

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: P282123

Luminaire Tested: **LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282123
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: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 722.5 lumens
Efficiency: N/A
Efficacy: 103.2 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

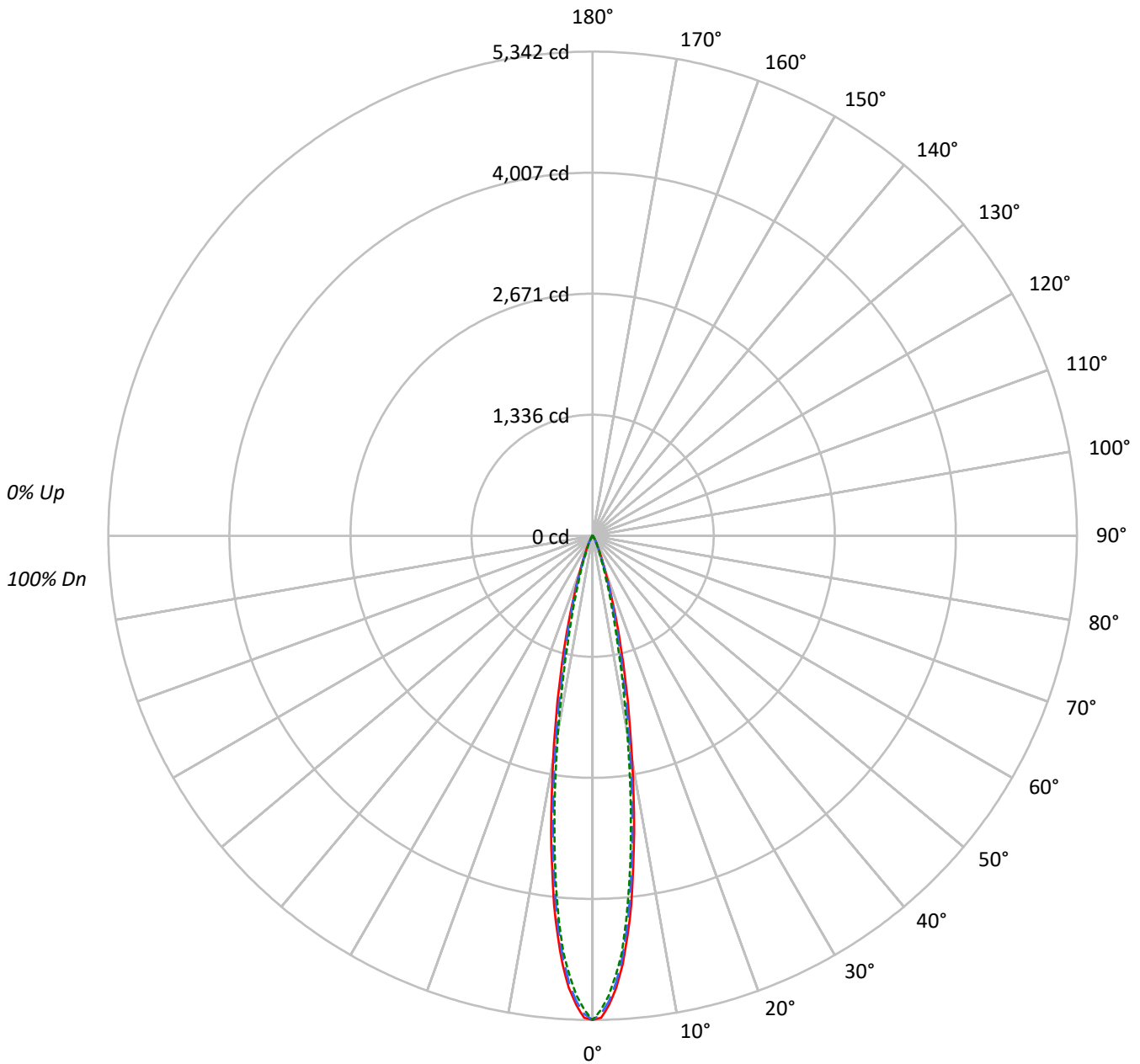
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282123

