

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: P282671

Luminaire Tested: **LDA2B108040D010 EU2B10NFL258040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282671
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: LDA2B108040D010 EU2B10NFL258040 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 962.9 lumens
Efficiency: N/A
Efficacy: 96.3 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

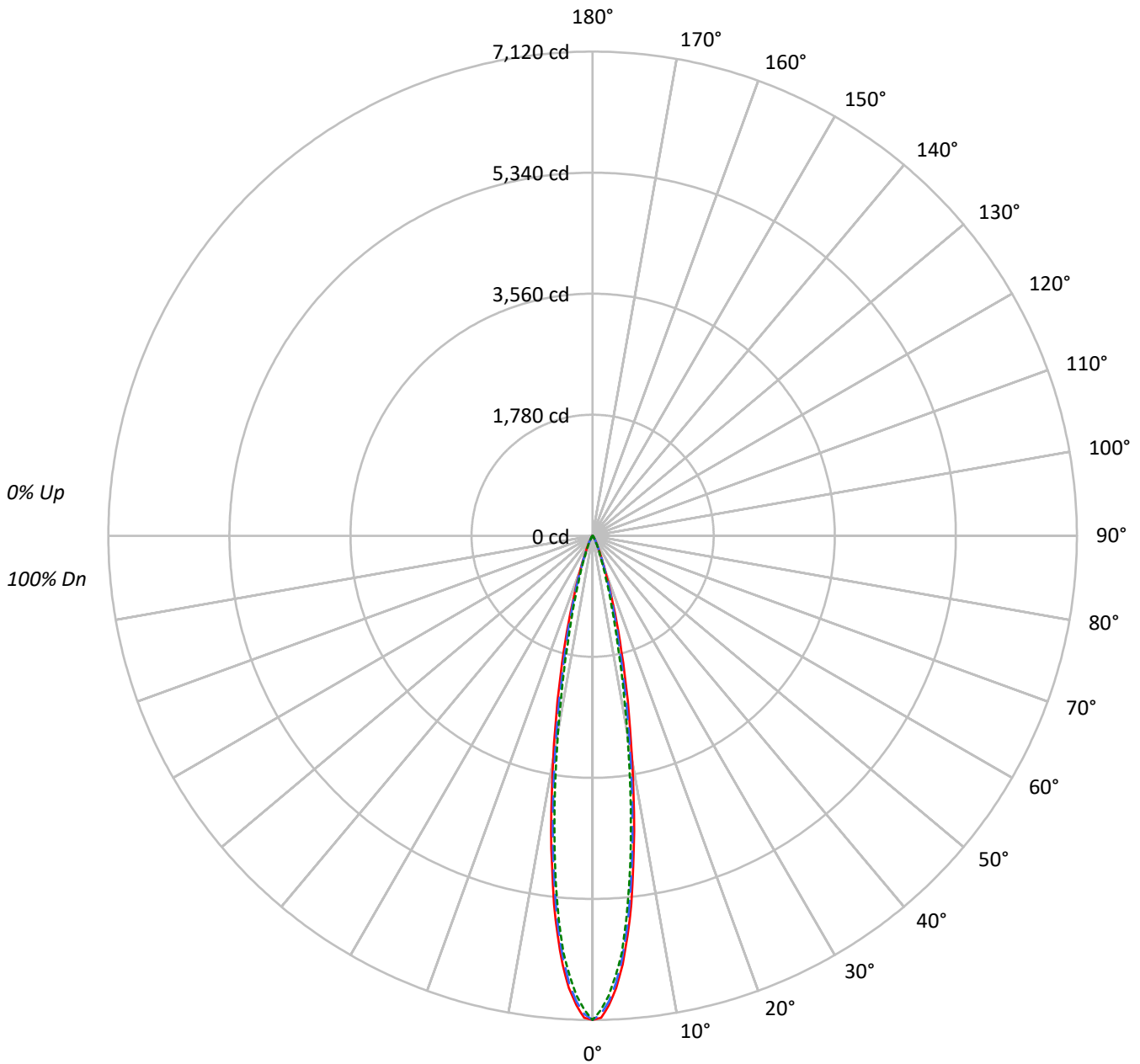
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3512835	3512835	3512835
5°	2923043	2869457	2811563
10°	1674301	1571151	1466347
15°	744696	661391	554232
20°	270178	254007	201242
25°	103756	96842	83397
30°	44720	41587	36916
35°	21140	21140	17526
40°	10627	10949	8823
45°	6140	5721	5372
50°	4221	3761	3761
55°	3269	2322	2838
60°	2664	1579	2171
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.1	48.1
10°-20°	374.8	38.9
20°-30°	90.4	9.4
30°-40°	23.0	2.4
40°-50°	6.9	0.7
50°-60°	2.9	0.3
60°-70°	1.4	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°	928.2	96.4
0°-40°	951.3	98.8
0°-60°	961.0	99.8
0°-90°	962.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7120	7120	7120	7120	7120	
5°	5902	5848	5794	5744	5677	477
15°	1458	1423	1295	1166	1085	416
25°	191	192	178	161	153	98
35°	35	36	35	32	29	24
45°	9	9	8	8	8	7
55°	4	3	3	3	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°	7120.2	7120.2	7120.2	7120.2	7120.2
1°	7088.4	7039.0	7032.9	7063.7	6973.1
2°	6907.2	6872.0	6851.7	6869.8	6767.1
