

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: P282676

Luminaire Tested: **LDA2B108050D010 EU2B10NFL258050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282676
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: LDA2B108050D010 EU2B10NFL258050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 959.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

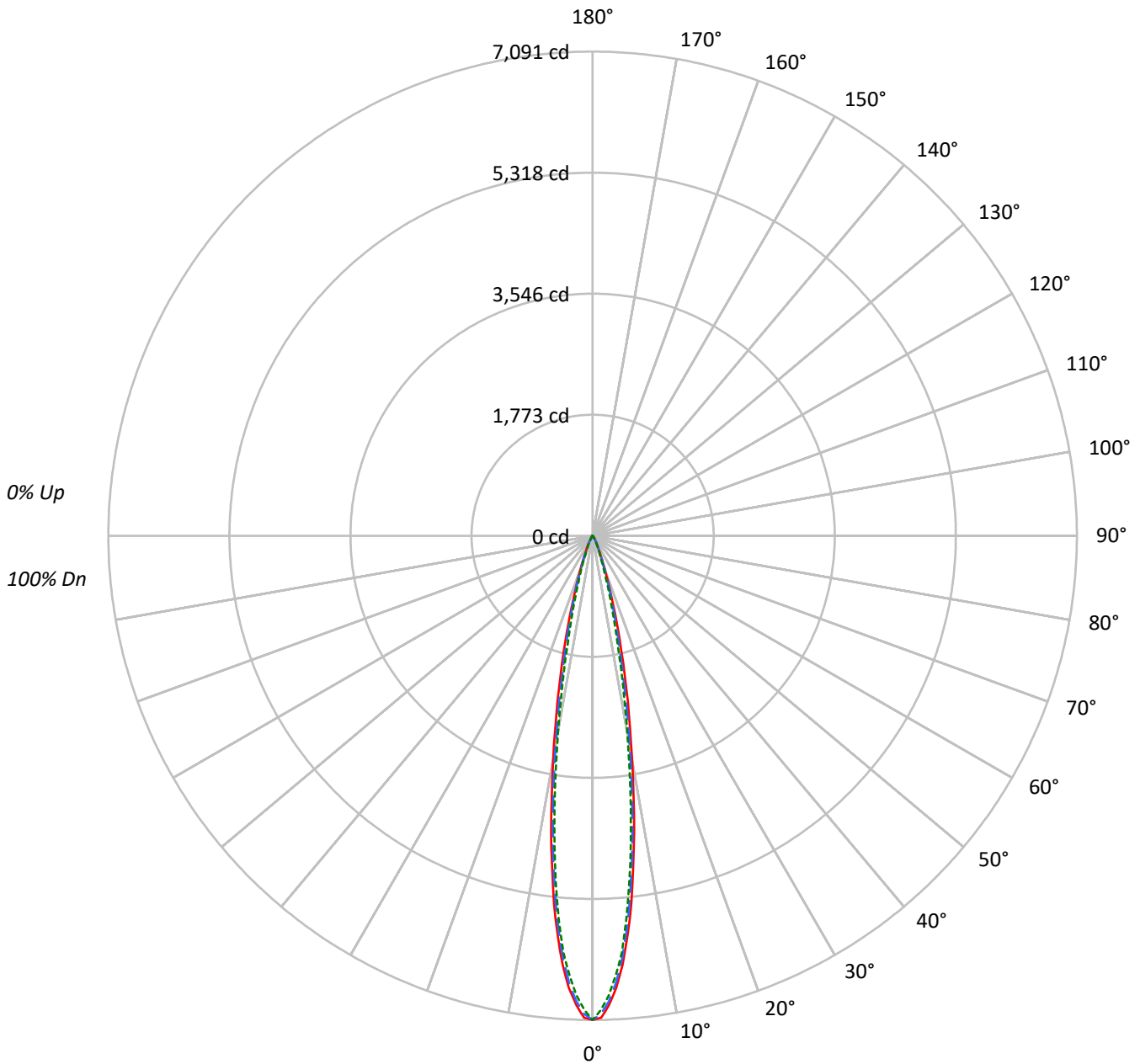
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3498478	3498478	3498478
5°	2911108	2857770	2800073
10°	1667437	1564738	1460335
15°	741632	658683	551985
20°	269023	252957	200402
25°	103320	96461	83070
30°	44549	41416	36745
35°	21080	21080	17466
40°	10562	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°	461.2	48.1
10°-20°	373.2	38.9
20°-30°	90.0	9.4
30°-40°	22.9	2.4
40°-50°	6.8	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°	924.4	96.4
0°-40°	947.4	98.8
0°-60°	957.1	99.8
0°-90°	959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7091	7091	7091	7091	7091	
5°	5878	5824	5770	5720	5654	475
15°	1452	1418	1290	1162	1081	414
25°	190	191	177	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°	7091.1	7091.1	7091.1	7091.1	7091.1
1°	7059.4	7010.2	7004.2	7034.8	6944.5
2°	6878.9	6843.9	6823.7	6841.7	6739.5
3°	6631.2	6597.3	6560.6	6561.2	6446.9
4°	6293.7	6266.9	6205.1	6186.5	6120.4
5°	5878.1	5823.9	5770.4	5720.0	5653.9
6°	5418.7	5348.7	5272.1	5197.2	5129.4
7°	4878.4	4831.9	4730.7	4628.4	4571.0
8°	4370.3	4295.4	4177.2	4049.3	4000.6
9°	3823.9	3770.3	3634.7	3485.9	3437.3
10°	3328.4	3272.7	3123.4	2957.6	2915.0
11°	2863.6	2811.1	2655.8	2481.8	2436.4
12°	2470.4	2396.0	2217.7	2066.7	2022.4
13°	2078.8	2027.9	1858.9	1709.6	1623.7
14°	1745.7	1703.6	1550.5	1419.2	1328.4
15°	1452.0	1417.6	1289.6	1161.6	1080.7
16°	1191.2	1169.8	1068.6	945.0	878.9
17°	966.4	946.7	882.2	768.4	712.6
18°	780.4	777.7	724.1	625.7	575.9
19°	642.1	641.0	591.7	509.2	468.1
20°	512.4	519.6	481.8	409.6	381.7
21°	417.8	421.7	391.6	336.9	311.7
22°	340.2	342.9	323.2	278.4	264.7
23°	278.9	280.6	264.2	230.8	218.8
24°	229.7	230.8	216.0	192.5	182.1
25°	189.8	190.9	177.2	160.8	152.6
26°	157.5	158.6	146.6	135.1	126.9
27°	130.7	132.9	120.9	113.8	105.0
28°	111.6	112.1	101.2	96.8	88.6
29°	91.3	94.6	85.3	81.5	75.5
30°	78.2	79.8	72.7	70.0	64.5
32.5°	52.0	53.0	49.8	47.6	43.2
35°	35.0	35.5	35.0	31.7	29.0
37.5°	24.1	24.1	24.6	20.8	19.7
40°	16.4	16.4	17.0	14.2	13.7
42.5°	12.0	12.0	11.5	9.8	9.8
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)