

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: P282274

Luminaire Tested: **LDA2B109730D010 EU2B10NFL259730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282274
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 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: 727.1 lumens
Efficiency: N/A
Efficacy: 72.7 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

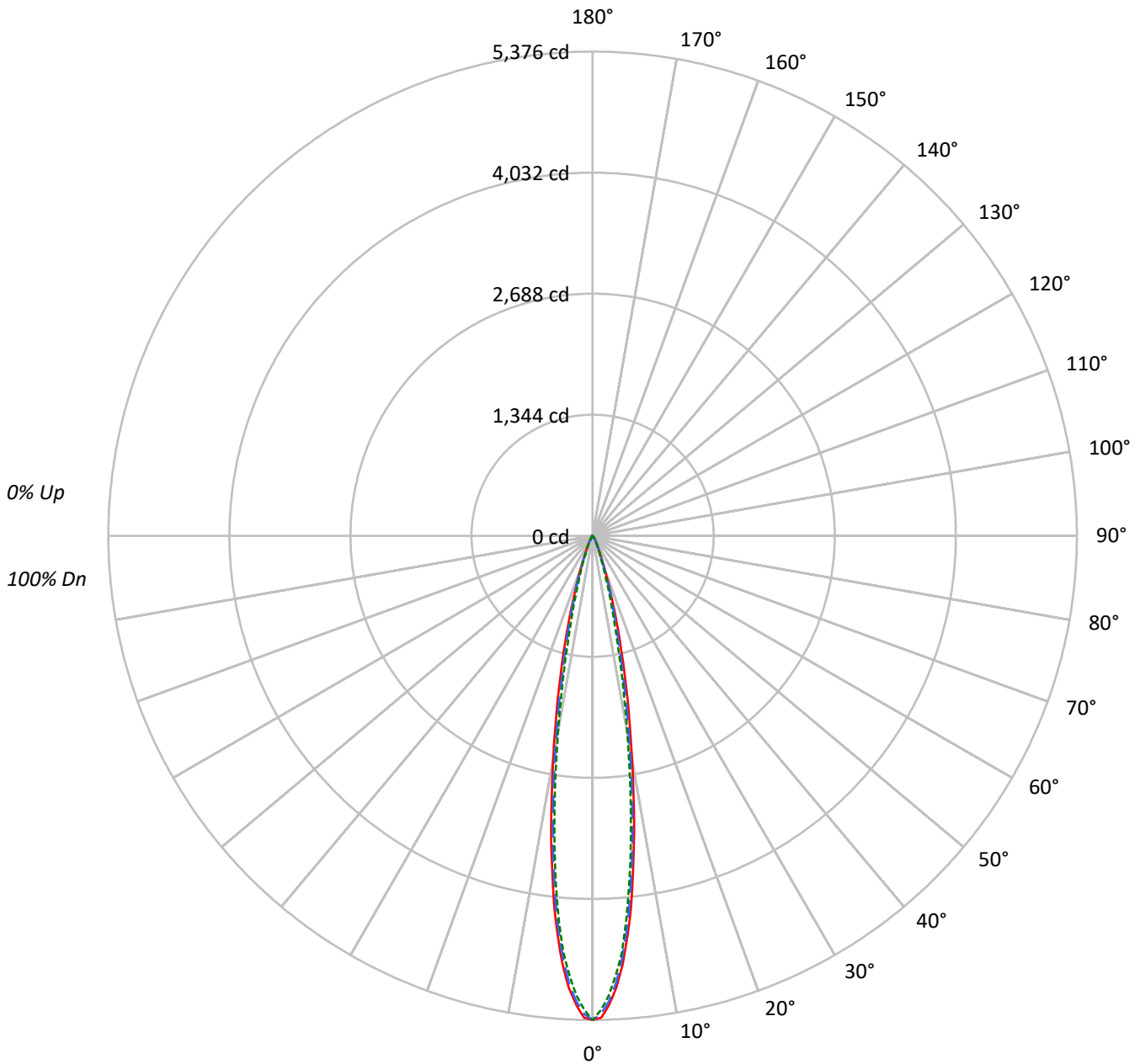
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2652560	2652560	2652560
5°	2207214	2166752	2123022
10°	1264255	1186353	1107250
15°	562302	499427	418521
20°	203972	191792	151942
25°	78334	73163	62983
30°	33782	31447	27858
35°	15961	15961	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°	349.7	48.1
10°-20°	283.0	38.9
20°-30°	68.2	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°	700.9	96.4
0°-40°	718.3	98.8
0°-60°	725.7	99.8
0°-90°	727.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5376	5376	5376	5376	5376	
5°	4457	4416	4375	4337	4287	360
15°	1101	1075	978	881	819	314
25°	144	145	134	122	116	74
35°	26	27	26	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°	5376.5	5376.5	5376.5	5376.5	5376.5
1°	5352.5	5315.2	5310.6	5333.8	5265.4
2°	5215.6	5189.1	5173.8	5187.4	5109.9
3°	5027.8	5002.1	4974.3	4974.7	4888.1
4°	4771.9	4751.6	4704.8	4690.7	4640.5
5°	4456.8	4415.8	4375.1	4337.0	4286.8
6°	4108.5	4055.4	3997.4	3940.5	3889.1
7°	3698.8	3663.6	3586.8	3509.3	3465.8
8°	3313.6	3256.8	3167.2	3070.2	3033.3
9°	2899.3	2858.7	2755.9	2643.1	2606.2
10°	2523.6	2481.3	2368.1	2242.5	2210.2
11°	2171.2	2131.4	2013.6	1881.7	1847.3
12°	1873.0	1816.6	1681.5	1567.0	1533.4
13°	1576.1	1537.6	1409.4	1296.2	1231.1
14°	1323.6	1291.7	1175.6	1076.1	1007.2
15°	1100.9	1074.8	977.8	880.7	819.4
16°	903.1	887.0	810.3	716.5	666.4
17°	732.7	717.8	668.9	582.6	540.3
18°	591.7	589.7	549.0	474.4	436.6
19°	486.8	486.0	448.7	386.1	355.0
20°	388.5	393.9	365.3	310.6	289.4
21°	316.8	319.7	296.9	255.4	236.4
22°	257.9	260.0	245.1	211.1	200.7
23°	211.5	212.7	200.3	175.0	165.9
24°	174.2	175.0	163.8	146.0	138.1
25°	143.9	144.7	134.4	121.9	115.7
26°	119.4	120.3	111.1	102.4	96.2
27°	99.1	100.8	91.6	86.2	79.6
28°	84.6	85.0	76.7	73.4	67.2
29°	69.2	71.7	64.7	61.8	57.2
30°	59.3	60.5	55.2	53.1	48.9
32.5°	39.4	40.2	37.7	36.1	32.8
35°	26.5	27.0	26.5	24.1	22.0
37.5°	18.2	18.2	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)