

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: P282647

Luminaire Tested: **LDA2B059040D010 EU2B05NFL259040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282647
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 575.9 lumens
Efficiency: N/A
Efficacy: 82.3 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

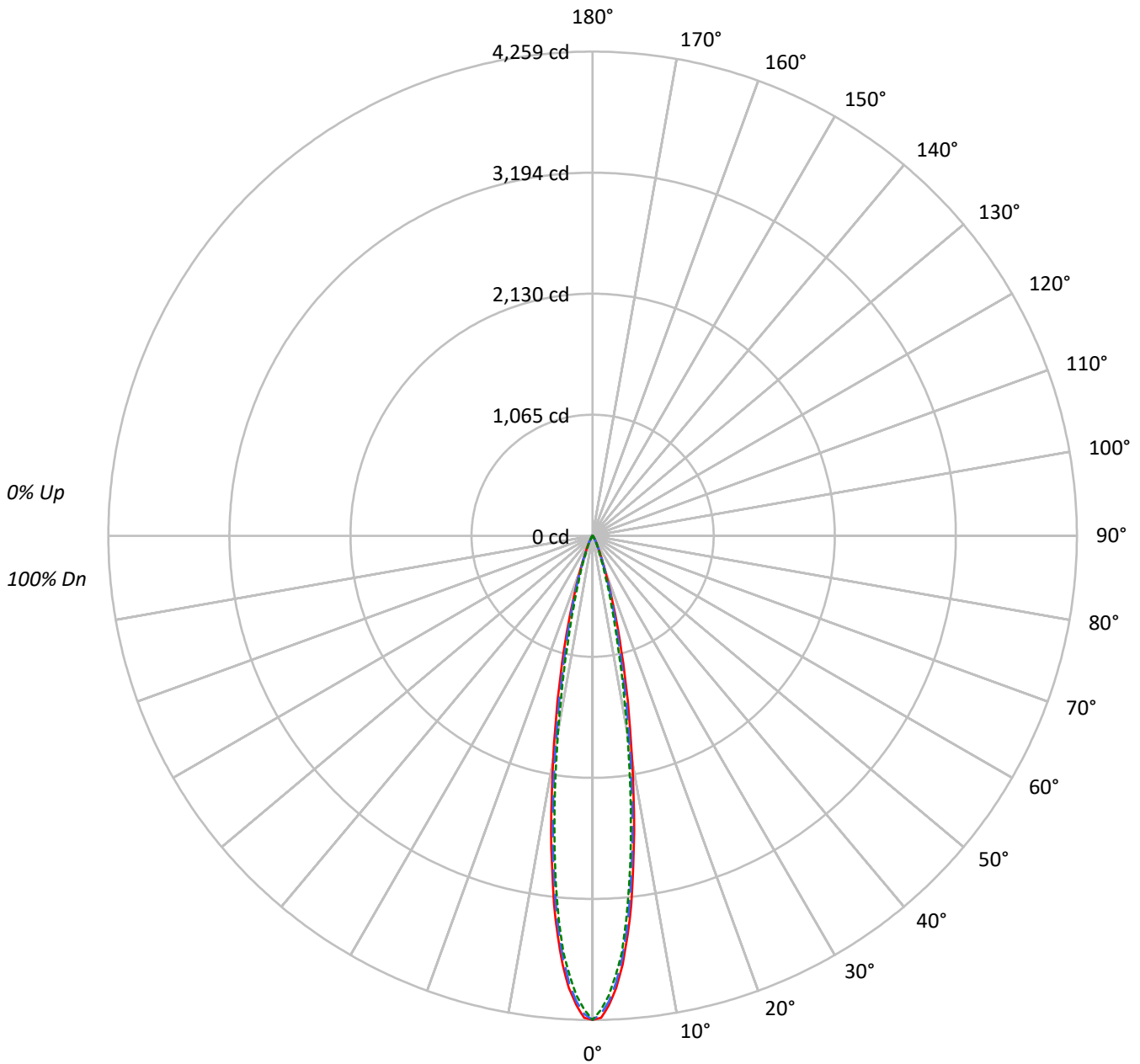
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2101080	2101080	2101080
5°	1748319	1716276	1681609
10°	1001444	939725	877053
15°	445388	395588	331487
20°	161603	151942	120388
25°	62058	57920	49864
30°	26775	24895	22104
35°	12648	12648	10480
40°	6376	6569	5281
45°	3698	3419	3210
50°	2533	2303	2303
55°	1978	1376	1720
60°	1579	987	1283
65°	1167	817	1167
70°	1010	433	1010
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	48.1
10°-20°	224.2	38.9
20°-30°	54.0	9.4
30°-40°	13.8	2.4
40°-50°	4.1	0.7
50°-60°	1.7	0.3
60°-70°	0.9	0.2
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°	555.2	96.4
0°-40°	569.0	98.8
0°-60°	574.8	99.8
0°-90°	575.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4259	4259	4259	4259	4259	
5°	3530	3498	3466	3435	3396	285
15°	872	851	774	698	649	249
25°	114	115	106	97	92	59
35°	21	21	21	19	17	15
45°	5	5	5	5	5	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°	4258.7	4258.7	4258.7	4258.7	4258.7
1°	4239.7	4210.1	4206.5	4224.9	4170.7
2°	4131.3	4110.3	4098.1	4108.9	4047.5
3°	3982.5	3962.1	3940.1	3940.4	3871.8
4°	3779.8	3763.7	3726.6	3715.5	3675.7
