

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: P284091

Luminaire Tested: **LDA2B209030D010 EU2B20WFL559030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284091  
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: LDA2B209030D010 EU2B20WFL559030 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: 1445.6 lumens  
Efficiency: N/A  
Efficacy: 70.2 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

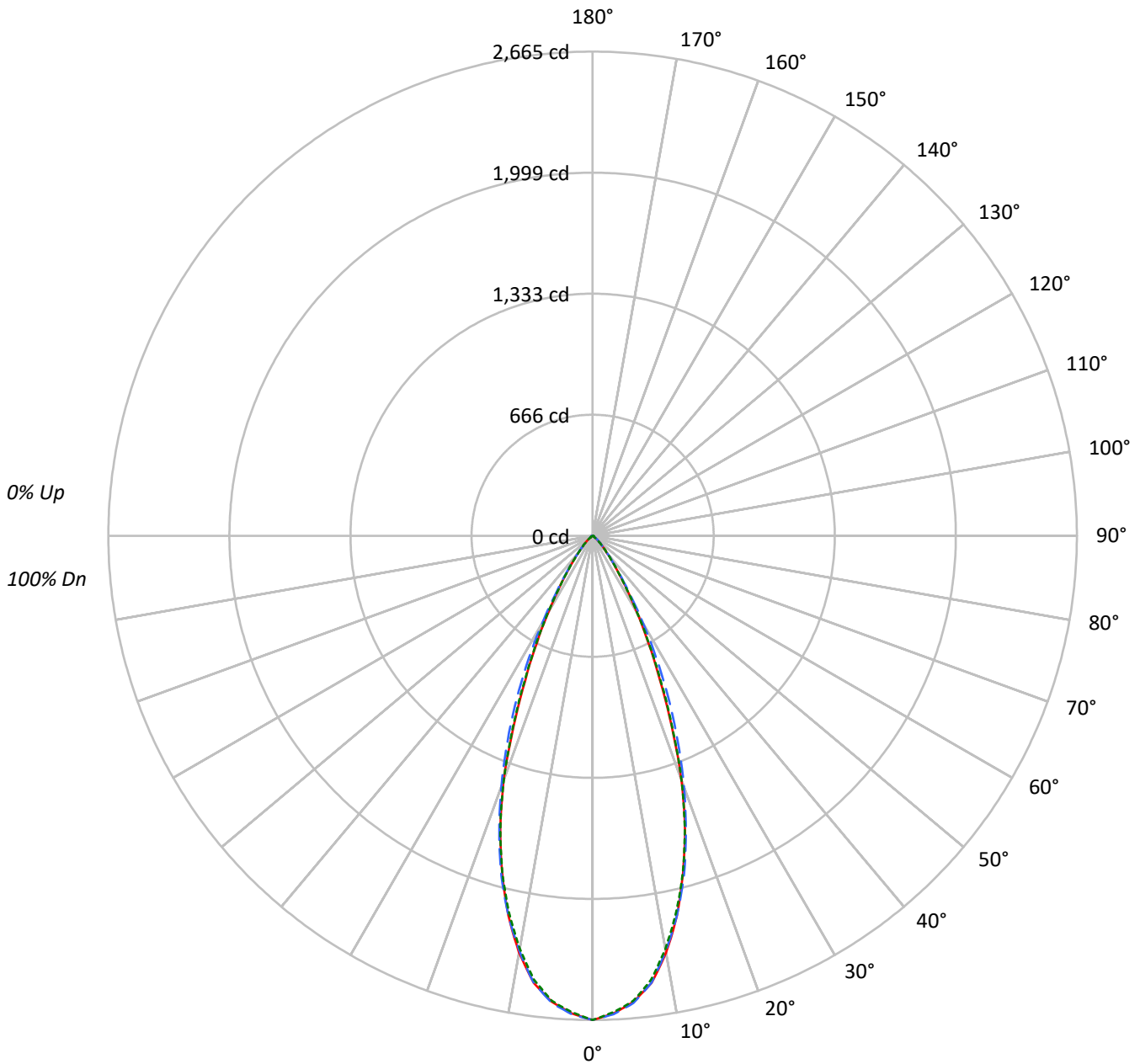
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	1314859	1314859	1314859
5°	1275358	1278429	1272684
10°	1167367	1162708	1155744
15°	981947	991039	980364
20°	750890	770841	749683
25°	476863	537614	486118
30°	277323	313099	282165
35°	146596	155931	147078
40°	77413	80891	77413
45°	43259	44863	43817
50°	20263	25559	20263
55°	7311	14020	7999
60°	8387	8387	8387
65°	9106	9923	9106
70°	11251	10097	11251
75°	10293	10293	10293
80°	11081	8808	11081
85°	9057	9057	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.9	16.5
10°-20°	529.7	36.6
20°-30°	427.8	29.6
30°-40°	169.1	11.7
40°-50°	51.9	3.6
50°-60°	13.4	0.9
60°-70°	8.1	0.6
70°-80°	5.9	0.4
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°	1195.4	82.7
0°-40°	1364.4	94.4
0°-60°	1429.7	98.9
0°-90°	1445.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1445.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2665	2665	2665	2665	2665	
5°	2575	2580	2581	2576	2570	238
15°	1922	1928	1940	1933	1919	528
25°	876	918	988	935	893	408
35°	243	250	259	251	244	163
45°	62	63	64	64	63	51
55°	8	12	16	12	9	11
65°	8	8	8	8	8	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°	2665.1	2665.1	2665.1	2665.1	2665.1
2.5°	2631.8	2633.3	2635.6	2632.5	2624.8
5°	2575.2	2579.8	2581.4	2576.0	2569.8
7.5°	2482.2	2476.7	2481.4	2472.1	2464.3
10°	2330.2	2323.2	2320.9	2307.0	2307.0
12.5°	2142.6	2140.3	2141.9	2134.9	2124.0
15°	1922.5	1927.9	1940.3	1932.6	1919.4
17.5°	1689.1	1696.9	1707.7	1705.4	1687.6
20°	1430.2	1452.7	1468.2	1453.5	1427.9
22.5°	1135.7	1183.7	1223.3	1192.2	1150.4
25°	876.0	917.8	987.6	934.9	893.0
27.5°	664.3	694.6	758.1	706.2	677.5
30°	486.8	505.4	549.6	515.5	495.3
32.5°	348.1	361.2	379.8	359.7	349.6
35°	243.4	250.4	258.9	251.2	244.2
37.5°	171.3	173.6	179.8	173.6	170.5
40°	120.2	120.9	125.6	121.7	120.2
42.5°	86.8	86.8	89.1	87.6	86.8
45°	62.0	62.8	64.3	63.6	62.8
47.5°	44.2	45.7	45.7	46.5	43.4
50°	26.4	32.6	33.3	32.6	26.4
52.5°	14.0	19.4	24.0	19.4	14.0
55°	8.5	11.6	16.3	11.6	9.3
57.5°	8.5	8.5	10.9	9.3	8.5
60°	8.5	8.5	8.5	8.5	8.5
62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.8	8.5	8.5	8.5	7.8
67.5°	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.0	7.8	7.8
72.5°	7.0	7.0	6.2	7.0	7.0
75°	5.4	5.4	5.4	5.4	5.4
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.9	3.9	3.1	3.9	3.9
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.6	1.6	1.6	1.6	1.6
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°







(END OF REPORT)