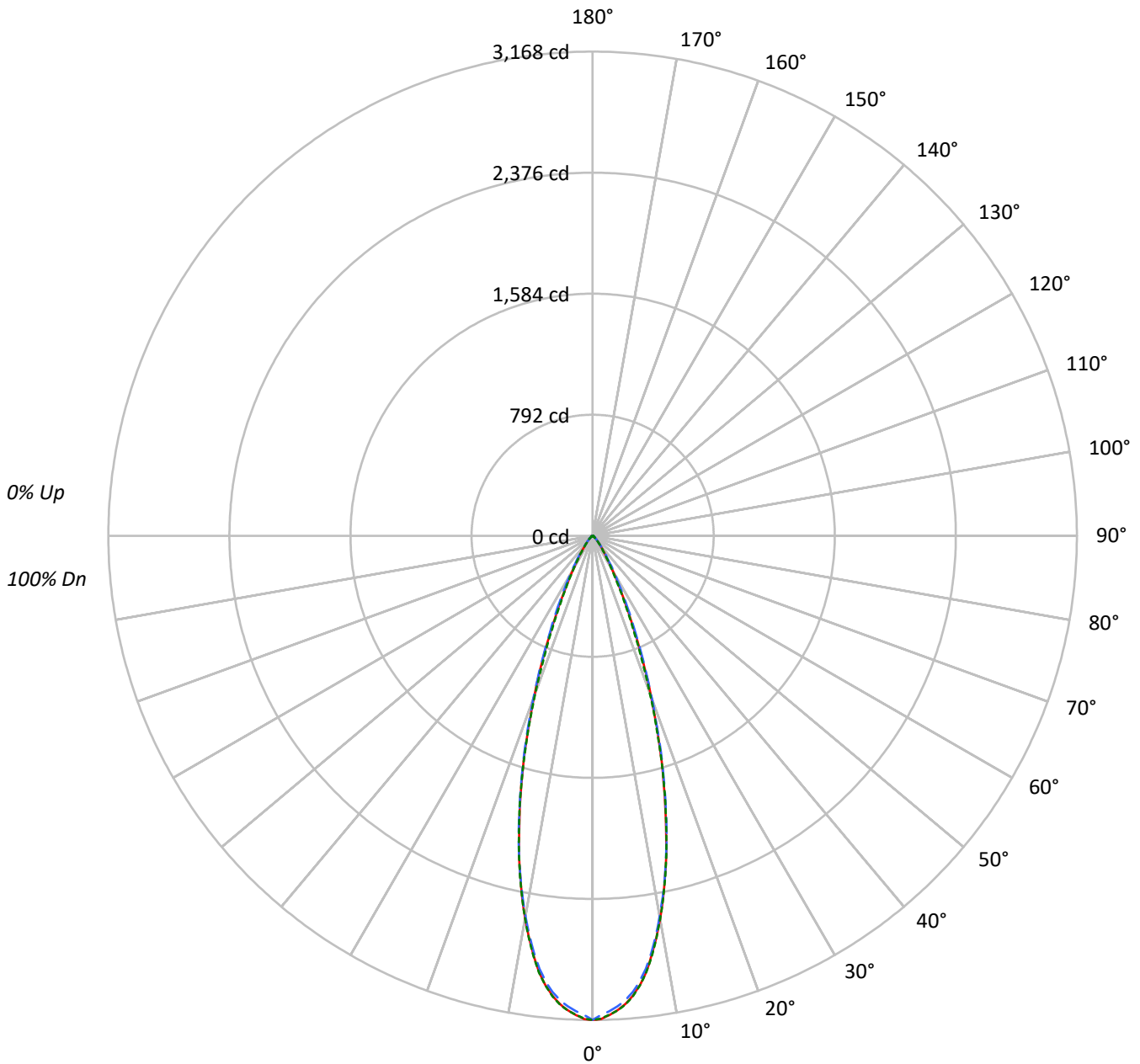
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1562921	1562921	1562921
5°	1495743	1484501	1498021
10°	1274324	1266309	1275627
15°	939247	945325	942261
20°	586348	597163	573379
25°	302884	324986	287642
30°	145213	166462	138377
35°	74984	82995	70166
40°	41991	44117	39866
45°	25537	25537	24629
50°	13278	16348	13278
55°	6881	10838	7483
60°	7894	7894	7894
65°	8522	8522	8522
70°	10530	9665	10530
75°	10103	10103	10103
80°	9376	9376	9376
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	23.0
10°-20°	500.5	42.2
20°-30°	271.4	22.9
30°-40°	87.1	7.3
40°-50°	29.7	2.5
50°-60°	10.4	0.9
60°-70°	7.6	0.6
70°-80°	5.5	0.5
80°-90°	1.6	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°	1044.4	88.0
0°-40°	1131.5	95.4
0°-60°	1171.6	98.8
0°-90°	1186.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3168	3168	3168	3168	3168	
5°	3020	3002	2998	3028	3025	273
15°	1839	1854	1851	1860	1845	499
25°	556	582	597	556	528	267
35°	124	130	138	125	116	84
45°	37	37	37	37	35	29
55°	8	10	13	10	9	9
65°	7	8	7	8	7	8
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3167.9	3167.9	3167.9	3167.9	3167.9
1°	3162.6	3140.0	3136.6	3165.9	3159.3
2°	3137.3	3116.0	3112.7	3142.0	3136.0
3°	3109.4	3090.1	3083.4	3114.0	3110.0
4°	3072.1	3054.1	3048.1	3078.7	3075.4
5°	3020.2	3001.5	2997.5	3027.5	3024.8
6°	2956.3	2941.0	2933.7	2963.6	2958.3
7°	2876.4	2862.4	2854.5	2876.4	2879.1
8°	2772.6	2765.9	2756.6	2778.6	2778.6
9°	2662.1	2656.1	2646.1	2666.1	2666.1
