

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: P282262

Luminaire Tested: **LDA2B109050D010 EU2B10NFL259050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282262
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: LDA2B109050D010 EU2B10NFL259050 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: 862.9 lumens
Efficiency: N/A
Efficacy: 86.3 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

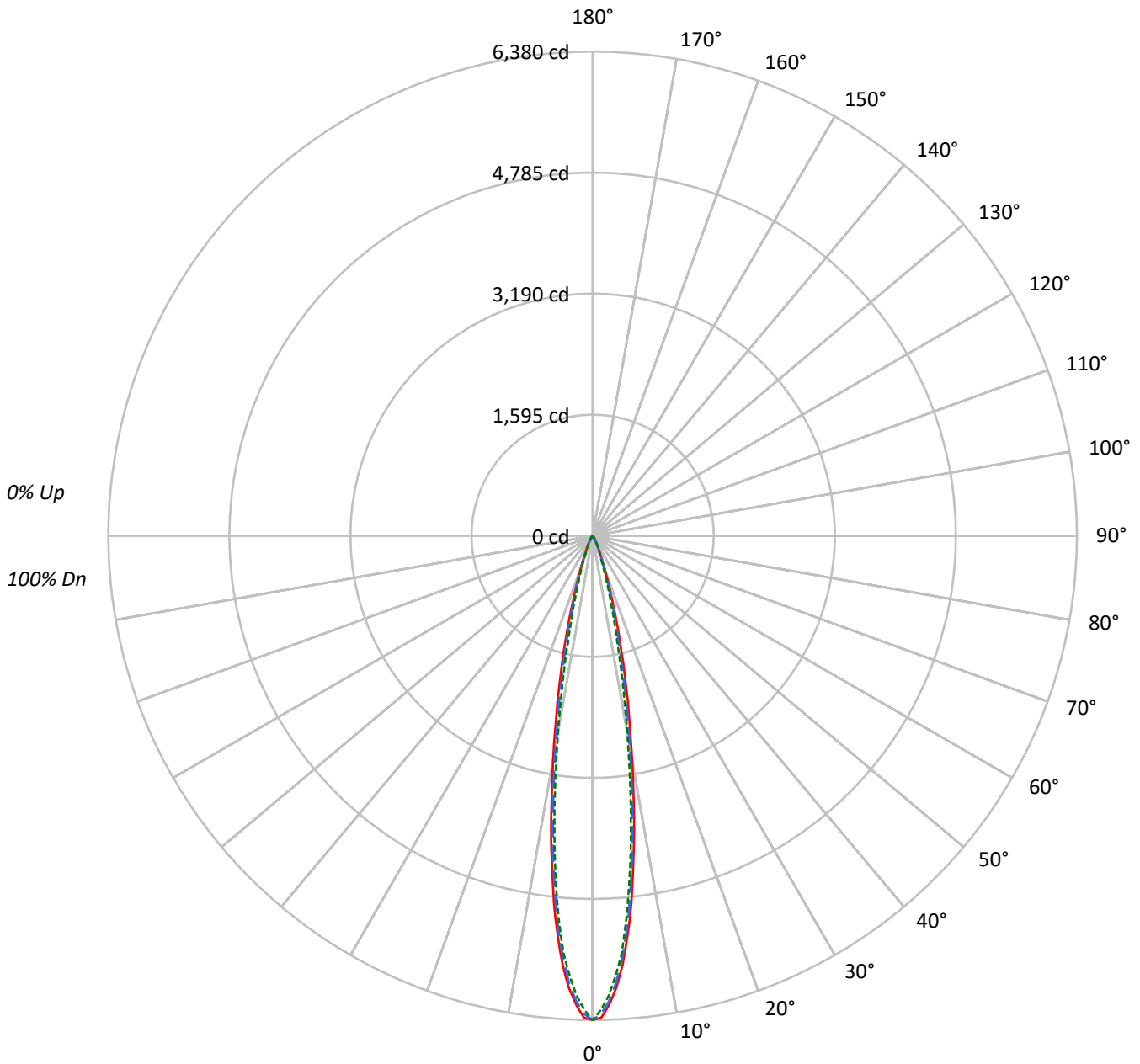
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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°	3147796	3147796	3147796
5°	2619259	2571270	2519368
10°	1500313	1407884	1313951
15°	667315	592641	496617
20°	242089	227598	180346
25°	92977	86772	74741
30°	40106	37257	33099
35°	18972	18972	15720
40°	9532	9854	7922
45°	5512	5163	4814
50°	3761	3377	3377
55°	2925	2150	2580
60°	2467	1480	1973
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	48.1
10°-20°	335.8	38.9
20°-30°	81.0	9.4
30°-40°	20.6	2.4
40°-50°	6.2	0.7
50°-60°	2.6	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	831.8	96.4
0°-40°	852.4	98.8
0°-60°	861.2	99.8
0°-90°	862.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6380	6380	6380	6380	6380	
5°	5289	5240	5192	5147	5087	428
15°	1306	1276	1160	1045	972	373
25°	171	172	159	145	137	88
35°	32	32	32	28	26	22
45°	8	8	7	7	7	7
55°	3	3	2	2	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6380.3	6380.3	6380.3	6380.3	6380.3
1°	6351.7	6307.4	6302.0	6329.6	6248.4
