

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: P282685

Luminaire Tested: **LDA2B109030D010 EU2B10NFL259030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282685
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: LDA2B109030D010 EU2B10NFL259030 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: 739.8 lumens
Efficiency: N/A
Efficacy: 74.0 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

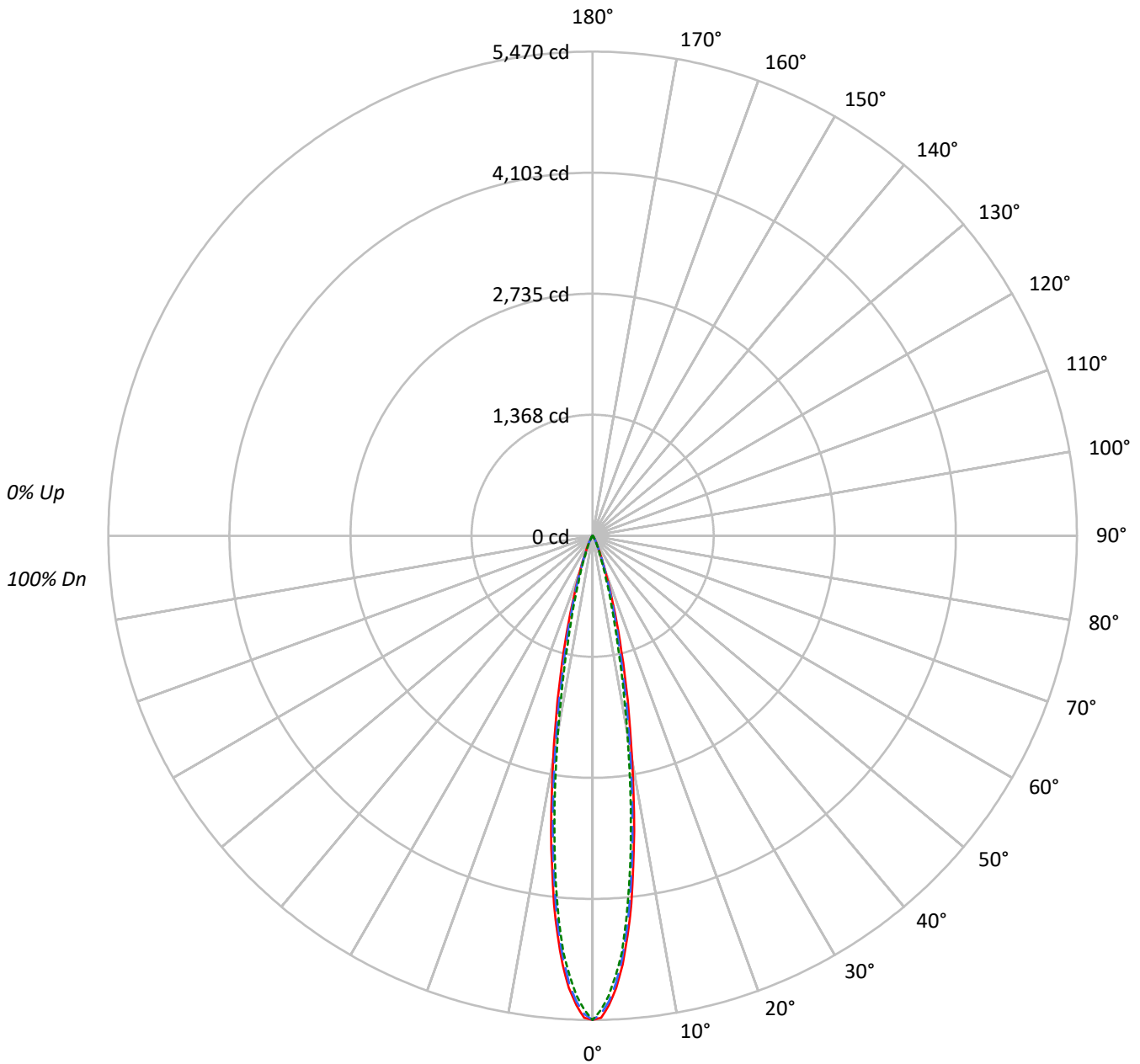
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2698886	2698886	2698886
5°	2245744	2204589	2160066
10°	1286348	1207094	1126537
15°	572109	508110	425825
20°	207542	195152	154620
25°	79695	74415	64072
30°	34352	31959	28370
35°	16262	16262	13491
40°	8179	8437	6762
45°	4744	4396	4117
50°	3224	2917	2917
55°	2580	1806	2150
60°	2072	1283	1677
65°	1518	934	1518
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°	355.8	48.1
10°-20°	287.9	38.9
20°-30°	69.4	9.4
30°-40°	17.7	2.4
40°-50°	5.3	0.7
50°-60°	2.3	0.3
60°-70°	1.1	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°	713.1	96.4
0°-40°	730.8	98.8
0°-60°	738.4	99.8
0°-90°	739.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5470	5470	5470	5470	5470	
5°	4535	4493	4452	4413	4362	367
15°	1120	1094	995	896	834	319
25°	146	147	137	124	118	76
35°	27	27	27	24	22	19
45°	7	7	6	6	6	6
55°	3	2	2	2	2	3
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5470.4	5470.4	5470.4	5470.4	5470.4
1°	5445.9	5407.9	5403.3	5426.9	5357.3
