

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: P282641

Luminaire Tested: **LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282641
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: LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 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: 543.2 lumens
Efficiency: N/A
Efficacy: 77.6 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

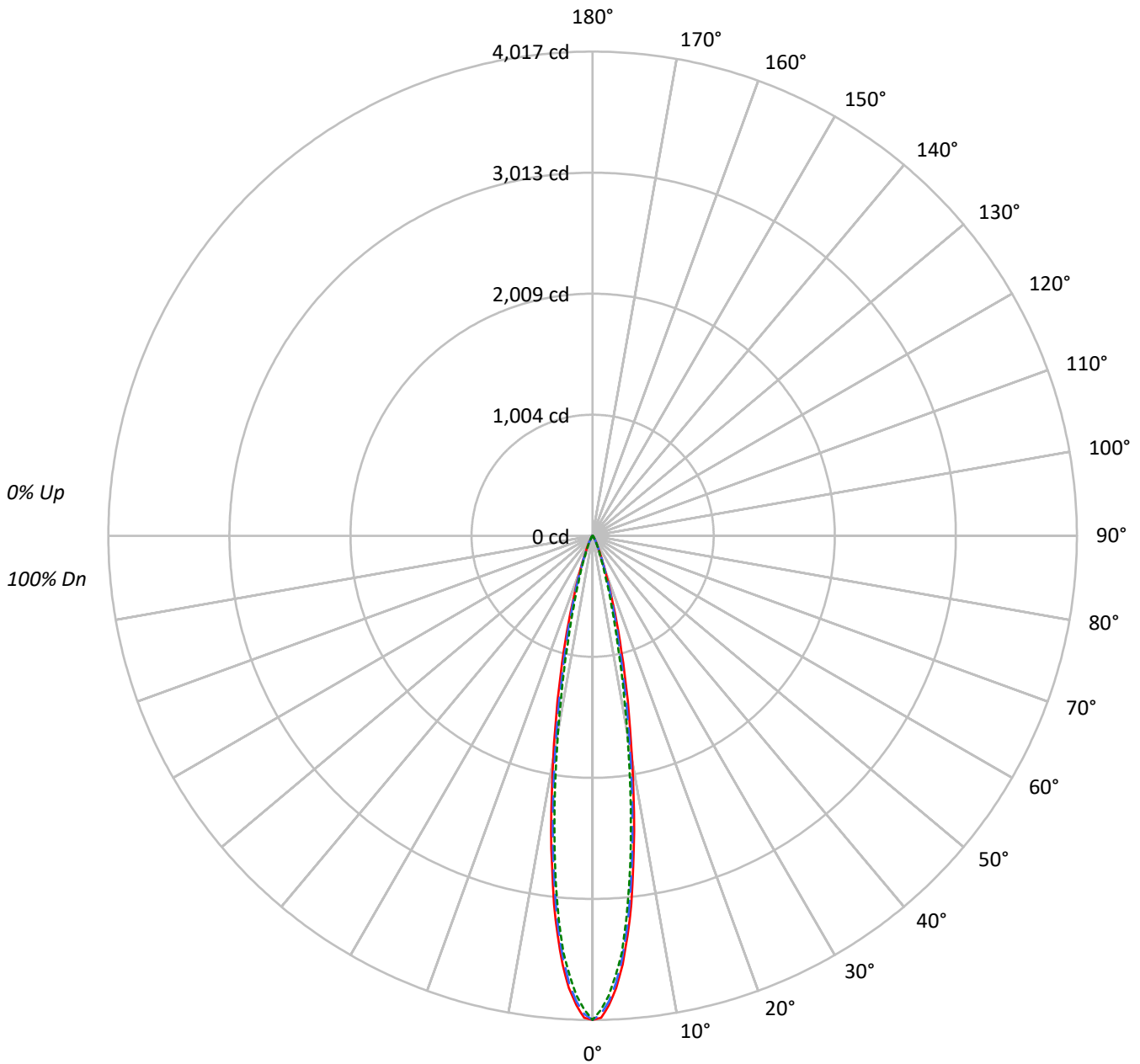
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282641

