

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: P282684

Luminaire Tested: **LDA2B109030D010 EU2B10NFL259030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282684
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 727.6 lumens
Efficiency: N/A
Efficacy: 72.8 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

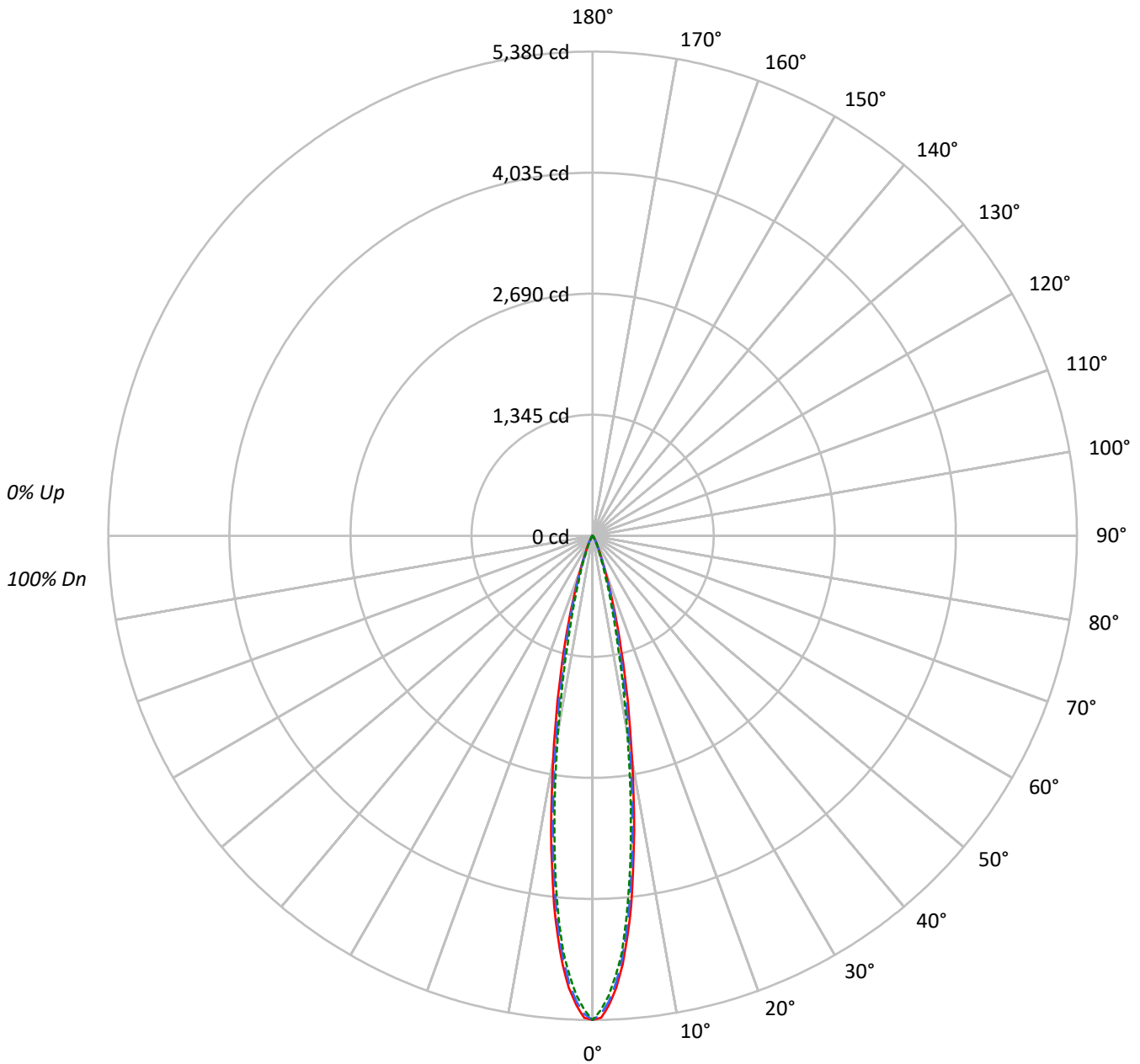
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2654385	2654385	2654385
5°	2208749	2168238	2124508
10°	1265156	1187205	1108001
15°	562711	499784	418777
20°	204130	191949	152047
25°	78388	73163	63037
30°	33782	31447	27915
35°	16021	16021	13250
40°	7986	8308	6698
45°	4605	4326	4047
50°	3147	2840	2840
55°	2494	1806	2150
60°	2072	1184	1677
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°	349.9	48.1
10°-20°	283.2	38.9
20°-30°	68.3	9.4
30°-40°	17.4	2.4
40°-50°	5.2	0.7
50°-60°	2.2	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°	701.4	96.4
0°-40°	718.8	98.8
0°-60°	726.2	99.8
0°-90°	727.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5380	5380	5380	5380	5380	
5°	4460	4419	4378	4340	4290	361
15°	1102	1076	978	881	820	314
25°	144	145	134	122	116	74
35°	27	27	27	24	22	18
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5380.2	5380.2	5380.2	5380.2	5380.2
1°	5356.2	5318.8	5314.3	5337.5	5269.0
2°	5219.2	5192.7	5177.3	5191.0	5113.4
3°	5031.3	5005.5	4977.7	4978.2	4891.4
4°	4775.2	4754.9	4708.0	4693.9	4643.7
5°	4459.9	4418.8	4378.1	4340.0	4289.8
6°	4111.3	4058.2	4000.1	3943.3	3891.8
7°	3701.4	3666.1	3589.3	3511.7	3468.2
8°	3315.9	3259.0	3169.4	3072.3	3035.4
9°	2901.3	2860.7	2757.8	2644.9	2608.0
10°	2525.4	2483.1	2369.8	2244.1	2211.7
11°	2172.7	2132.8	2015.0	1883.0	1848.6
12°	1874.3	1817.9	1682.6	1568.1	1534.5
13°	1577.2	1538.6	1410.4	1297.1	1232.0
14°	1324.5	1292.6	1176.4	1076.8	1007.9
15°	1101.7	1075.6	978.5	881.4	819.9
16°	903.8	887.6	810.8	717.0	666.8
17°	733.2	718.3	669.3	583.0	540.7
18°	592.1	590.1	549.4	474.7	436.9
19°	487.2	486.3	449.0	386.3	355.2
20°	388.8	394.2	365.6	310.8	289.6
21°	317.0	319.9	297.1	255.6	236.5
22°	258.1	260.2	245.2	211.2	200.8
23°	211.6	212.9	200.4	175.1	166.0
24°	174.3	175.1	163.9	146.1	138.2
25°	144.0	144.8	134.4	122.0	115.8
26°	119.5	120.3	111.2	102.5	96.3
27°	99.2	100.8	91.7	86.3	79.7
28°	84.6	85.1	76.8	73.4	67.2
29°	69.3	71.8	64.7	61.8	57.3
30°	59.3	60.6	55.2	53.1	49.0
32.5°	39.4	40.3	37.8	36.1	32.8
35°	26.6	27.0	26.6	24.1	22.0
37.5°	18.3	18.3	18.7	15.8	14.9
40°	12.4	12.4	12.9	10.8	10.4
42.5°	9.1	9.1	8.7	7.5	7.5
45°	6.6	6.6	6.2	5.8	5.8
47.5°	5.4	5.0	4.6	4.6	4.6
50°	4.1	4.1	3.7	3.3	3.7
52.5°	3.3	3.3	2.9	2.9	2.9
55°	2.9	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	1.2	1.7	1.7



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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°	1.7	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)