10°	2543.7	2539.7	2527.7	2546.3	2546.3
11°	2413.9	2411.9	2403.2	2418.5	2418.5
12°	2277.4	2282.1	2274.1	2287.4	2282.8
13°	2141.0	2139.0	2139.7	2149.7	2142.3
14°	1986.6	1998.6	2000.6	2006.6	1995.3
15°	1838.9	1854.2	1850.8	1859.5	1844.8
16°	1687.8	1705.1	1704.4	1706.4	1692.4
17°	1546.7	1556.7	1557.3	1555.3	1538.0
18°	1396.3	1410.3	1410.3	1406.9	1386.3
19°	1249.2	1259.8	1267.2	1259.8	1235.9
20°	1116.8	1124.1	1137.4	1118.8	1092.1
21°	989.6	996.3	1007.6	985.6	956.4
22°	867.8	876.5	887.2	861.9	831.2
23°	754.0	774.0	778.0	743.4	717.4
24°	649.6	672.2	678.8	643.6	616.3
25°	556.4	581.7	597.0	555.7	528.4
26°	475.9	500.5	519.1	477.8	451.9
27°	405.3	431.3	450.6	412.0	387.3
28°	344.7	370.0	390.0	354.1	330.8
29°	299.5	314.1	334.1	304.1	282.8
30°	254.9	270.9	292.2	261.6	242.9
32.5°	175.0	183.7	200.3	181.7	167.0
35°	124.5	129.8	137.8	125.1	116.5
37.5°	88.5	91.2	95.8	88.5	83.9
40°	65.2	66.6	68.5	64.6	61.9
42.5°	48.6	49.2	49.2	47.9	46.6
45°	36.6	37.3	36.6	36.6	35.3
47.5°	26.6	28.6	28.0	28.0	26.0
50°	17.3	21.3	21.3	20.6	17.3
52.5°	10.6	14.6	16.6	14.6	11.3
55°	8.0	10.0	12.6	10.0	8.7
57.5°	8.0	8.0	9.3	8.0	8.0
60°	8.0	8.0	8.0	8.0	8.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.3	7.3	7.3	7.3	7.3
70°	7.3	7.3	6.7	7.3	7.3
72.5°	6.7	6.7	6.0	6.7	6.0
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.3	3.3	3.3	3.3	3.3
82.5°	2.0	2.0	2.0	2.7	2.0
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.0	8.0	8.0	8.0	8.0
65°	7.3	8.0	7.3	8.0	7.3



(END OF REPORT)