

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: P282697

Luminaire Tested: **LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282697
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: LDA2B109727D010 EU2B10NFL259727 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 638.1 lumens
Efficiency: N/A
Efficacy: 63.8 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

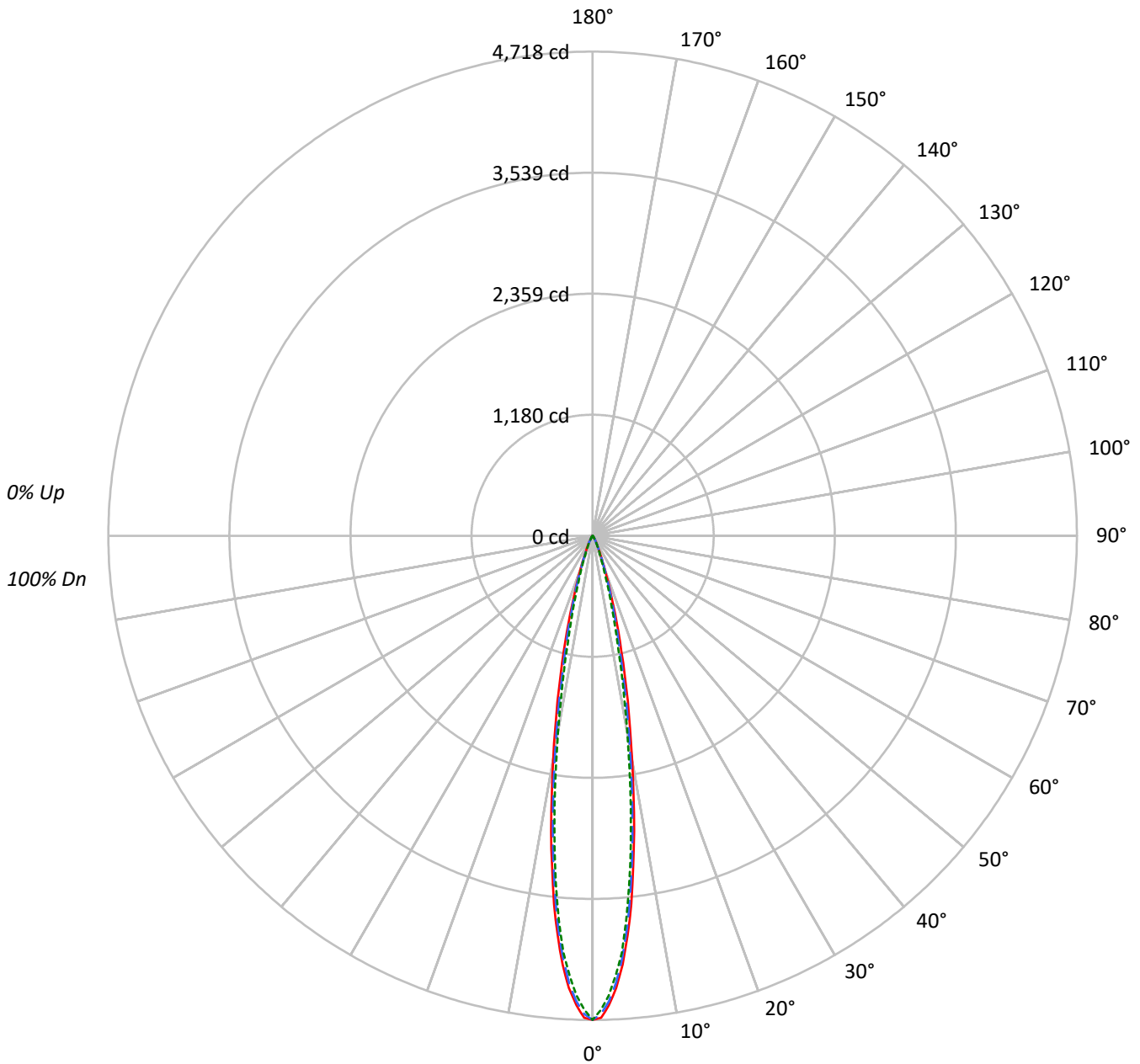
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2327582	2327582	2327582
5°	1936809	1901300	1862919
10°	1109404	1041021	971586
15°	493451	438237	367241
20°	178981	168323	133356
25°	68753	64181	55253
30°	29624	27573	24439
35°	14033	14033	11624
40°	7020	7278	5861
45°	4047	3837	3558
50°	2763	2533	2533
55°	2150	1548	1892
60°	1776	1085	1480
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	48.1
10°-20°	248.3	38.9
20°-30°	59.9	9.4
30°-40°	15.3	2.4
40°-50°	4.5	0.7
50°-60°	1.9	0.3
60°-70°	0.9	0.1
70°-80°	0.3	0.1
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°	615.0	96.4
0°-40°	630.3	98.8
0°-60°	636.8	99.8
0°-90°	638.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4718	4718	4718	4718	4718	
5°	3911	3875	3839	3806	3762	316
15°	966	943	858	773	719	275
25°	126	127	118	107	102	65
35°	23	24	23	21	19	16
45°	6	6	6	5	5	5
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°	4717.8	4717.8	4717.8	4717.8	4717.8
1°	4696.7	4664.0	4660.0	4680.4	4620.3
