

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: P282725

Luminaire Tested: **LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282725
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: LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 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: 982.0 lumens
Efficiency: N/A
Efficacy: 69.6 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

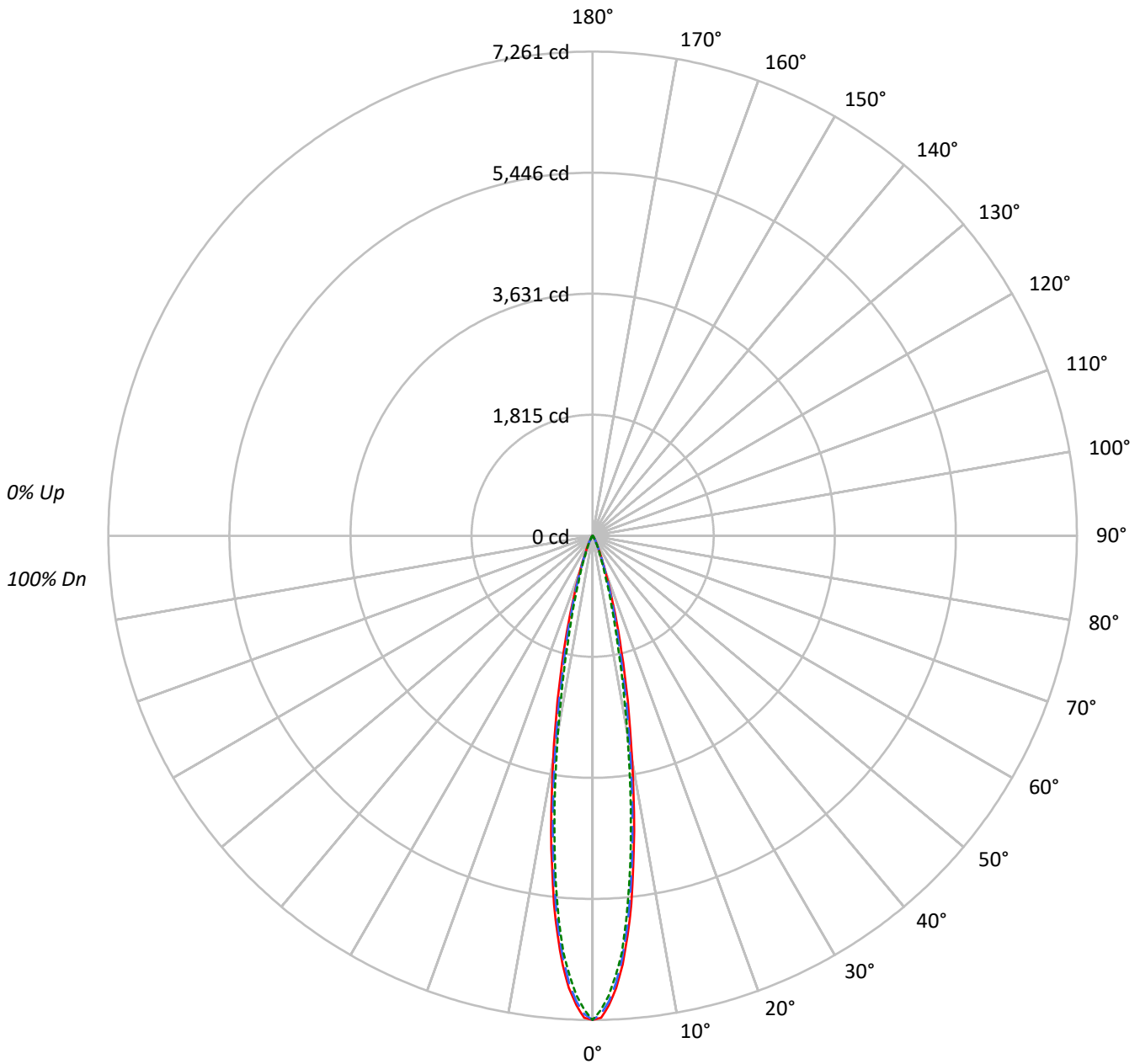
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282725

