

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: P284115

Luminaire Tested: **LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284115  
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: LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1246.7 lumens  
Efficiency: N/A  
Efficacy: 60.5 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

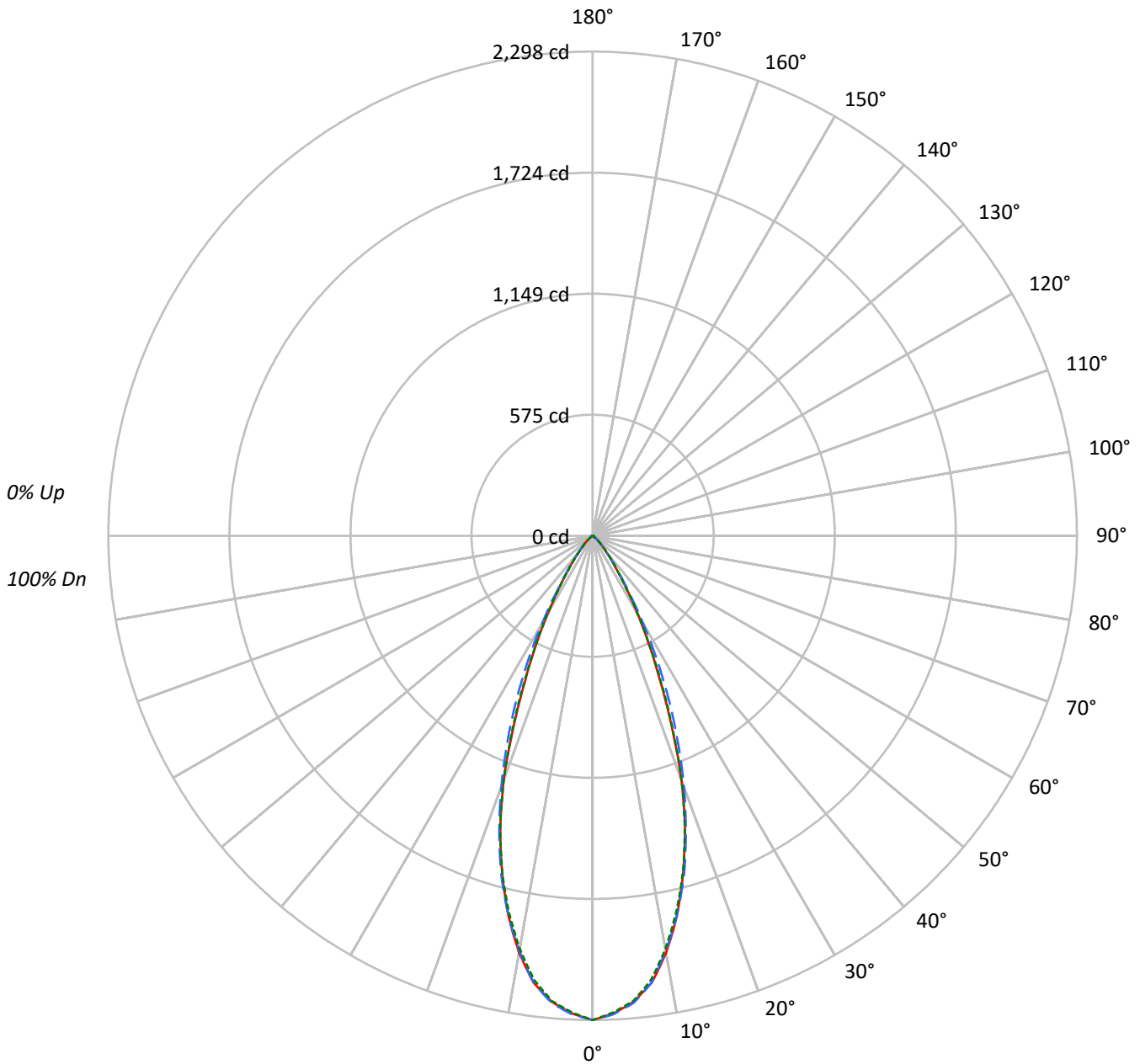
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P284115

CATALOG NUMBER: LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P284115

CATALOG NUMBER: LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MB

**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°	1133992	1133992	1133992
5°	1099893	1102567	1097614
10°	1006805	1002747	996735
15°	846850	854715	845470
20°	647618	664786	646568
25°	411267	463635	419270
30°	239211	270031	243369
35°	126419	134490	126841
40°	66722	69749	66722
45°	37328	38723	37816
50°	17423	22028	17423
55°	6365	12042	6881
60°	7302	7302	7302
65°	7822	8639	7822
70°	9665	8655	9665
75°	8959	8959	8959
80°	9376	7671	9376
85°	7359	7359	7359



TEST NUMBER: P284115

CATALOG NUMBER: LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	16.5
10°-20°	456.8	36.6
20°-30°	368.9	29.6
30°-40°	145.8	11.7
40°-50°	44.8	3.6
50°-60°	11.5	0.9
60°-70°	7.0	0.6
70°-80°	5.1	0.4
80°-90°	1.5	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°	1030.9	82.7
0°-40°	1176.8	94.4
0°-60°	1233.1	98.9
0°-90°	1246.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1246.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2221	2225	2226	2222	2216	206
15°	1658	1663	1673	1667	1655	455
25°	756	792	852	806	770	352
35°	210	216	223	217	211	141
45°	54	54	56	55	54	44
55°	7	10	14	10	8	9
65°	7	7	7	7	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P284115

CATALOG NUMBER: LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2298.5	2298.5	2298.5	2298.5	2298.5
2.5°	2269.7	2271.1	2273.1	2270.4	2263.7
5°	2220.9	2224.9	2226.3	2221.6	2216.3
7.5°	2140.7	2136.0	2140.0	2132.0	2125.3
10°	2009.7	2003.7	2001.6	1989.6	1989.6
12.5°	1847.9	1845.9	1847.2	1841.2	1831.8
15°	1658.0	1662.7	1673.4	1666.7	1655.3
17.5°	1456.8	1463.5	1472.8	1470.8	1455.4
20°	1233.5	1252.9	1266.2	1253.5	1231.5
22.5°	979.4	1020.9	1055.0	1028.2	992.1
25°	755.5	791.6	851.7	806.3	770.2
27.5°	572.9	599.0	653.8	609.1	584.3
30°	419.9	435.9	474.0	444.6	427.2
32.5°	300.2	311.5	327.6	310.2	301.5
35°	209.9	215.9	223.3	216.6	210.6
37.5°	147.8	149.8	155.1	149.8	147.1
40°	103.6	104.3	108.3	105.0	103.6
42.5°	74.9	74.9	76.9	75.5	74.9
45°	53.5	54.2	55.5	54.8	54.2
47.5°	38.1	39.4	39.4	40.1	37.4
50°	22.7	28.1	28.7	28.1	22.7
52.5°	12.0	16.7	20.7	16.7	12.0
55°	7.4	10.0	14.0	10.0	8.0
57.5°	7.4	7.4	9.4	8.0	7.4
60°	7.4	7.4	7.4	7.4	7.4
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.7	7.4	7.4	7.4	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.0	6.7	6.7
72.5°	6.0	6.0	5.3	6.0	6.0
75°	4.7	4.7	4.7	4.7	4.7
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.3	3.3	2.7	3.3	3.3
82.5°	2.0	2.0	2.0	2.0	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



Report Generated By E9808895 / USPTCWHP6082093







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







(END OF REPORT)