

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: P282268

Luminaire Tested: **LDA2B109727D010 EU2B10NFL259727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282268
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 683.2 lumens
Efficiency: N/A
Efficacy: 68.3 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

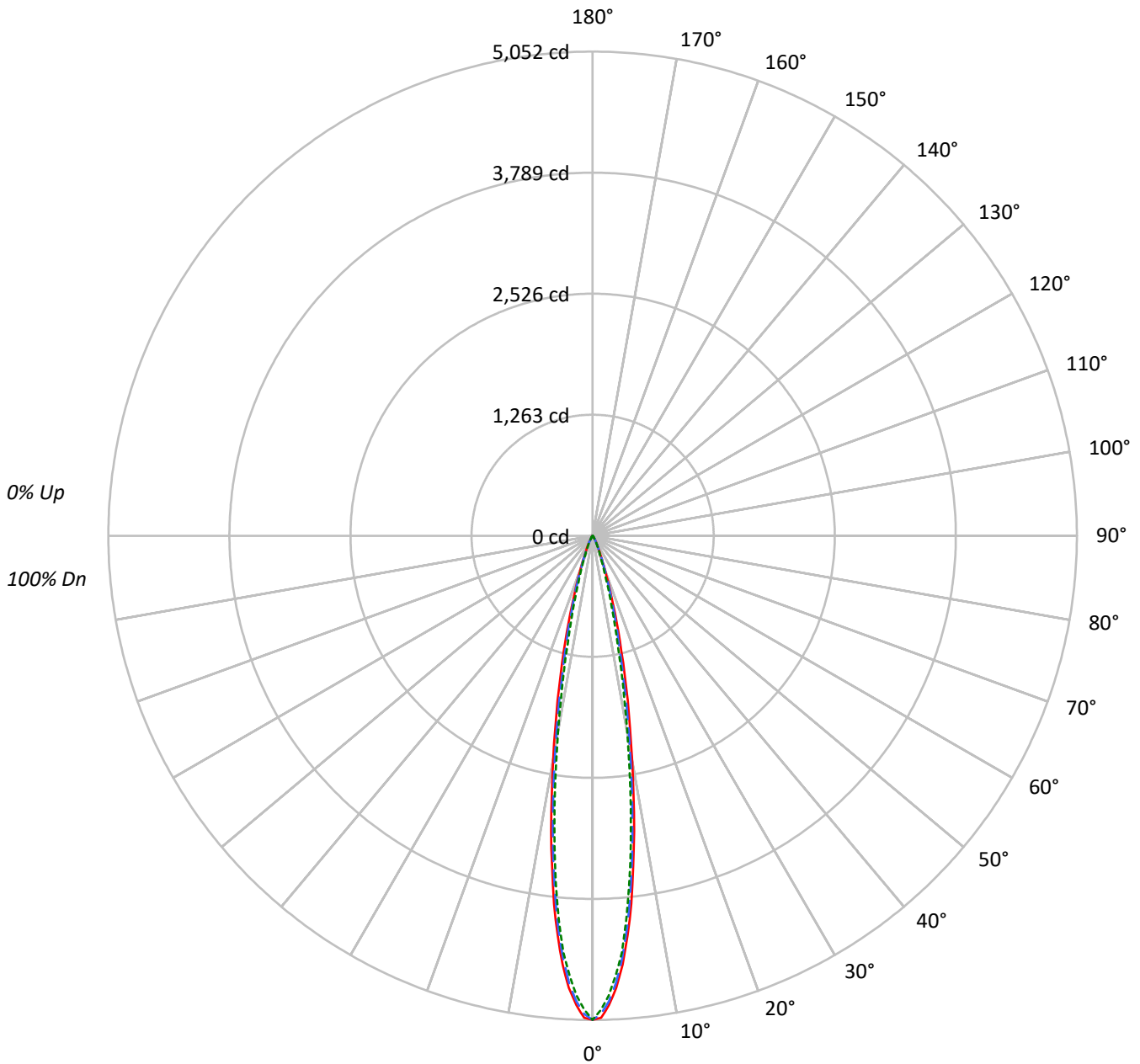
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2492316	2492316	2492316
5°	2073894	2035859	1994753
10°	1187906	1114714	1040320
15°	528336	469240	393239
20°	191686	180241	142807
25°	73598	68699	59172
30°	31731	29510	26206
35°	14997	14997	12407
40°	7535	7793	6247
45°	4326	4047	3837
50°	2993	2686	2686
55°	2322	1634	1978
60°	1875	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°	328.6	48.1
10°-20°	265.9	38.9
20°-30°	64.1	9.4
30°-40°	16.3	2.4
40°-50°	4.9	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.2
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°	658.6	96.4
0°-40°	674.9	98.8
0°-60°	681.9	99.8
0°-90°	683.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5052	5052	5052	5052	5052	
5°	4188	4149	4111	4075	4028	339
15°	1034	1010	919	828	770	295
25°	135	136	126	114	109	70
35°	25	25	25	23	21	17
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°	5051.7	5051.7	5051.7	5051.7	5051.7
1°	5029.1	4994.1	4989.8	5011.6	4947.3
2°	4900.6	4875.6	4861.2	4874.1	4801.2
3°	4724.1	4699.9	4673.8	4674.2	4592.8
4°	4483.7	4464.6	4420.6	4407.3	4360.2
5°	4187.6	4149.0	4110.8	4075.0	4027.8
6°	3860.3	3810.4	3755.9	3702.5	3654.2
7°	3475.4	3442.2	3370.2	3297.3	3256.4
8°	3113.4	3060.0	2975.9	2884.7	2850.0
9°	2724.2	2686.0	2589.4	2483.4	2448.7
10°	2371.2	2331.5	2225.1	2107.0	2076.6
11°	2040.0	2002.6	1892.0	1768.1	1735.7
12°	1759.9	1706.9	1579.9	1472.4	1440.8
13°	1480.9	1444.7	1324.3	1217.9	1156.8
14°	1243.7	1213.6	1104.6	1011.1	946.4
15°	1034.4	1009.9	918.7	827.5	769.9
16°	848.6	833.4	761.3	673.3	626.1
17°	688.4	674.4	628.4	547.4	507.7
18°	556.0	554.0	515.8	445.7	410.3
19°	457.4	456.6	421.6	362.7	333.5
20°	365.1	370.1	343.3	291.8	272.0
21°	297.7	300.4	279.0	240.0	222.1
22°	242.3	244.3	230.3	198.3	188.6
23°	198.7	199.9	188.2	164.4	155.8
24°	163.6	164.4	153.9	137.1	129.7
25°	135.2	136.0	126.2	114.5	108.7
26°	112.2	113.0	104.4	96.2	90.4
27°	93.1	94.7	86.1	81.0	74.8
28°	79.5	79.9	72.1	69.0	63.1
29°	65.1	67.4	60.8	58.1	53.8
30°	55.7	56.9	51.8	49.9	46.0
32.5°	37.0	37.8	35.5	33.9	30.8
35°	24.9	25.3	24.9	22.6	20.6
37.5°	17.1	17.1	17.5	14.8	14.0
40°	11.7	11.7	12.1	10.1	9.7
42.5°	8.6	8.6	8.2	7.0	7.0
45°	6.2	6.2	5.8	5.5	5.5
47.5°	5.1	4.7	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	1.6	1.6	1.9
60°	1.9	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)