CATALOG NUMBER: LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P282725

CATALOG NUMBER: LDA2B159030D010 EU2B15NFL259030 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	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°	3582349	3582349	3582349
5°	2980888	2926213	2867179
10°	1707415	1602211	1495303
15°	759406	674466	565213
20°	275480	259047	205232
25°	105770	98748	85030
30°	45632	42442	37656
35°	21562	21562	17888
40°	10820	11206	9017
45°	6279	5861	5442
50°	4298	3838	3838
55°	3355	2408	2925
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282725

CATALOG NUMBER: LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	48.1
10°-20°	382.2	38.9
20°-30°	92.2	9.4
30°-40°	23.5	2.4
40°-50°	7.0	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	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°	946.6	96.4
0°-40°	970.1	98.8
0°-60°	980.1	99.8
0°-90°	982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7261	7261	7261	7261	7261	
5°	6019	5964	5909	5857	5789	487
15°	1487	1452	1320	1190	1107	424
25°	194	195	181	165	156	100
35°	36	36	36	32	30	25
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282725

CATALOG NUMBER: LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7261.1	7261.1	7261.1	7261.1	7261.1
1°	7228.6	7178.2	7172.0	7203.4	7111.0
2°	7043.8	7007.9	6987.2	7005.7	6901.0
3°	6790.1	6755.4	6717.9	6718.4	6601.4
4°	6444.6	6417.1	6353.9	6334.8	6267.1
5°	6019.0	5963.5	5908.6	5857.1	5789.4
6°	5548.6	5476.9	5398.5	5321.8	5252.3
7°	4995.3	4947.7	4844.1	4739.3	4680.5
8°	4475.0	4398.3	4277.3	4146.3	4096.5
9°	3915.6	3860.7	3721.8	3569.5	3519.7
10°	3408.2	3351.1	3198.2	3028.5	2984.8
11°	2932.2	2878.4	2719.4	2541.3	2494.8
12°	2529.6	2453.4	2270.8	2116.3	2070.9
13°	2128.6	2076.5	1903.5	1750.6	1662.7
14°	1787.5	1744.4	1587.6	1453.2	1360.3
15°	1486.8	1451.5	1320.5	1189.5	1106.6
16°	1219.7	1197.9	1094.3	967.7	899.9
17°	989.5	969.4	903.3	786.8	729.7
18°	799.1	796.3	741.5	640.6	589.7
19°	657.4	656.3	605.9	521.4	479.4
20°	524.7	532.0	493.4	419.4	390.9
21°	427.8	431.8	401.0	345.0	319.2
22°	348.3	351.1	331.0	285.0	271.0
23°	285.6	287.3	270.5	236.3	224.0
24°	235.2	236.3	221.2	197.1	186.5
25°	194.3	195.4	181.4	164.6	156.2
26°	161.3	162.4	150.1	138.3	129.9
27°	133.8	136.1	123.8	116.5	107.5
28°	114.2	114.8	103.6	99.1	90.7
29°	93.5	96.9	87.4	83.4	77.3
30°	80.1	81.8	74.5	71.7	66.1
32.5°	53.2	54.3	51.0	48.7	44.2
35°	35.8	36.4	35.8	32.5	29.7
37.5°	24.6	24.6	25.2	21.3	20.2
40°	16.8	16.8	17.4	14.6	14.0
42.5°	12.3	12.3	11.8	10.1	10.1
45°	9.0	9.0	8.4	7.8	7.8
47.5°	7.3	6.7	6.2	6.2	6.2
50°	5.6	5.6	5.0	4.5	5.0
52.5°	4.5	4.5	3.9	3.9	3.9
55°	3.9	3.4	2.8	2.8	3.4
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



TEST NUMBER: P282725

CATALOG NUMBER: LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)