

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: P284121

Luminaire Tested: **LDA2B209730D010 EU2B20WFL559730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284121  
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 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: 1326.8 lumens  
Efficiency: N/A  
Efficacy: 64.4 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

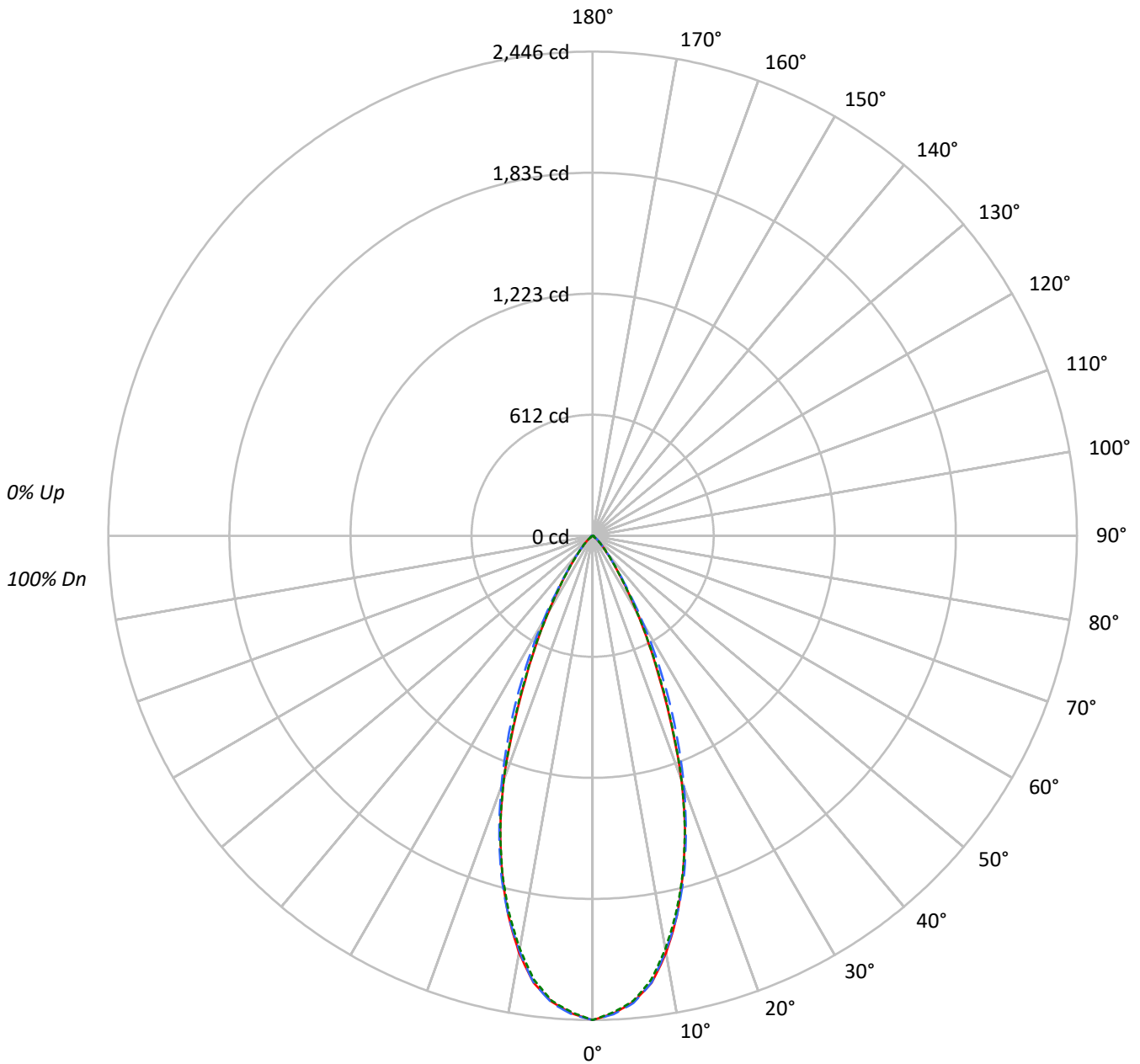
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1206911	1206911	1206911
5°	1170614	1173437	1168138
10°	1071530	1067222	1060810
15°	901297	909674	899867
20°	689252	707523	688097
25°	437669	493466	446216
30°	254535	287406	259036
35°	134550	143163	134972
40°	71037	74258	71037
45°	39700	41235	40189
50°	18574	23487	18574
55°	6709	12816	7311
60°	7696	7696	7696
65°	8288	9106	8288
70°	10242	9232	10242
75°	9531	9531	9531
80°	10228	7955	10228
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.4	16.5
10°-20°	486.2	36.6
20°-30°	392.7	29.6
30°-40°	155.2	11.7
40°-50°	47.7	3.6
50°-60°	12.3	0.9
60°-70°	7.4	0.6
70°-80°	5.5	0.4
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°	1097.2	82.7
0°-40°	1252.4	94.4
0°-60°	1312.3	98.9
0°-90°	1326.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2446	2446	2446	2446	2446	
5°	2364	2368	2369	2364	2359	219
15°	1765	1770	1781	1774	1762	485
25°	804	842	906	858	820	374
35°	223	230	238	230	224	150
45°	57	58	59	58	58	46
55°	8	11	15	11	8	10
65°	7	8	8	8	7	7
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°	2446.3	2446.3	2446.3	2446.3	2446.3
2.5°	2415.7	2417.1	2419.2	2416.4	2409.3
5°	2363.7	2368.0	2369.4	2364.4	2358.7
7.5°	2278.3	2273.4	2277.6	2269.1	2262.0
10°	2138.9	2132.5	2130.3	2117.5	2117.5
12.5°	1966.7	1964.5	1966.0	1959.6	1949.6
15°	1764.6	1769.6	1781.0	1773.9	1761.8
17.5°	1550.4	1557.6	1567.5	1565.4	1549.0
20°	1312.8	1333.4	1347.6	1334.1	1310.6
22.5°	1042.4	1086.5	1122.8	1094.3	1055.9
25°	804.0	842.5	906.5	858.1	819.7
27.5°	609.8	637.5	695.9	648.2	621.9
30°	446.8	463.9	504.5	473.2	454.7
32.5°	319.5	331.6	348.7	330.2	320.9
35°	223.4	229.8	237.7	230.5	224.1
37.5°	157.2	159.4	165.1	159.4	156.5
40°	110.3	111.0	115.3	111.7	110.3
42.5°	79.7	79.7	81.8	80.4	79.7
45°	56.9	57.6	59.1	58.3	57.6
47.5°	40.6	42.0	42.0	42.7	39.8
50°	24.2	29.9	30.6	29.9	24.2
52.5°	12.8	17.8	22.1	17.8	12.8
55°	7.8	10.7	14.9	10.7	8.5
57.5°	7.8	7.8	10.0	8.5	7.8
60°	7.8	7.8	7.8	7.8	7.8
62.5°	7.8	7.8	7.8	7.8	7.8
65°	7.1	7.8	7.8	7.8	7.1
67.5°	7.1	7.1	7.1	7.1	7.1
70°	7.1	7.1	6.4	7.1	7.1
72.5°	6.4	6.4	5.7	6.4	6.4
75°	5.0	5.0	5.0	5.0	5.0
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	2.8	3.6	3.6
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.4	1.4	1.4	1.4	1.4
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)