5°	3530.2	3497.7	3465.5	3435.3	3395.5
6°	3254.3	3212.3	3166.3	3121.3	3080.6
7°	2929.8	2901.9	2841.1	2779.7	2745.2
8°	2624.7	2579.7	2508.7	2431.9	2402.6
9°	2296.5	2264.4	2182.9	2093.6	2064.3
10°	1999.0	1965.5	1875.8	1776.3	1750.7
11°	1719.8	1688.2	1595.0	1490.5	1463.3
12°	1483.6	1439.0	1331.9	1241.2	1214.6
13°	1248.4	1217.9	1116.4	1026.7	975.2
14°	1048.4	1023.1	931.2	852.3	797.8
15°	872.0	851.3	774.5	697.6	649.0
16°	715.4	702.6	641.8	567.6	527.8
17°	580.4	568.6	529.8	461.5	428.0
18°	468.7	467.1	434.9	375.7	345.9
19°	385.6	384.9	355.4	305.8	281.2
20°	307.8	312.0	289.4	246.0	229.3
21°	250.9	253.2	235.2	202.3	187.2
22°	204.3	205.9	194.1	167.2	159.0
23°	167.5	168.5	158.6	138.6	131.4
24°	138.0	138.6	129.7	115.6	109.4
25°	114.0	114.6	106.4	96.6	91.6
26°	94.6	95.3	88.0	81.1	76.2
27°	78.5	79.8	72.6	68.3	63.1
28°	67.0	67.3	60.8	58.1	53.2
29°	54.9	56.8	51.2	48.9	45.3
30°	47.0	48.0	43.7	42.0	38.8
32.5°	31.2	31.9	29.9	28.6	25.9
35°	21.0	21.3	21.0	19.1	17.4
37.5°	14.5	14.5	14.8	12.5	11.8
40°	9.9	9.9	10.2	8.5	8.2
42.5°	7.2	7.2	6.9	5.9	5.9
45°	5.3	5.3	4.9	4.6	4.6
47.5°	4.3	3.9	3.6	3.6	3.6
50°	3.3	3.3	3.0	2.6	3.0
52.5°	2.6	2.6	2.3	2.3	2.3
55°	2.3	2.0	1.6	1.6	2.0
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	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.3	0.3	0.7
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



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







62.5°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.7	0.7	1.0



(END OF REPORT)