

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: P284120

Luminaire Tested: **LDA2B209730D010 EU2B20WFL559730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284120  
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 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1365.7 lumens  
Efficiency: N/A  
Efficacy: 66.3 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

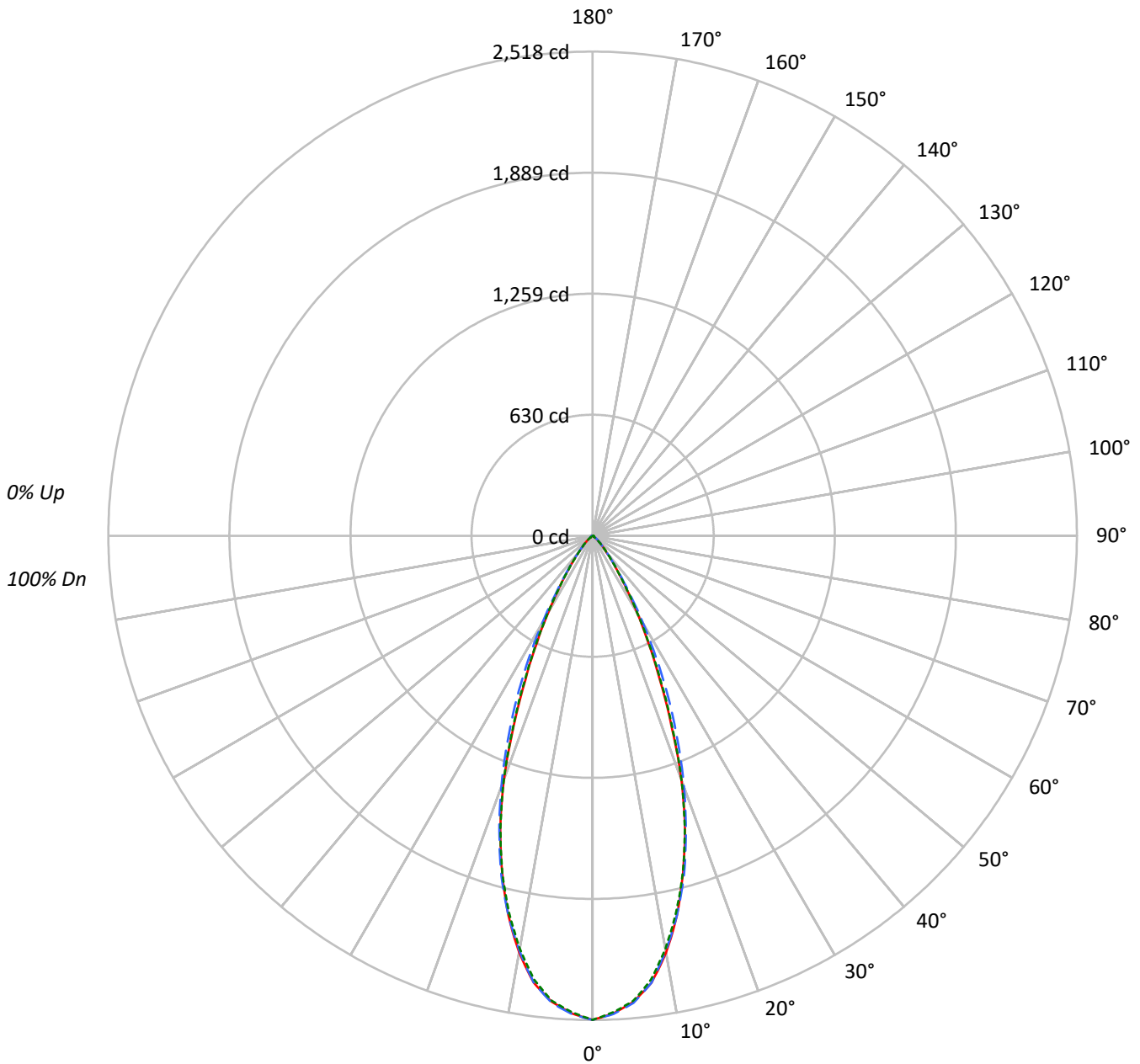
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1242186	1242186	1242186
5°	1204885	1207757	1202310
10°	1102841	1098433	1091870
15°	927653	936285	926171
20°	709413	728262	708258
25°	450516	507892	459280
30°	261998	295781	266613
35°	138525	147319	138947
40°	73098	76383	73098
45°	40886	42421	41375
50°	19112	24177	19112
55°	6967	13246	7569
60°	7992	7992	7992
65°	8522	9456	8522
70°	10530	9520	10530
75°	9722	9722	9722
80°	10512	8239	10512
85°	8491	8491	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.7	16.5
10°-20°	500.4	36.6
20°-30°	404.1	29.6
30°-40°	159.7	11.7
40°-50°	49.0	3.6
50°-60°	12.7	0.9
60°-70°	7.7	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°	1129.3	82.7
0°-40°	1289.0	94.4
0°-60°	1350.7	98.9
0°-90°	1365.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2433	2437	2439	2434	2428	225
15°	1816	1821	1833	1826	1813	499
25°	828	867	933	883	844	385
35°	230	236	245	237	231	154
45°	59	59	61	60	59	48
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°	2517.8	2517.8	2517.8	2517.8	2517.8
2.5°	2486.3	2487.8	2490.0	2487.1	2479.7
5°	2432.9	2437.3	2438.7	2433.6	2427.7
7.5°	2345.0	2339.8	2344.2	2335.5	2328.1
10°	2201.4	2194.8	2192.6	2179.5	2179.5
12.5°	2024.2	2022.0	2023.5	2016.9	2006.6
15°	1816.2	1821.3	1833.1	1825.7	1813.3
17.5°	1595.8	1603.1	1613.4	1611.2	1594.3
20°	1351.2	1372.4	1387.1	1373.2	1349.0
22.5°	1072.9	1118.3	1155.6	1126.4	1086.8
25°	827.6	867.1	933.0	883.2	843.7
27.5°	627.6	656.2	716.2	667.2	640.1
30°	459.9	477.5	519.2	487.0	468.0
32.5°	328.8	341.3	358.9	339.8	330.3
35°	230.0	236.5	244.6	237.3	230.7
37.5°	161.8	164.0	169.9	164.0	161.1
40°	113.5	114.2	118.6	115.0	113.5
42.5°	82.0	82.0	84.2	82.8	82.0
45°	58.6	59.3	60.8	60.1	59.3
47.5°	41.7	43.2	43.2	43.9	41.0
50°	24.9	30.8	31.5	30.8	24.9
52.5°	13.2	18.3	22.7	18.3	13.2
55°	8.1	11.0	15.4	11.0	8.8
57.5°	8.1	8.1	10.3	8.8	8.1
60°	8.1	8.1	8.1	8.1	8.1
62.5°	8.1	8.1	8.1	8.1	8.1
65°	7.3	8.1	8.1	8.1	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	7.3	7.3	6.6	7.3	7.3
72.5°	6.6	6.6	5.9	6.6	6.6
75°	5.1	5.1	5.1	5.1	5.1
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.7	3.7	2.9	3.7	3.7
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)