

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: P284023

Luminaire Tested: **LDA2B159040D010 EU2B15WFL559040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284023  
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: LDA2B159040D010 EU2B15WFL559040 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1040.2 lumens  
Efficiency: N/A  
Efficacy: 73.8 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

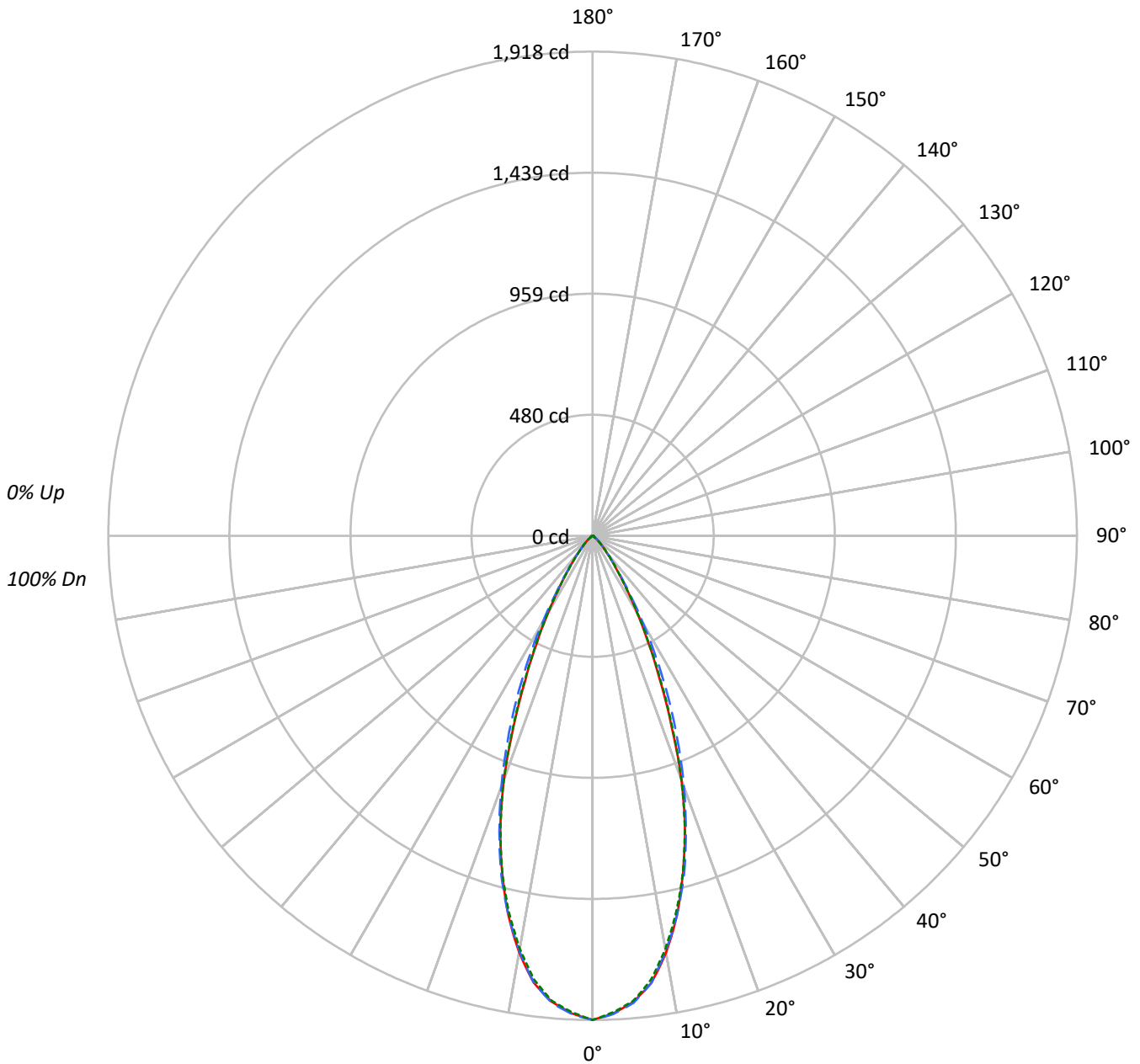
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	946219	946219	946219
5°	917741	919970	915810
10°	840081	836725	831665
15°	706593	713182	705470
20°	540355	554689	539463
25°	343167	386880	349809
30°	199561	225310	203093
35°	105520	112205	105821
40°	55709	58221	55709
45°	31118	32304	31537
50°	14583	18421	14583
55°	5247	10064	5763
60°	6019	6019	6019
65°	6537	7121	6537
70°	8078	7212	8078
75°	7434	7434	7434
80°	7955	6251	7955
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.2	16.5
10°-20°	381.2	36.6
20°-30°	307.8	29.6
30°-40°	121.7	11.7
40°-50°	37.4	3.6
50°-60°	9.6	0.9
60°-70°	5.8	0.6
70°-80°	4.3	0.4
80°-90°	1.3	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°	860.2	82.7
0°-40°	981.9	94.4
0°-60°	1028.9	98.9
0°-90°	1040.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1853	1856	1858	1854	1849	172
15°	1383	1387	1396	1391	1381	380
25°	630	660	711	673	643	293
35°	175	180	186	181	176	117
45°	45	45	46	46	45	36
55°	6	8	12	8	7	8
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1917.9	1917.9	1917.9	1917.9	1917.9
2.5°	1893.9	1895.0	1896.7	1894.4	1888.8
5°	1853.1	1856.5	1857.6	1853.7	1849.2
7.5°	1786.2	1782.3	1785.6	1779.0	1773.4
10°	1676.9	1671.8	1670.2	1660.1	1660.1
12.5°	1541.9	1540.2	1541.3	1536.3	1528.5
15°	1383.4	1387.3	1396.3	1390.7	1381.2
17.5°	1215.5	1221.1	1228.9	1227.2	1214.4
20°	1029.2	1045.4	1056.5	1045.9	1027.5
22.5°	817.2	851.8	880.3	858.0	827.8
25°	630.4	660.5	710.7	672.8	642.6
27.5°	478.1	499.8	545.6	508.2	487.6
30°	350.3	363.7	395.5	371.0	356.5
32.5°	250.5	260.0	273.3	258.8	251.6
35°	175.2	180.2	186.3	180.7	175.7
37.5°	123.3	125.0	129.4	125.0	122.7
40°	86.5	87.0	90.4	87.6	86.5
42.5°	62.5	62.5	64.2	63.0	62.5
45°	44.6	45.2	46.3	45.7	45.2
47.5°	31.8	32.9	32.9	33.5	31.2
50°	19.0	23.4	24.0	23.4	19.0
52.5°	10.0	13.9	17.3	13.9	10.0
55°	6.1	8.4	11.7	8.4	6.7
57.5°	6.1	6.1	7.8	6.7	6.1
60°	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.6	6.1	6.1	6.1	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.0	5.6	5.6
72.5°	5.0	5.0	4.5	5.0	5.0
75°	3.9	3.9	3.9	3.9	3.9
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.8	2.8	2.2	2.8	2.8
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)