

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: P283984

Luminaire Tested: **LDA2B158040D010 EU2B15WFL558040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283984  
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: LDA2B158040D010 EU2B15WFL558040 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 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: 1381.9 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

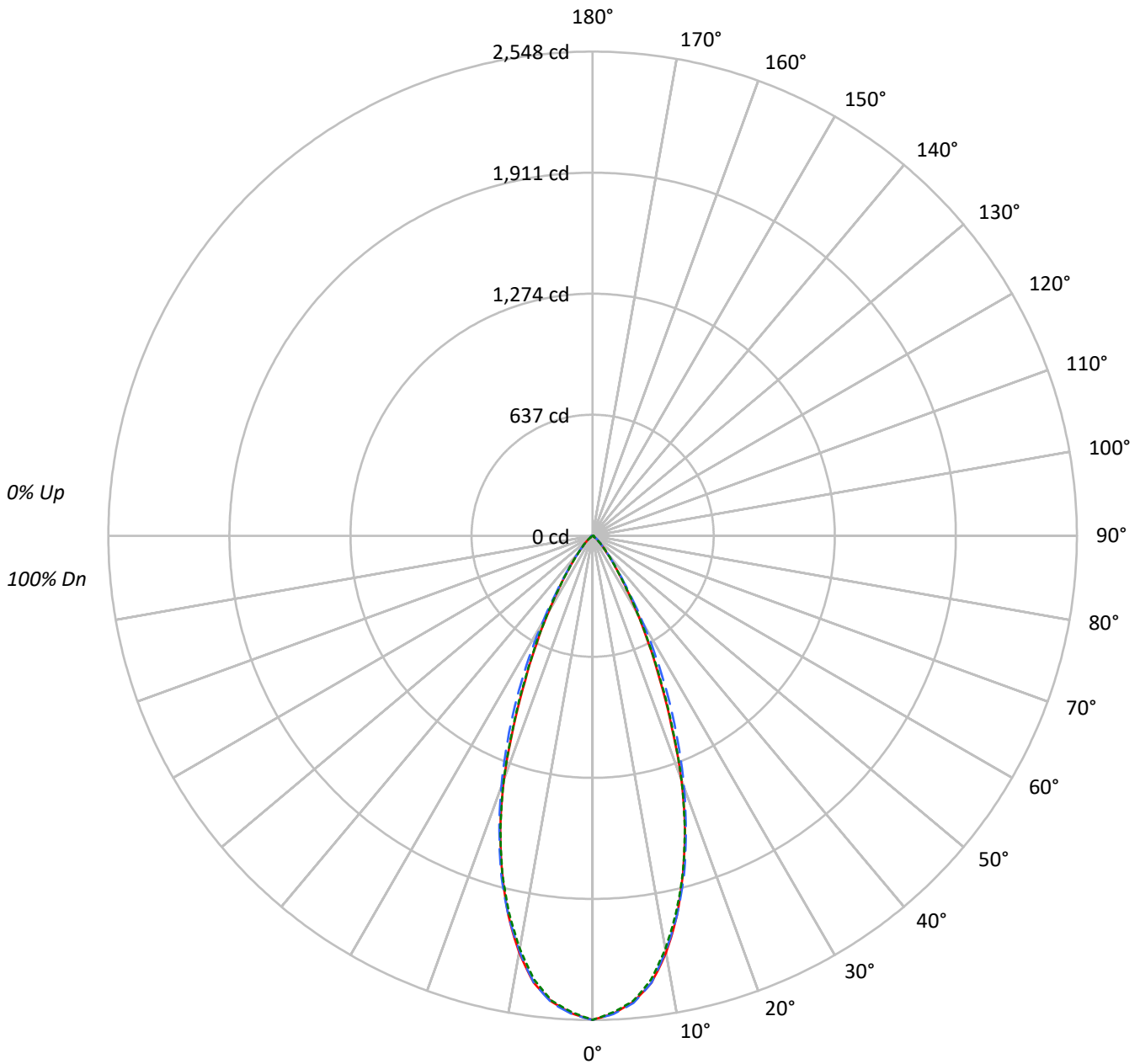
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1256987	1256987	1256987
5°	1219247	1222169	1216672
10°	1116017	1111558	1104845
15°	938736	947419	937204
20°	717866	736925	716711
25°	455851	513935	464724
30°	265131	299313	269746
35°	140151	149065	140573
40°	74000	77349	74000
45°	41375	42910	41863
50°	19342	24484	19342
55°	7053	13418	7655
60°	8091	8091	8091
65°	8639	9573	8639
70°	10674	9665	10674
75°	9912	9912	9912
80°	10512	8523	10512
85°	8491	8491	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.4	16.5
10°-20°	506.4	36.6
20°-30°	409.0	29.6
30°-40°	161.6	11.7
40°-50°	49.6	3.6
50°-60°	12.8	0.9
60°-70°	7.8	0.6
70°-80°	5.7	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°	1142.8	82.7
0°-40°	1304.4	94.4
0°-60°	1366.8	98.9
0°-90°	1381.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2548	2548	2548	2548	2548	
5°	2462	2466	2468	2463	2457	228
15°	1838	1843	1855	1848	1835	505
25°	837	877	944	894	854	390
35°	233	239	248	240	233	156
45°	59	60	62	61	60	48
55°	8	11	16	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°	2547.8	2547.8	2547.8	2547.8	2547.8
2.5°	2516.0	2517.4	2519.7	2516.7	2509.3
5°	2461.9	2466.3	2467.8	2462.6	2456.7
7.5°	2372.9	2367.7	2372.2	2363.3	2355.9
10°	2227.7	2221.0	2218.8	2205.4	2205.4
12.5°	2048.3	2046.1	2047.6	2040.9	2030.5
15°	1837.9	1843.1	1854.9	1847.5	1834.9
17.5°	1614.8	1622.2	1632.6	1630.4	1613.3
20°	1367.3	1388.8	1403.6	1389.5	1365.1
22.5°	1085.7	1131.6	1169.4	1139.8	1099.8
25°	837.4	877.4	944.1	893.7	853.7
27.5°	635.1	664.0	724.8	675.1	647.7
30°	465.4	483.2	525.4	492.8	473.5
32.5°	332.7	345.3	363.1	343.9	334.2
35°	232.7	239.4	247.5	240.1	233.4
37.5°	163.8	166.0	171.9	166.0	163.0
40°	114.9	115.6	120.1	116.3	114.9
42.5°	83.0	83.0	85.2	83.7	83.0
45°	59.3	60.0	61.5	60.8	60.0
47.5°	42.2	43.7	43.7	44.5	41.5
50°	25.2	31.1	31.9	31.1	25.2
52.5°	13.3	18.5	23.0	18.5	13.3
55°	8.2	11.1	15.6	11.1	8.9
57.5°	8.2	8.2	10.4	8.9	8.2
60°	8.2	8.2	8.2	8.2	8.2
62.5°	8.2	8.2	8.2	8.2	8.2
65°	7.4	8.2	8.2	8.2	7.4
67.5°	7.4	7.4	7.4	7.4	7.4
70°	7.4	7.4	6.7	7.4	7.4
72.5°	6.7	6.7	5.9	6.7	6.7
75°	5.2	5.2	5.2	5.2	5.2
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.7	3.7	3.0	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)