2°	4576.7	4553.4	4539.9	4551.9	4483.9
3°	4411.8	4389.3	4364.9	4365.3	4289.2
4°	4187.3	4169.5	4128.4	4116.0	4072.0
5°	3910.8	3874.8	3839.1	3805.6	3761.6
6°	3605.1	3558.6	3507.6	3457.8	3412.7
7°	3245.7	3214.7	3147.4	3079.4	3041.2
8°	2907.6	2857.8	2779.2	2694.0	2661.7
9°	2544.1	2508.5	2418.2	2319.3	2286.9
10°	2214.5	2177.4	2078.0	1967.8	1939.4
11°	1905.2	1870.3	1766.9	1651.2	1621.0
12°	1643.6	1594.1	1475.5	1375.0	1345.6
13°	1383.0	1349.2	1236.8	1137.4	1080.3
14°	1161.4	1133.4	1031.5	944.2	883.8
15°	966.1	943.1	858.0	772.8	719.0
16°	792.5	778.3	711.0	628.8	584.7
17°	642.9	629.8	586.9	511.2	474.1
18°	519.2	517.4	481.8	416.3	383.1
19°	427.2	426.4	393.7	338.8	311.5
20°	340.9	345.7	320.6	272.5	254.0
21°	278.0	280.5	260.5	224.1	207.4
22°	226.3	228.1	215.0	185.2	176.1
23°	185.6	186.7	175.7	153.5	145.5
24°	152.8	153.5	143.7	128.1	121.2
25°	126.3	127.0	117.9	107.0	101.5
26°	104.8	105.5	97.5	89.9	84.4
27°	87.0	88.4	80.4	75.7	69.9
28°	74.2	74.6	67.3	64.4	58.9
29°	60.8	62.9	56.8	54.2	50.2
30°	52.0	53.1	48.4	46.6	42.9
32.5°	34.6	35.3	33.1	31.7	28.7
35°	23.3	23.7	23.3	21.1	19.3
37.5°	16.0	16.0	16.4	13.8	13.1
40°	10.9	10.9	11.3	9.5	9.1
42.5°	8.0	8.0	7.6	6.5	6.5
45°	5.8	5.8	5.5	5.1	5.1
47.5°	4.7	4.4	4.0	4.0	4.0
50°	3.6	3.6	3.3	2.9	3.3
52.5°	2.9	2.9	2.5	2.5	2.5
55°	2.5	2.2	1.8	1.8	2.2
57.5°	1.8	1.8	1.5	1.5	1.8
60°	1.8	1.5	1.1	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)