2°	5306.7	5279.7	5264.1	5278.0	5199.1
3°	5115.5	5089.4	5061.1	5061.5	4973.4
4°	4855.2	4834.6	4786.9	4772.5	4721.5
5°	4534.6	4492.8	4451.5	4412.7	4361.6
6°	4180.2	4126.2	4067.1	4009.3	3957.0
7°	3763.4	3727.5	3649.4	3570.5	3526.2
8°	3371.4	3313.6	3222.5	3123.8	3086.2
9°	2949.9	2908.6	2804.0	2689.2	2651.6
10°	2567.7	2524.7	2409.5	2281.6	2248.7
11°	2209.1	2168.6	2048.7	1914.6	1879.6
12°	1905.7	1848.3	1710.8	1594.4	1560.2
13°	1603.6	1564.4	1434.0	1318.9	1252.6
14°	1346.7	1314.2	1196.1	1094.8	1024.8
15°	1120.1	1093.6	994.8	896.1	833.7
16°	918.9	902.4	824.4	729.0	678.0
17°	745.5	730.3	680.5	592.8	549.7
18°	602.1	599.9	558.6	482.7	444.3
19°	495.3	494.5	456.5	392.8	361.1
20°	395.3	400.8	371.7	316.0	294.5
21°	322.3	325.3	302.1	259.9	240.5
22°	262.4	264.5	249.3	214.7	204.2
23°	215.2	216.4	203.8	178.0	168.8
24°	177.2	178.0	166.7	148.5	140.5
25°	146.4	147.2	136.7	124.0	117.7
26°	121.5	122.4	113.1	104.2	97.9
27°	100.8	102.5	93.2	87.8	81.0
28°	86.1	86.5	78.1	74.7	68.3
29°	70.5	73.0	65.8	62.9	58.2
30°	60.3	61.6	56.1	54.0	49.8
32.5°	40.1	40.9	38.4	36.7	33.3
35°	27.0	27.4	27.0	24.5	22.4
37.5°	18.6	18.6	19.0	16.0	15.2
40°	12.7	12.7	13.1	11.0	10.5
42.5°	9.3	9.3	8.9	7.6	7.6
45°	6.8	6.8	6.3	5.9	5.9
47.5°	5.5	5.1	4.6	4.6	4.6
50°	4.2	4.2	3.8	3.4	3.8
52.5°	3.4	3.4	3.0	3.0	3.0
55°	3.0	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.7	1.7	2.1
60°	2.1	1.7	1.3	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.8	0.8	1.3



(END OF REPORT)