CATALOG NUMBER: LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P282641

CATALOG NUMBER: LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MW

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	89	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°	1981736	1981736	1981736
5°	1648972	1618762	1586076
10°	944534	886321	827206
15°	420105	373114	312640
20°	152415	143279	113510
25°	58519	54654	47033
30°	25237	23471	20850
35°	11925	11925	9877
40°	5990	6183	4959
45°	3489	3210	3000
50°	2379	2149	2149
55°	1892	1290	1634
60°	1480	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282641

CATALOG NUMBER: LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	48.1
10°-20°	211.4	38.9
20°-30°	51.0	9.4
30°-40°	13.0	2.4
40°-50°	3.9	0.7
50°-60°	1.6	0.3
60°-70°	0.8	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°	523.6	96.4
0°-40°	536.6	98.8
0°-60°	542.2	99.8
0°-90°	543.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4017	4017	4017	4017	4017	
5°	3330	3299	3269	3240	3203	269
15°	822	803	730	658	612	235
25°	108	108	100	91	86	56
35°	20	20	20	18	16	14
45°	5	5	5	4	4	4
55°	2	2	2	2	2	2
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: P282641

CATALOG NUMBER: LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4016.8	4016.8	4016.8	4016.8	4016.8
1°	3998.8	3970.9	3967.5	3984.9	3933.7
2°	3896.6	3876.7	3865.3	3875.5	3817.6
3°	3756.2	3737.0	3716.3	3716.6	3651.8
4°	3565.1	3549.9	3514.9	3504.4	3466.9
5°	3329.6	3299.0	3268.6	3240.1	3202.6
6°	3069.4	3029.8	2986.4	2944.0	2905.5
7°	2763.3	2737.0	2679.7	2621.8	2589.2
8°	2475.5	2433.1	2366.2	2293.7	2266.1
9°	2166.1	2135.7	2058.9	1974.6	1947.0
10°	1885.4	1853.8	1769.2	1675.4	1651.2
11°	1622.1	1592.3	1504.3	1405.8	1380.1
12°	1399.3	1357.2	1256.2	1170.7	1145.6
13°	1177.5	1148.7	1053.0	968.4	919.8
14°	988.9	965.0	878.3	803.9	752.5
15°	822.5	803.0	730.5	658.0	612.1
16°	674.7	662.6	605.3	535.3	497.8
17°	547.4	536.2	499.7	435.3	403.7
18°	442.1	440.5	410.2	354.4	326.2
19°	363.7	363.1	335.2	288.4	265.2
20°	290.3	294.3	272.9	232.0	216.2
21°	236.7	238.8	221.8	190.8	176.6
22°	192.7	194.2	183.1	157.7	149.9
23°	158.0	158.9	149.6	130.7	123.9
24°	130.1	130.7	122.4	109.0	103.2
25°	107.5	108.1	100.4	91.1	86.4
26°	89.2	89.8	83.0	76.5	71.9
27°	74.0	75.3	68.5	64.4	59.5
28°	63.2	63.5	57.3	54.8	50.2
29°	51.7	53.6	48.3	46.2	42.8
30°	44.3	45.2	41.2	39.7	36.6
32.5°	29.4	30.0	28.2	27.0	24.5
35°	19.8	20.1	19.8	18.0	16.4
37.5°	13.6	13.6	13.9	11.8	11.2
40°	9.3	9.3	9.6	8.1	7.7
42.5°	6.8	6.8	6.5	5.6	5.6
45°	5.0	5.0	4.6	4.3	4.3
47.5°	4.0	3.7	3.4	3.4	3.4
50°	3.1	3.1	2.8	2.5	2.8
52.5°	2.5	2.5	2.2	2.2	2.2
55°	2.2	1.9	1.5	1.5	1.9
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	1.2	0.9	1.2	1.2



TEST NUMBER: P282641

CATALOG NUMBER: LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)