

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: P282232

Luminaire Tested: **LDA2B109024D010 EU2B10NFL259024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282232
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 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: 704.7 lumens
Efficiency: N/A
Efficacy: 70.5 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

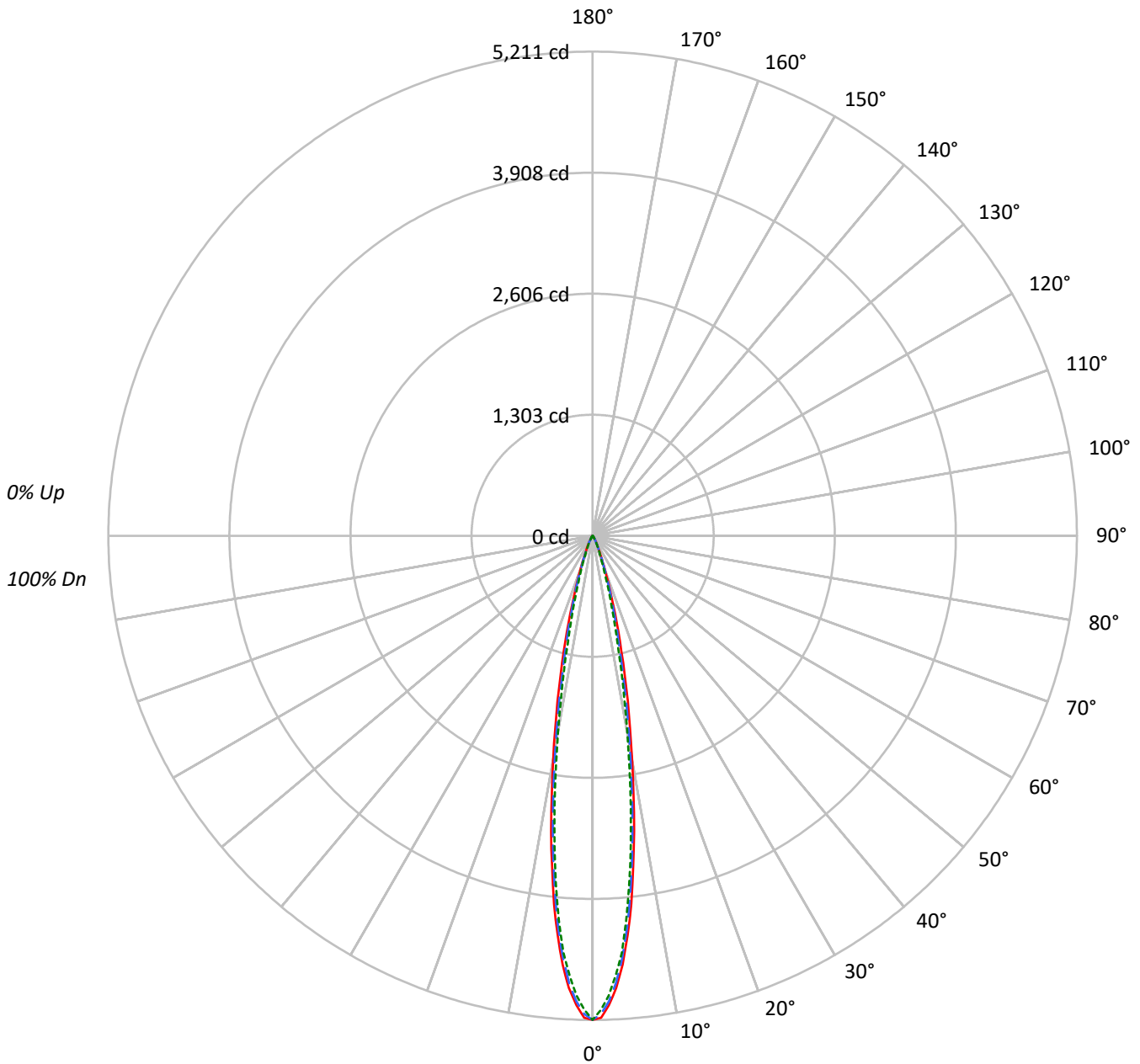
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2570760	2570760	2570760
5°	2139118	2099894	2057501
10°	1225279	1149782	1073083
15°	544987	484002	405599
20°	197724	185859	147269
25°	75884	70876	61023
30°	32757	30421	27003
35°	15479	15479	12829
40°	7793	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°	338.9	48.1
10°-20°	274.3	38.9
20°-30°	66.1	9.4
30°-40°	16.9	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°	679.3	96.4
0°-40°	696.1	98.8
0°-60°	703.3	99.8
0°-90°	704.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	704.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5211	5211	5211	5211	5211	
5°	4319	4280	4240	4203	4154	349
15°	1067	1042	948	854	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°	5210.7	5210.7	5210.7	5210.7	5210.7
1°	5187.3	5151.2	5146.8	5169.3	5103.0
2°	5054.7	5029.0	5014.1	5027.4	4952.3
3°	4872.7	4847.8	4820.8	4821.2	4737.3
4°	4624.7	4605.0	4559.6	4546.0	4497.3
5°	4319.3	4279.5	4240.1	4203.2	4154.5
6°	3981.7	3930.3	3874.0	3819.0	3769.1
7°	3584.7	3550.5	3476.2	3401.0	3358.8
8°	3211.3	3156.3	3069.5	2975.5	2939.7
9°	2809.9	2770.5	2670.8	2561.5	2525.8
10°	2445.8	2404.8	2295.1	2173.3	2142.0
11°	2104.2	2065.6	1951.5	1823.7	1790.3
12°	1815.3	1760.6	1629.6	1518.7	1486.1
13°	1527.5	1490.1	1366.0	1256.2	1193.2
14°	1282.8	1251.8	1139.3	1042.9	976.1
15°	1067.0	1041.6	947.6	853.6	794.1
16°	875.3	859.6	785.3	694.4	645.8
17°	710.1	695.6	648.2	564.6	523.6
18°	573.5	571.5	532.1	459.7	423.2
19°	471.8	471.0	434.8	374.1	344.0
20°	376.6	381.8	354.0	301.0	280.5
21°	307.0	309.8	287.7	247.6	229.1
22°	250.0	252.0	237.5	204.6	194.5
23°	205.0	206.2	194.1	169.6	160.7
24°	168.8	169.6	158.7	141.5	133.8
25°	139.4	140.3	130.2	118.1	112.1
26°	115.7	116.5	107.7	99.3	93.2
27°	96.0	97.7	88.8	83.6	77.2
28°	82.0	82.4	74.3	71.1	65.1
29°	67.1	69.5	62.7	59.9	55.5
30°	57.5	58.7	53.4	51.4	47.4
32.5°	38.2	39.0	36.6	35.0	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°	12.1	12.1	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)