

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: P282648

Luminaire Tested: **LDA2B059040D010 EU2B05NFL259040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B059040D010 EU2B05NFL259040 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 567.8 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

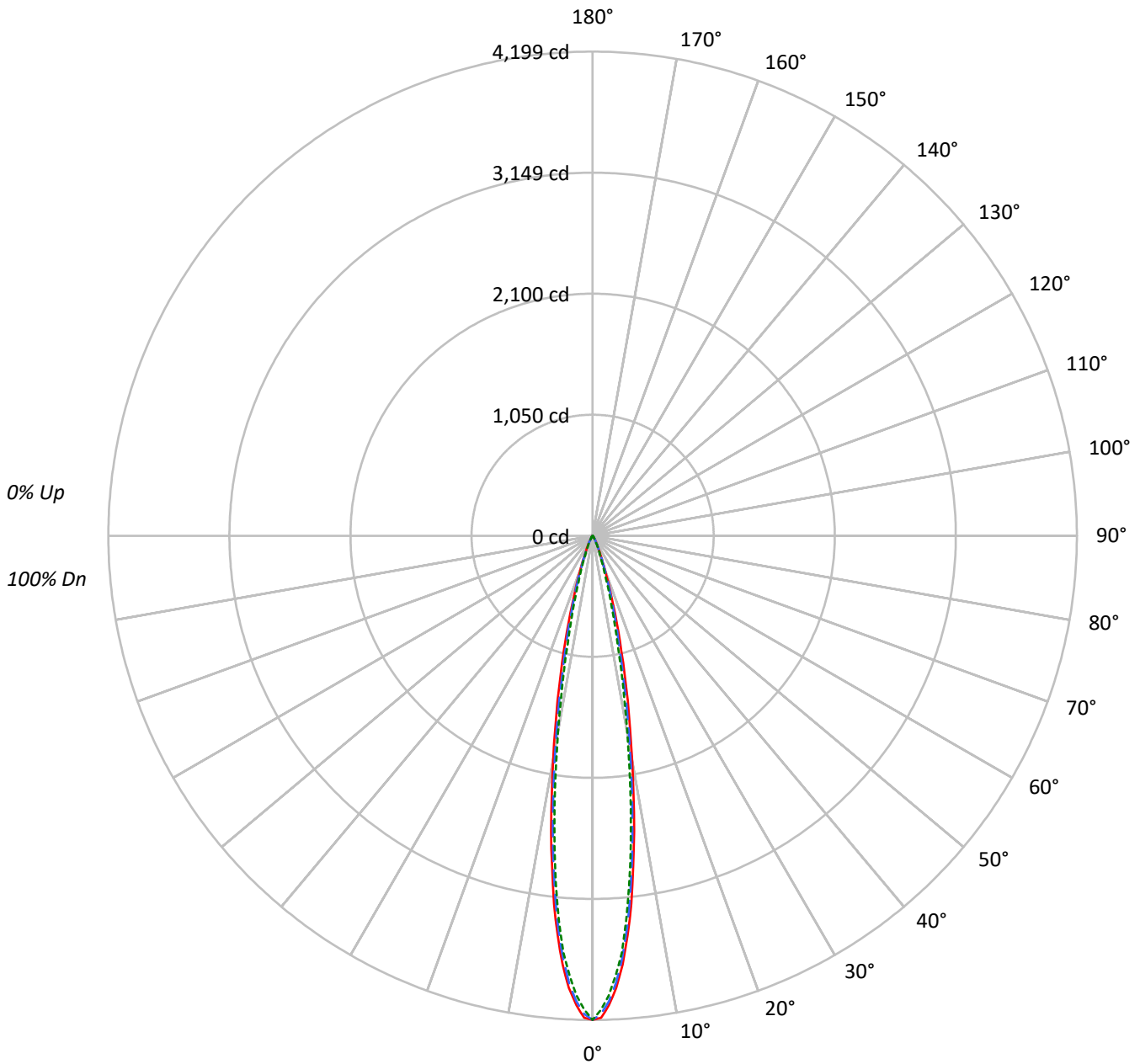
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2071527	2071527	2071527
5°	1723705	1692158	1657986
10°	987317	926499	864679
15°	439156	390021	326839
20°	159292	149790	118656
25°	61187	57104	49156
30°	26376	24553	21762
35°	12467	12467	10359
40°	6247	6440	5217
45°	3628	3419	3140
50°	2456	2226	2226
55°	1978	1376	1634
60°	1579	987	1283
65°	1167	700	1167
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.1	48.1
10°-20°	221.0	38.9
20°-30°	53.3	9.4
30°-40°	13.6	2.4
40°-50°	4.0	0.7
50°-60°	1.7	0.3
60°-70°	0.8	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	547.4	96.4
0°-40°	561.0	98.8
0°-60°	566.7	99.8
0°-90°	567.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	567.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4199	4199	4199	4199	4199	
5°	3480	3448	3417	3387	3348	281
15°	860	839	764	688	640	245
25°	112	113	105	95	90	58
35°	21	21	21	19	17	14
45°	5	5	5	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4198.8	4198.8	4198.8	4198.8	4198.8
1°	4180.0	4150.9	4147.3	4165.5	4112.0
2°	4073.2	4052.4	4040.5	4051.1	3990.6
3°	3926.5	3906.4	3884.7	3885.0	3817.3
