

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: P282248

Luminaire Tested: **LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282248
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: LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 830.8 lumens
Efficiency: N/A
Efficacy: 83.1 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

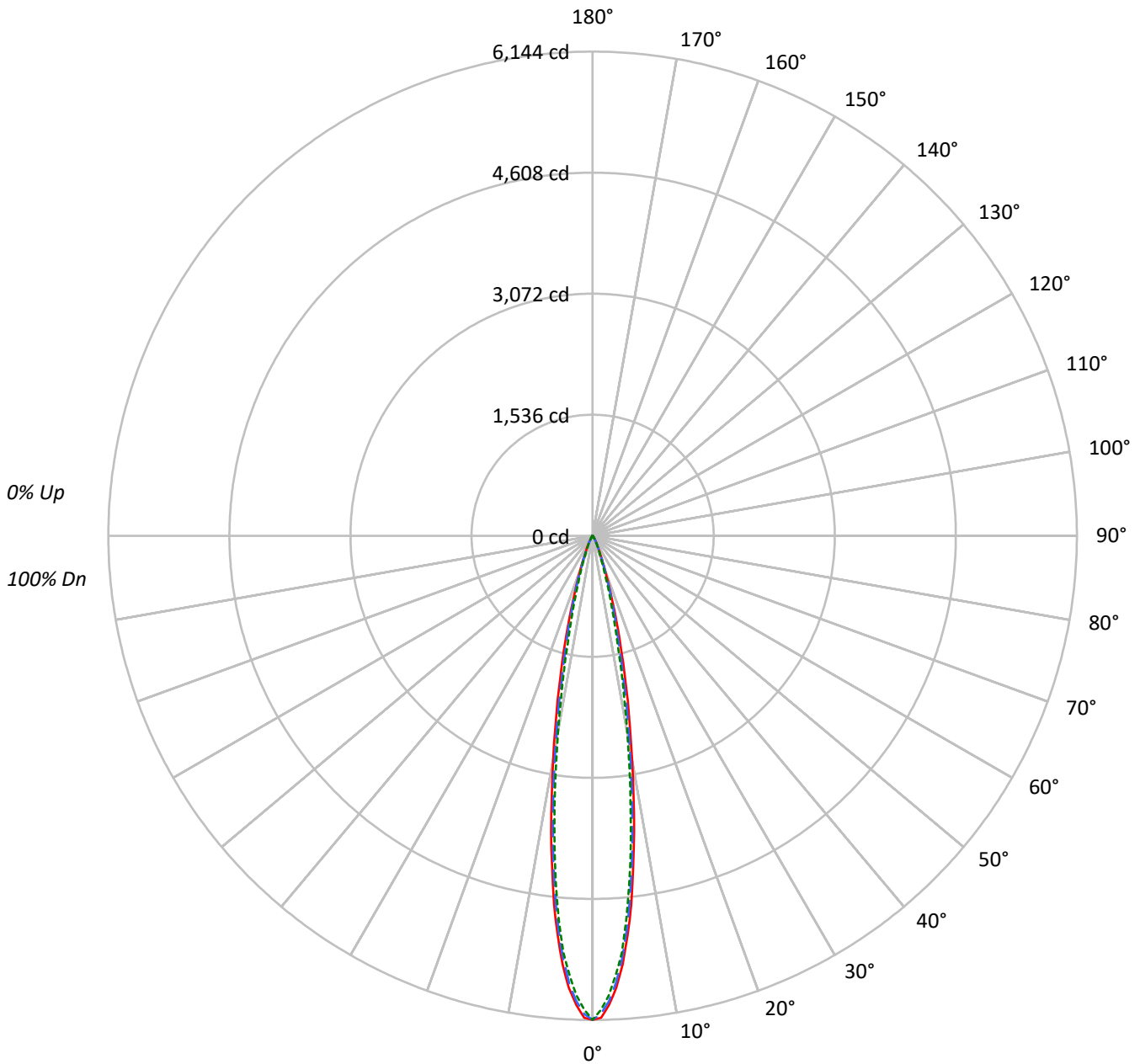
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3030968	3030968	3030968
5°	2522042	2475836	2425865
10°	1444605	1355582	1265156
15°	642543	570627	478230
20°	233111	219145	173626
25°	89494	83560	71965
30°	38625	35890	31845
35°	18249	18249	15117
40°	9145	9467	7600
45°	5303	4954	4605
50°	3607	3300	3300
55°	2838	2064	2408
60°	2368	1381	1875
65°	1634	1051	1634
70°	1298	721	1298
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	48.1
10°-20°	323.3	38.9
20°-30°	78.0	9.4
30°-40°	19.9	2.4
40°-50°	5.9	0.7
50°-60°	2.5	0.3
60°-70°	1.2	0.1
70°-80°	0.4	0.1
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°	800.9	96.4
0°-40°	820.8	98.8
0°-60°	829.2	99.8
0°-90°	830.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	830.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6144	6144	6144	6144	6144	
5°	5092	5046	4999	4956	4898	412
15°	1258	1228	1117	1006	936	359
25°	164	165	154	139	132	85
35°	30	31	30	28	25	21
45°	8	8	7	7	7	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	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°	6143.5	6143.5	6143.5	6143.5	6143.5
1°	6116.0	6073.3	6068.1	6094.6	6016.5
