

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: P282700

Luminaire Tested: **LDA2B109730D010 EU2B10NFL259730 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282700
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: LDA2B109730D010 EU2B10NFL259730 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: 679.1 lumens
Efficiency: N/A
Efficacy: 67.9 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

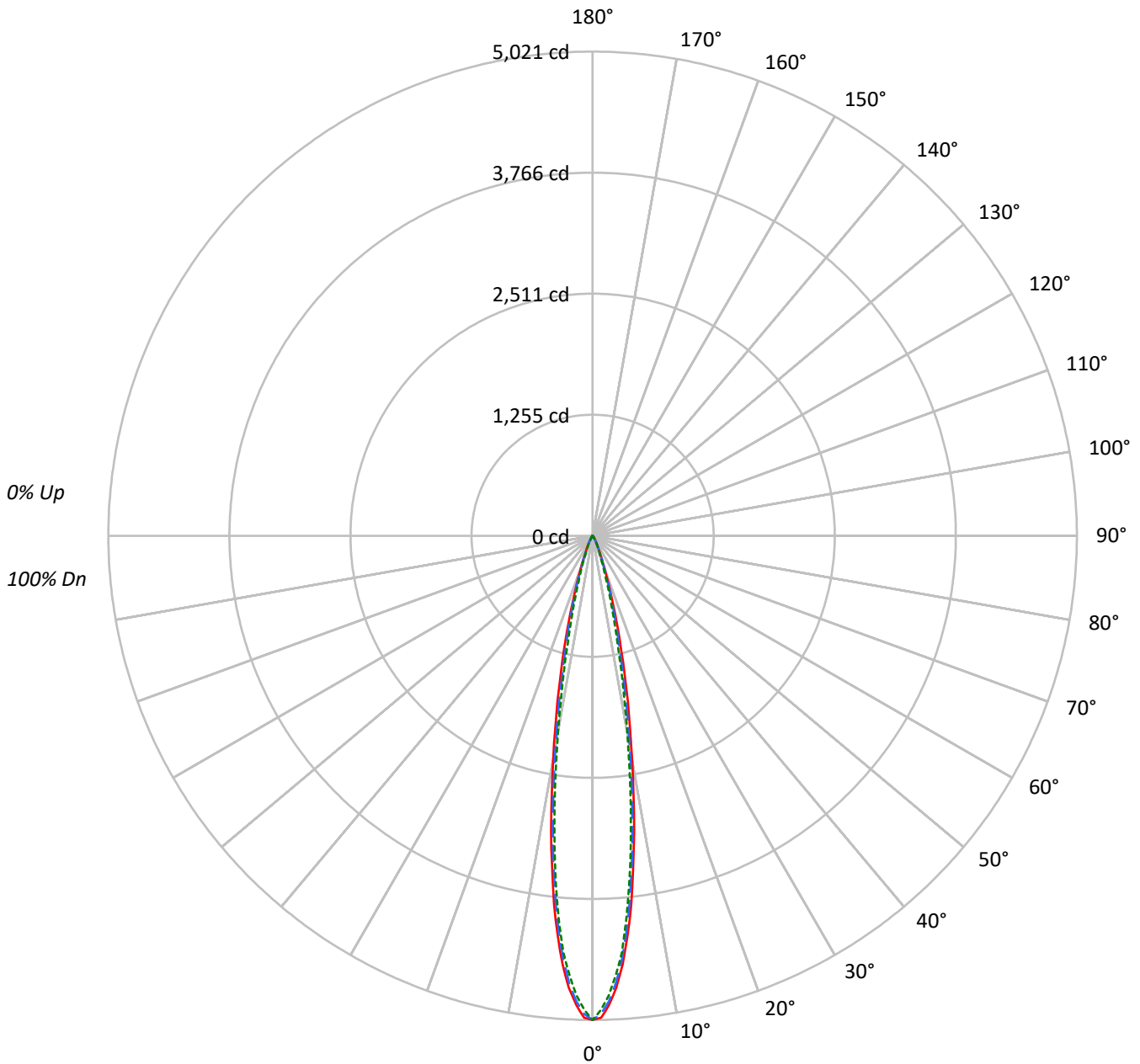
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282700

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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°	2477268	2477268	2477268
5°	2061314	2023527	1982669
10°	1180692	1107951	1034058
15°	525169	466380	390838
20°	190531	179138	141914
25°	73163	68318	58791
30°	31561	29339	26035
35°	14937	14937	12347
40°	7471	7728	6247
45°	4326	4047	3768
50°	2993	2686	2686
55°	2322	1634	1978
60°	1875	1184	1480
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°	326.6	48.1
10°-20°	264.3	38.9
20°-30°	63.7	9.4
30°-40°	16.2	2.4
40°-50°	4.8	0.7
50°-60°	2.0	0.3
60°-70°	1.0	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°	654.6	96.4
0°-40°	670.8	98.8
0°-60°	677.7	99.8
0°-90°	679.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5021	5021	5021	5021	5021	
5°	4162	4124	4086	4050	4003	337
15°	1028	1004	913	822	765	293
25°	134	135	126	114	108	69
35°	25	25	25	22	20	17
45°	6	6	6	5	5	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°	5021.2	5021.2	5021.2	5021.2	5021.2
1°	4998.7	4963.8	4959.6	4981.3	4917.4
2°	4870.9	4846.1	4831.8	4844.6	4772.1
3°	4695.5	4671.5	4645.5	4645.9	4565.0
4°	4456.5	4437.6	4393.8	4380.6	4333.8
5°	4162.2	4123.9	4085.9	4050.3	4003.4
6°	3836.9	3787.4	3733.1	3680.1	3632.1
7°	3454.3	3421.4	3349.8	3277.3	3236.7
8°	3094.6	3041.5	2957.9	2867.2	2832.8
9°	2707.7	2669.7	2573.7	2468.4	2433.9
10°	2356.8	2317.3	2211.6	2094.3	2064.1
11°	2027.7	1990.5	1880.5	1757.4	1725.2
12°	1749.2	1696.6	1570.3	1463.4	1432.1
13°	1472.0	1435.9	1316.3	1210.6	1149.8
14°	1236.1	1206.3	1097.9	1004.9	940.6
15°	1028.2	1003.8	913.1	822.5	765.2
16°	843.4	828.3	756.7	669.2	622.3
17°	684.3	670.3	624.6	544.1	504.6
18°	552.6	550.7	512.7	443.0	407.8
19°	454.6	453.9	419.0	360.5	331.5
20°	362.9	367.9	341.2	290.1	270.3
21°	295.9	298.6	277.3	238.5	220.7
22°	240.9	242.8	228.9	197.1	187.4
23°	197.5	198.7	187.0	163.4	154.9
24°	162.6	163.4	153.0	136.3	129.0
25°	134.4	135.2	125.5	113.9	108.0
26°	111.5	112.3	103.8	95.7	89.8
27°	92.6	94.1	85.6	80.5	74.4
28°	79.0	79.4	71.6	68.5	62.7
29°	64.7	67.0	60.4	57.7	53.4
30°	55.4	56.5	51.5	49.6	45.7
32.5°	36.8	37.6	35.2	33.7	30.6
35°	24.8	25.2	24.8	22.5	20.5
37.5°	17.0	17.0	17.4	14.7	13.9
40°	11.6	11.6	12.0	10.1	9.7
42.5°	8.5	8.5	8.1	7.0	7.0
45°	6.2	6.2	5.8	5.4	5.4
47.5°	5.0	4.6	4.3	4.3	4.3
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.2	1.5	1.5



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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°	1.5	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)