4°	3726.7	3710.8	3674.2	3663.2	3624.0
5°	3480.5	3448.5	3416.8	3387.0	3347.8
6°	3208.5	3167.1	3121.7	3077.4	3037.2
7°	2888.6	2861.1	2801.1	2740.6	2706.6
8°	2587.7	2543.4	2473.4	2397.7	2368.8
9°	2264.2	2232.5	2152.2	2064.1	2035.3
10°	1970.8	1937.8	1849.4	1751.3	1726.0
11°	1695.6	1664.5	1572.5	1469.6	1442.7
12°	1462.7	1418.7	1313.1	1223.8	1197.5
13°	1230.9	1200.8	1100.7	1012.3	961.5
14°	1033.7	1008.7	918.1	840.3	786.6
15°	859.8	839.4	763.6	687.8	639.9
16°	705.3	692.7	632.8	559.6	520.4
17°	572.2	560.6	522.3	455.0	422.0
18°	462.1	460.5	428.8	370.5	341.0
19°	380.2	379.5	350.4	301.5	277.2
20°	303.4	307.6	285.3	242.6	226.0
21°	247.4	249.7	231.9	199.5	184.6
22°	201.4	203.0	191.4	164.8	156.7
23°	165.2	166.1	156.4	136.7	129.5
24°	136.0	136.7	127.9	114.0	107.8
25°	112.4	113.0	104.9	95.2	90.3
26°	93.3	93.9	86.8	80.0	75.1
27°	77.4	78.7	71.6	67.4	62.2
28°	66.1	66.4	59.9	57.3	52.5
29°	54.1	56.0	50.5	48.3	44.7
30°	46.3	47.3	43.1	41.5	38.2
32.5°	30.8	31.4	29.5	28.2	25.6
35°	20.7	21.0	20.7	18.8	17.2
37.5°	14.2	14.2	14.6	12.3	11.7
40°	9.7	9.7	10.0	8.4	8.1
42.5°	7.1	7.1	6.8	5.8	5.8
45°	5.2	5.2	4.9	4.5	4.5
47.5°	4.2	3.9	3.6	3.6	3.6
50°	3.2	3.2	2.9	2.6	2.9
52.5°	2.6	2.6	2.3	2.3	2.3
55°	2.3	1.9	1.6	1.6	1.9
57.5°	1.6	1.6	1.3	1.3	1.6
60°	1.6	1.3	1.0	1.3	1.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







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







62.5°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.6	0.6	1.0



(END OF REPORT)