

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: P282682

Luminaire Tested: **LDA2B109027D010 EU2B10NFL259027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282682
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: LDA2B109027D010 EU2B10NFL259027 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: 709.1 lumens
Efficiency: N/A
Efficacy: 70.9 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

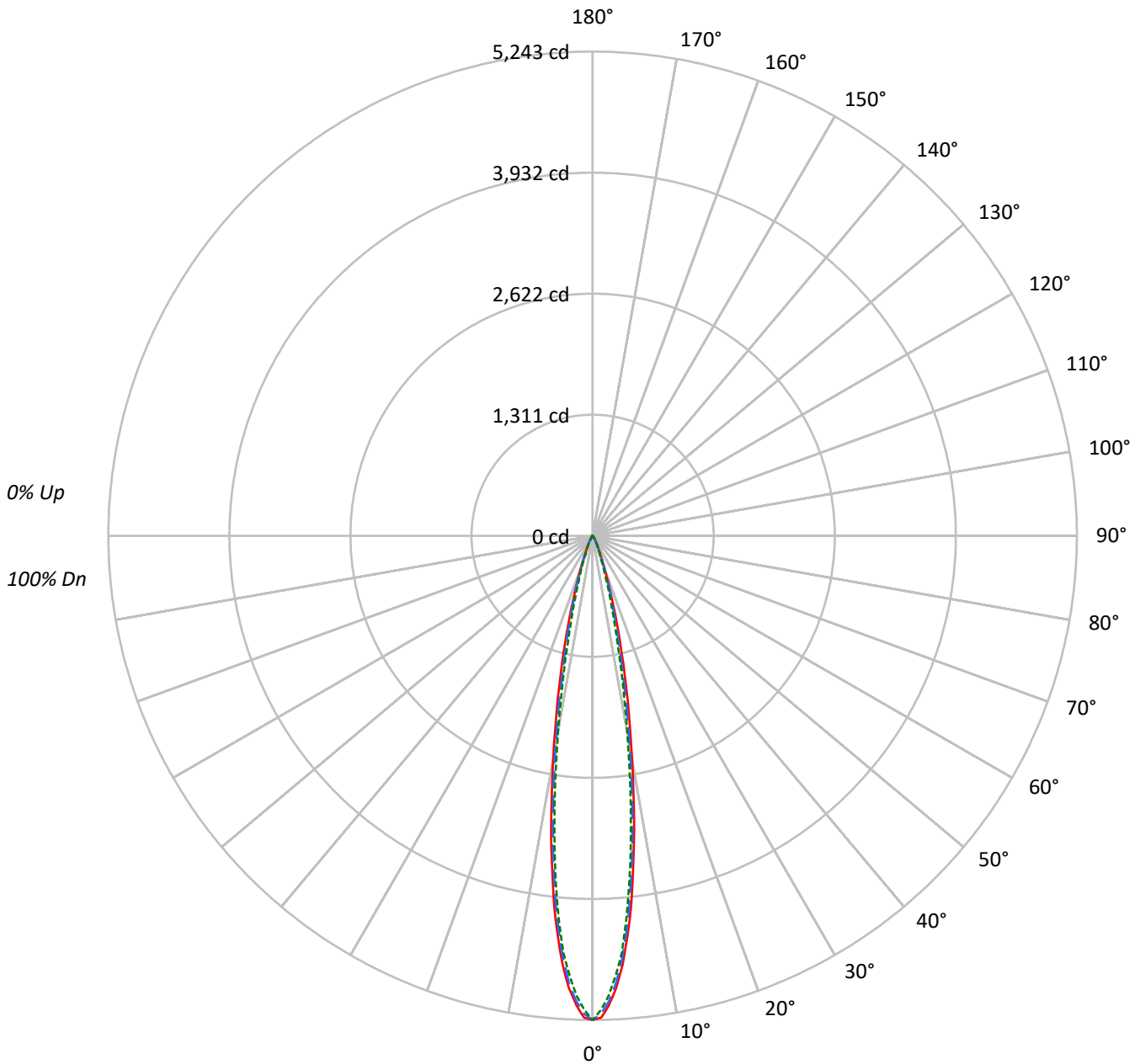
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2586844	2586844	2586844
5°	2152539	2113068	2070427
10°	1232944	1156996	1079797
15°	548409	487066	408153
20°	198932	187066	148214
25°	76374	71312	61404
30°	32928	30649	27174
35°	15599	15599	12889
40°	7793	8050	6505
45°	4535	4256	3977
50°	3070	2763	2763
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	48.1
10°-20°	276.0	38.9
20°-30°	66.6	9.4
30°-40°	17.0	2.4
40°-50°	5.1	0.7
50°-60°	2.1	0.3
60°-70°	1.0	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°	683.6	96.4
0°-40°	700.5	98.8
0°-60°	707.7	99.8
0°-90°	709.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5243	5243	5243	5243	5243	
5°	4346	4306	4267	4230	4181	351
15°	1074	1048	954	859	799	306
25°	140	141	131	119	113	72
35°	26	26	26	24	21	18
45°	6	6	6	6	6	5
55°	3	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°	5243.3	5243.3	5243.3	5243.3	5243.3
1°	5219.9	5183.5	5179.0	5201.7	5135.0
2°	5086.4	5060.6	5045.6	5058.9	4983.3
3°	4903.3	4878.2	4851.1	4851.5	4767.0
4°	4653.7	4633.9	4588.2	4574.5	4525.6
5°	4346.4	4306.4	4266.7	4229.5	4180.6
6°	4006.7	3955.0	3898.3	3842.9	3792.8
7°	3607.2	3572.8	3498.0	3422.4	3379.9
8°	3231.5	3176.1	3088.7	2994.1	2958.1
9°	2827.5	2787.9	2687.6	2577.6	2541.6
10°	2461.1	2419.9	2309.5	2187.0	2155.4
11°	2117.4	2078.6	1963.7	1835.1	1801.6
12°	1826.6	1771.6	1639.8	1528.2	1495.4
13°	1537.1	1499.5	1374.5	1264.1	1200.6
14°	1290.8	1259.7	1146.5	1049.4	982.3
15°	1073.7	1048.2	953.6	858.9	799.1
16°	880.8	865.0	790.2	698.8	649.9
17°	714.6	700.0	652.3	568.2	526.9
18°	577.1	575.0	535.4	462.6	425.8
19°	474.8	473.9	437.6	376.5	346.2
20°	378.9	384.2	356.3	302.9	282.3
21°	309.0	311.8	289.5	249.1	230.5
22°	251.5	253.6	239.0	205.8	195.7
23°	206.2	207.5	195.3	170.7	161.8
24°	169.8	170.7	159.7	142.3	134.7
25°	140.3	141.1	131.0	118.9	112.8
26°	116.5	117.3	108.4	99.9	93.8
27°	96.6	98.3	89.4	84.1	77.6
28°	82.5	82.9	74.8	71.6	65.5
29°	67.5	70.0	63.1	60.3	55.8
30°	57.8	59.0	53.8	51.8	47.7
32.5°	38.4	39.2	36.8	35.2	31.9
35°	25.9	26.3	25.9	23.5	21.4
37.5°	17.8	17.8	18.2	15.4	14.6
40°	12.1	12.1	12.5	10.5	10.1
42.5°	8.9	8.9	8.5	7.3	7.3
45°	6.5	6.5	6.1	5.7	5.7
47.5°	5.3	4.9	4.4	4.4	4.4
50°	4.0	4.0	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)