

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: P282231

Luminaire Tested: **LDA2B109024D010 EU2B10NFL259024 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282231
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: LDA2B109024D010 EU2B10NFL259024 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 704.3 lumens
Efficiency: N/A
Efficacy: 70.4 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

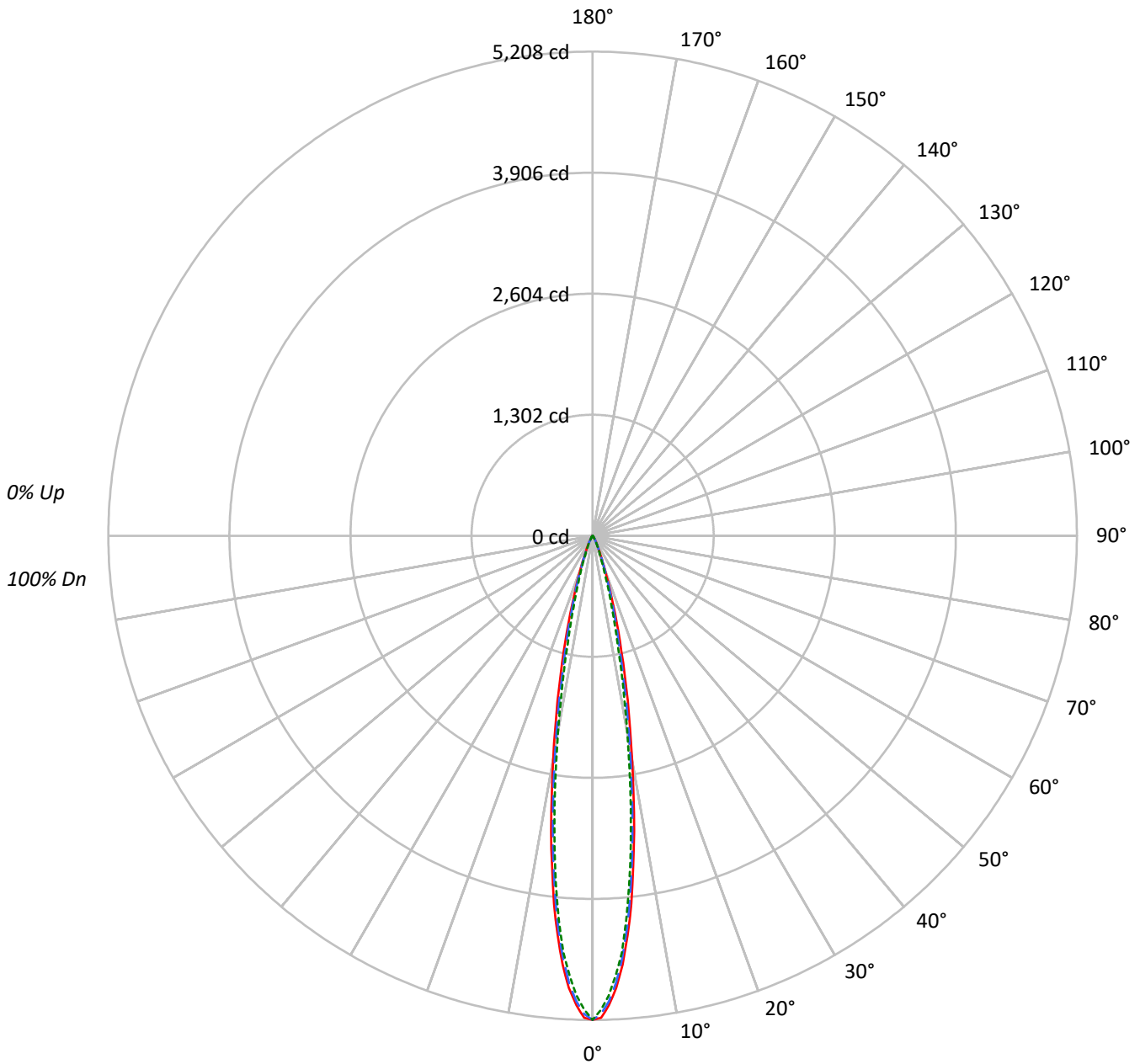
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2569280	2569280	2569280
5°	2137879	2098705	2056362
10°	1224578	1149131	1072482
15°	544681	483746	405344
20°	197567	185754	147164
25°	75884	70822	61023
30°	32700	30421	27003
35°	15479	15479	12829
40°	7728	8050	6440
45°	4465	4186	3907
50°	3070	2763	2763
55°	2408	1720	2064
60°	1973	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°	338.7	48.1
10°-20°	274.1	38.9
20°-30°	66.1	9.4
30°-40°	16.8	2.4
40°-50°	5.0	0.7
50°-60°	2.1	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°	678.9	96.4
0°-40°	695.7	98.8
0°-60°	702.9	99.8
0°-90°	704.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	704.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5208	5208	5208	5208	5208	
5°	4317	4277	4238	4201	4152	349
15°	1066	1041	947	853	794	304
25°	139	140	130	118	112	72
35°	26	26	26	23	21	18
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°	5207.7	5207.7	5207.7	5207.7	5207.7
1°	5184.4	5148.2	5143.8	5166.3	5100.0
2°	5051.8	5026.1	5011.3	5024.5	4949.4
3°	4869.9	4845.0	4818.1	4818.5	4734.6
4°	4622.1	4602.4	4557.0	4543.4	4494.8
5°	4316.8	4277.1	4237.7	4200.8	4152.2
6°	3979.5	3928.1	3871.8	3816.8	3767.0
7°	3582.6	3548.5	3474.2	3399.1	3356.9
8°	3209.5	3154.5	3067.7	2973.8	2938.0
9°	2808.3	2768.9	2669.3	2560.1	2524.3
10°	2444.4	2403.4	2293.8	2172.1	2140.8
11°	2103.0	2064.4	1950.4	1822.7	1789.3
12°	1814.2	1759.6	1628.7	1517.8	1485.3
13°	1526.6	1489.3	1365.2	1255.5	1192.5
14°	1282.0	1251.1	1138.7	1042.3	975.6
15°	1066.4	1041.1	947.1	853.1	793.6
16°	874.8	859.1	784.8	694.0	645.4
17°	709.7	695.2	647.8	564.3	523.3
18°	573.1	571.1	531.8	459.5	422.9
19°	471.5	470.7	434.6	373.9	343.8
20°	376.3	381.6	353.8	300.8	280.3
21°	306.9	309.7	287.6	247.4	228.9
22°	249.8	251.8	237.4	204.4	194.4
23°	204.8	206.0	194.0	169.5	160.7
24°	168.7	169.5	158.6	141.4	133.7
25°	139.4	140.2	130.1	118.1	112.1
26°	115.7	116.5	107.6	99.2	93.2
27°	96.0	97.6	88.8	83.5	77.1
28°	81.9	82.3	74.3	71.1	65.1
29°	67.1	69.5	62.7	59.8	55.4
30°	57.4	58.6	53.4	51.4	47.4
32.5°	38.2	39.0	36.5	34.9	31.7
35°	25.7	26.1	25.7	23.3	21.3
37.5°	17.7	17.7	18.1	15.3	14.5
40°	12.0	12.0	12.5	10.4	10.0
42.5°	8.8	8.8	8.4	7.2	7.2
45°	6.4	6.4	6.0	5.6	5.6
47.5°	5.2	4.8	4.4	4.4	4.4
50°	4.0	4.0	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	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)