2°	6189.3	6157.9	6139.7	6155.9	6063.9
3°	5966.4	5935.9	5903.0	5903.5	5800.6
4°	5662.8	5638.7	5583.1	5566.4	5506.8
5°	5288.8	5240.1	5191.9	5146.6	5087.1
6°	4875.5	4812.5	4743.6	4676.2	4615.2
7°	4389.3	4347.5	4256.5	4164.5	4112.8
8°	3932.2	3864.8	3758.5	3643.3	3599.5
9°	3440.6	3392.4	3270.3	3136.5	3092.7
10°	2994.8	2944.6	2810.3	2661.2	2622.8
11°	2576.5	2529.3	2389.5	2233.0	2192.2
12°	2222.7	2155.8	1995.4	1859.6	1819.7
13°	1870.4	1824.6	1672.6	1538.2	1461.0
14°	1570.7	1532.8	1395.0	1276.9	1195.3
15°	1306.5	1275.5	1160.3	1045.2	972.3
16°	1071.7	1052.6	961.5	850.3	790.8
17°	869.5	851.8	793.7	691.4	641.2
18°	702.2	699.7	651.5	562.9	518.2
19°	577.7	576.7	532.4	458.1	421.2
20°	461.1	467.5	433.5	368.6	343.5
21°	375.9	379.4	352.3	303.1	280.5
22°	306.1	308.5	290.8	250.5	238.2
23°	251.0	252.4	237.7	207.7	196.8
24°	206.7	207.7	194.4	173.2	163.9
25°	170.8	171.7	159.4	144.7	137.3
26°	141.7	142.7	131.9	121.5	114.2
27°	117.6	119.6	108.7	102.4	94.5
28°	100.4	100.9	91.0	87.1	79.7
29°	82.2	85.1	76.8	73.3	67.9
30°	70.4	71.8	65.4	63.0	58.1
32.5°	46.7	47.7	44.8	42.8	38.9
35°	31.5	32.0	31.5	28.5	26.1
37.5°	21.7	21.7	22.1	18.7	17.7
40°	14.8	14.8	15.3	12.8	12.3
42.5°	10.8	10.8	10.3	8.9	8.9
45°	7.9	7.9	7.4	6.9	6.9
47.5°	6.4	5.9	5.4	5.4	5.4
50°	4.9	4.9	4.4	3.9	4.4
52.5°	3.9	3.9	3.4	3.4	3.4
55°	3.4	3.0	2.5	2.5	3.0
57.5°	2.5	2.5	2.0	2.0	2.5
60°	2.5	2.0	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.0	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)