

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: P284122

Luminaire Tested: **LDA2B209730D010 EU2B20WFL559730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284122  
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: LDA2B209730D010 EU2B20WFL559730 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1352.5 lumens  
Efficiency: N/A  
Efficacy: 65.7 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

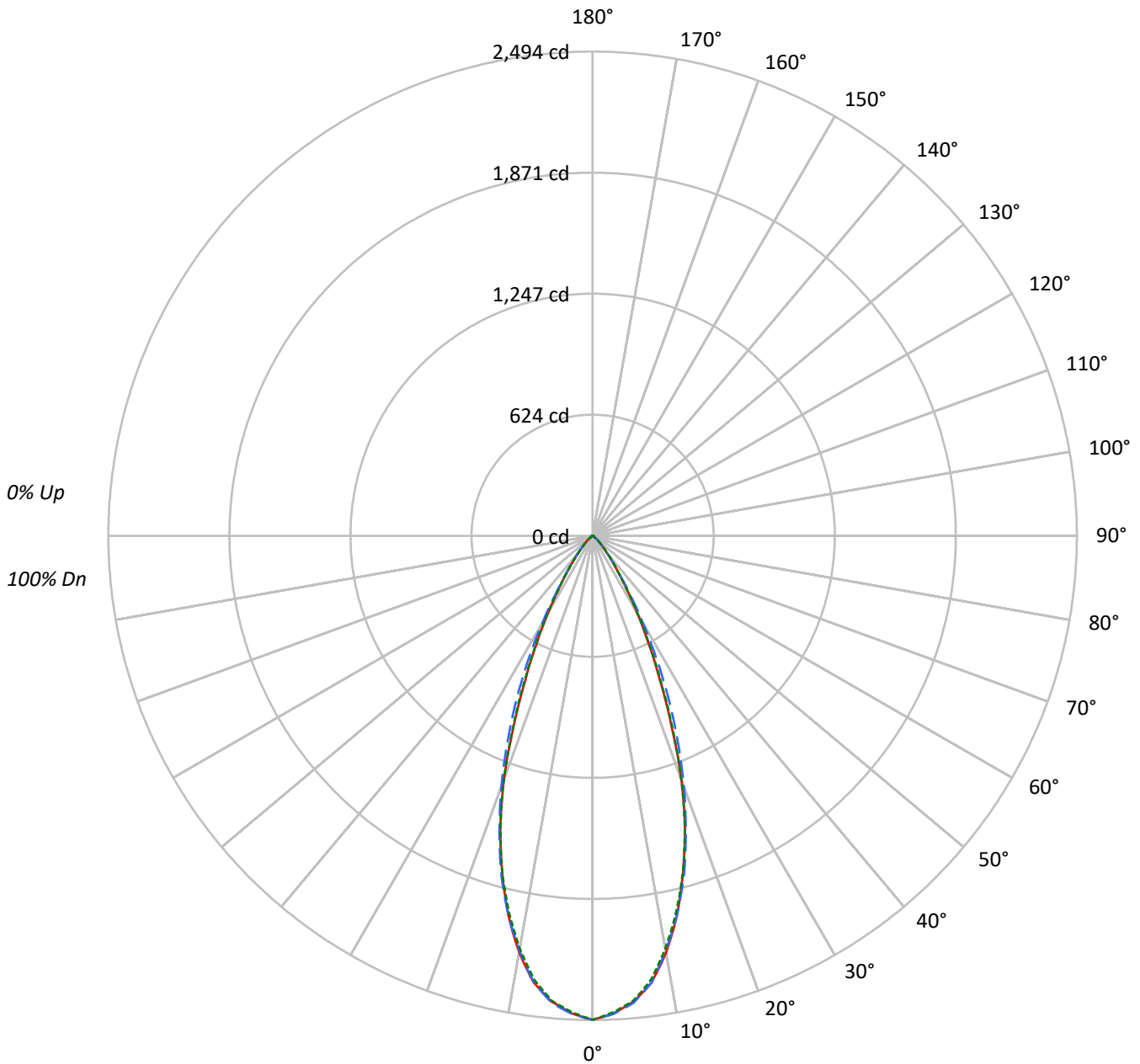
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1230198	1230198	1230198
5°	1193247	1196119	1190721
10°	1092221	1087862	1081299
15°	918714	927244	917233
20°	702535	721226	701433
25°	446161	502993	454817
30°	259492	292932	264049
35°	137140	145873	137622
40°	72390	75674	72390
45°	40468	42003	40956
50°	18958	23947	18958
55°	6881	13074	7483
60°	7894	7894	7894
65°	8522	9339	8522
70°	10530	9376	10530
75°	9722	9722	9722
80°	10228	8239	10228
85°	8491	8491	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.6	16.5
10°-20°	495.6	36.6
20°-30°	400.2	29.6
30°-40°	158.2	11.7
40°-50°	48.6	3.6
50°-60°	12.5	0.9
60°-70°	7.6	0.6
70°-80°	5.6	0.4
80°-90°	1.7	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°	1118.4	82.7
0°-40°	1276.6	94.4
0°-60°	1337.7	98.9
0°-90°	1352.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1352.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2409	2414	2415	2410	2404	223
15°	1799	1804	1815	1808	1796	494
25°	820	859	924	875	836	382
35°	228	234	242	235	228	153
45°	58	59	60	60	59	47
55°	8	11	15	11	9	10
65°	7	8	8	8	7	8
75°	5	5	5	5	5	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°	2493.5	2493.5	2493.5	2493.5	2493.5
2.5°	2462.3	2463.8	2465.9	2463.0	2455.8
5°	2409.4	2413.7	2415.2	2410.1	2404.3
7.5°	2322.3	2317.3	2321.6	2312.9	2305.7
10°	2180.2	2173.7	2171.5	2158.4	2158.4
12.5°	2004.7	2002.5	2003.9	1997.4	1987.3
15°	1798.7	1803.8	1815.4	1808.1	1795.8
17.5°	1580.4	1587.6	1597.8	1595.6	1578.9
20°	1338.1	1359.2	1373.7	1359.9	1336.0
22.5°	1062.5	1107.5	1144.5	1115.5	1076.3
25°	819.6	858.7	924.0	874.7	835.5
27.5°	621.6	649.8	709.3	660.7	633.9
30°	455.5	472.9	514.2	482.3	463.5
32.5°	325.7	338.0	355.4	336.5	327.1
35°	227.7	234.3	242.2	235.0	228.5
37.5°	160.3	162.5	168.3	162.5	159.6
40°	112.4	113.1	117.5	113.9	112.4
42.5°	81.2	81.2	83.4	82.0	81.2
45°	58.0	58.7	60.2	59.5	58.7
47.5°	41.3	42.8	42.8	43.5	40.6
50°	24.7	30.5	31.2	30.5	24.7
52.5°	13.1	18.1	22.5	18.1	13.1
55°	8.0	10.9	15.2	10.9	8.7
57.5°	8.0	8.0	10.2	8.7	8.0
60°	8.0	8.0	8.0	8.0	8.0
62.5°	8.0	8.0	8.0	8.0	8.0
65°	7.3	8.0	8.0	8.0	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	7.3	7.3	6.5	7.3	7.3
72.5°	6.5	6.5	5.8	6.5	6.5
75°	5.1	5.1	5.1	5.1	5.1
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.6	3.6	2.9	3.6	3.6
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.5	1.5	1.5	1.5	1.5
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°







(END OF REPORT)