2°	5959.6	5929.3	5911.8	5927.4	5838.8
3°	5745.0	5715.6	5683.9	5684.3	5585.3
4°	5452.6	5429.4	5375.9	5359.8	5302.4
5°	5092.5	5045.6	4999.2	4955.6	4898.3
6°	4694.5	4633.9	4567.6	4502.6	4443.9
7°	4226.4	4186.1	4098.5	4009.9	3960.1
8°	3786.2	3721.3	3619.0	3508.1	3465.9
9°	3312.9	3266.5	3149.0	3020.1	2977.9
10°	2883.6	2835.3	2705.9	2562.4	2525.4
11°	2480.9	2435.4	2300.8	2150.2	2110.8
12°	2140.2	2075.8	1921.3	1790.5	1752.2
13°	1801.0	1756.9	1610.5	1481.1	1406.7
14°	1512.4	1475.9	1343.3	1229.5	1150.9
15°	1258.0	1228.1	1117.2	1006.4	936.3
16°	1032.0	1013.5	925.8	818.7	761.4
17°	837.2	820.2	764.3	665.7	617.4
18°	676.1	673.8	627.3	542.0	498.9
19°	556.3	555.3	512.7	441.1	405.6
20°	444.0	450.1	417.4	354.9	330.7
21°	362.0	365.3	339.2	291.9	270.1
22°	294.7	297.1	280.0	241.2	229.3
23°	241.6	243.1	228.9	199.9	189.5
24°	199.0	199.9	187.2	166.8	157.8
25°	164.4	165.4	153.5	139.3	132.2
26°	136.5	137.4	127.0	117.0	109.9
27°	113.2	115.1	104.7	98.6	91.0
28°	96.7	97.1	87.7	83.9	76.8
29°	79.1	82.0	73.9	70.6	65.4
30°	67.8	69.2	63.0	60.6	55.9
32.5°	45.0	46.0	43.1	41.2	37.4
35°	30.3	30.8	30.3	27.5	25.1
37.5°	20.8	20.8	21.3	18.0	17.1
40°	14.2	14.2	14.7	12.3	11.8
42.5°	10.4	10.4	10.0	8.5	8.5
45°	7.6	7.6	7.1	6.6	6.6
47.5°	6.2	5.7	5.2	5.2	5.2
50°	4.7	4.7	4.3	3.8	4.3
52.5°	3.8	3.8	3.3	3.3	3.3
55°	3.3	2.8	2.4	2.4	2.8
57.5°	2.4	2.4	1.9	1.9	2.4
60°	2.4	1.9	1.4	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.5	0.5	0.9
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°	1.9	1.4	1.4	1.4	1.4
65°	1.4	1.4	0.9	0.9	1.4



(END OF REPORT)