CATALOG NUMBER: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282123

CATALOG NUMBER: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MB

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°	2635687	2635687	2635687
5°	2193149	2152935	2109502
10°	1256239	1178839	1100186
15°	558727	496209	415865
20°	202712	190584	150997
25°	77844	72673	62602
30°	33554	31219	27687
35°	15900	15900	13130
40°	7986	8244	6634
45°	4605	4326	4047
50°	3147	2840	2840
55°	2494	1806	2150
60°	2072	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282123

CATALOG NUMBER: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	48.1
10°-20°	281.2	38.9
20°-30°	67.8	9.4
30°-40°	17.3	2.4
40°-50°	5.2	0.7
50°-60°	2.2	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°	696.4	96.4
0°-40°	713.7	98.8
0°-60°	721.1	99.8
0°-90°	722.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5342	5342	5342	5342	5342	
5°	4428	4388	4347	4309	4260	358
15°	1094	1068	972	875	814	312
25°	143	144	134	121	115	74
35°	26	27	26	24	22	18
45°	7	7	6	6	6	6
55°	3	2	2	2	2	3
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



TEST NUMBER: P282123

CATALOG NUMBER: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5342.3	5342.3	5342.3	5342.3	5342.3
1°	5318.4	5281.3	5276.7	5299.8	5231.8
2°	5182.4	5156.0	5140.8	5154.4	5077.3
3°	4995.8	4970.2	4942.6	4943.0	4856.9
4°	4741.5	4721.3	4674.8	4660.8	4610.9
5°	4428.4	4387.6	4347.2	4309.3	4259.5
6°	4082.3	4029.6	3971.9	3915.4	3864.3
7°	3675.2	3640.2	3564.0	3486.9	3443.7
8°	3292.5	3236.0	3147.0	3050.6	3013.9
9°	2880.8	2840.5	2738.3	2626.2	2589.6
10°	2507.6	2465.5	2353.1	2228.2	2196.1
11°	2157.3	2117.8	2000.8	1869.8	1835.6
12°	1861.1	1805.1	1670.7	1557.0	1523.7
13°	1566.1	1527.8	1400.5	1288.0	1223.3
14°	1315.2	1283.4	1168.1	1069.2	1000.8
15°	1093.9	1068.0	971.5	875.1	814.2
16°	897.4	881.3	805.1	712.0	662.1
17°	728.0	713.2	664.6	578.9	536.9
18°	588.0	585.9	545.5	471.4	433.9
19°	483.7	482.9	445.8	383.6	352.7
20°	386.1	391.4	363.0	308.6	287.6
21°	314.8	317.7	295.0	253.8	234.9
22°	256.3	258.3	243.5	209.7	199.4
23°	210.1	211.4	199.0	173.9	164.8
24°	173.0	173.9	162.7	145.0	137.2
25°	143.0	143.8	133.5	121.1	115.0
26°	118.7	119.5	110.4	101.8	95.6
27°	98.5	100.1	91.1	85.7	79.1
28°	84.1	84.5	76.2	72.9	66.7
29°	68.8	71.3	64.3	61.4	56.9
30°	58.9	60.2	54.8	52.7	48.6
32.5°	39.1	40.0	37.5	35.8	32.5
35°	26.4	26.8	26.4	23.9	21.8
37.5°	18.1	18.1	18.5	15.7	14.8
40°	12.4	12.4	12.8	10.7	10.3
42.5°	9.1	9.1	8.7	7.4	7.4
45°	6.6	6.6	6.2	5.8	5.8
47.5°	5.4	4.9	4.5	4.5	4.5
50°	4.1	4.1	3.7	3.3	3.7
52.5°	3.3	3.3	2.9	2.9	2.9
55°	2.9	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.6	1.6	2.1
60°	2.1	1.6	1.2	1.6	1.6



TEST NUMBER: P282123

CATALOG NUMBER: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MB

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



Report Generated By E9808895 / USPTCWHP6082093





— 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)