3°	6658.4	6624.4	6587.6	6588.1	6473.3
4°	6319.6	6292.7	6230.6	6211.9	6145.5
5°	5902.2	5847.9	5794.0	5743.5	5677.1
6°	5440.9	5370.7	5293.8	5218.5	5150.4
7°	4898.4	4851.7	4750.1	4647.4	4589.8
8°	4388.2	4313.0	4194.4	4065.9	4017.0
9°	3839.6	3785.8	3649.6	3500.3	3451.4
10°	3342.1	3286.1	3136.2	2969.8	2927.0
11°	2875.3	2822.6	2666.7	2492.0	2446.4
12°	2480.5	2405.8	2226.8	2075.2	2030.7
13°	2087.3	2036.2	1866.5	1716.6	1630.4
14°	1752.9	1710.6	1556.8	1425.0	1333.9
15°	1458.0	1423.4	1294.9	1166.4	1085.1
16°	1196.0	1174.6	1073.0	948.9	882.5
17°	970.3	950.6	885.8	771.6	715.5
18°	783.6	780.9	727.1	628.2	578.3
19°	644.7	643.6	594.2	511.3	470.1
20°	514.6	521.7	483.8	411.3	383.3
21°	419.5	423.4	393.2	338.3	313.0
22°	341.6	344.3	324.5	279.5	265.8
23°	280.1	281.7	265.2	231.7	219.7
24°	230.6	231.7	216.9	193.3	182.9
25°	190.6	191.7	177.9	161.4	153.2
26°	158.2	159.3	147.2	135.6	127.4
27°	131.2	133.4	121.4	114.2	105.4
28°	112.0	112.6	101.6	97.2	89.0
29°	91.7	95.0	85.7	81.8	75.8
30°	78.5	80.2	73.0	70.3	64.8
32.5°	52.2	53.3	50.0	47.8	43.4
35°	35.1	35.7	35.1	31.9	29.1
37.5°	24.2	24.2	24.7	20.9	19.8
40°	16.5	16.5	17.0	14.3	13.7
42.5°	12.1	12.1	11.5	9.9	9.9
45°	8.8	8.8	8.2	7.7	7.7
47.5°	7.1	6.6	6.0	6.0	6.0
50°	5.5	5.5	4.9	4.4	4.9
52.5°	4.4	4.4	3.8	3.8	3.8
55°	3.8	3.3	2.7	2.7	3.3
57.5°	2.7	2.7	2.2	2.2	2.7
60°	2.7	2.2	1.6	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
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°	2.2	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)