

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: P282741

Luminaire Tested: **LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282741
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: LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 888.6 lumens
Efficiency: N/A
Efficacy: 63.0 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

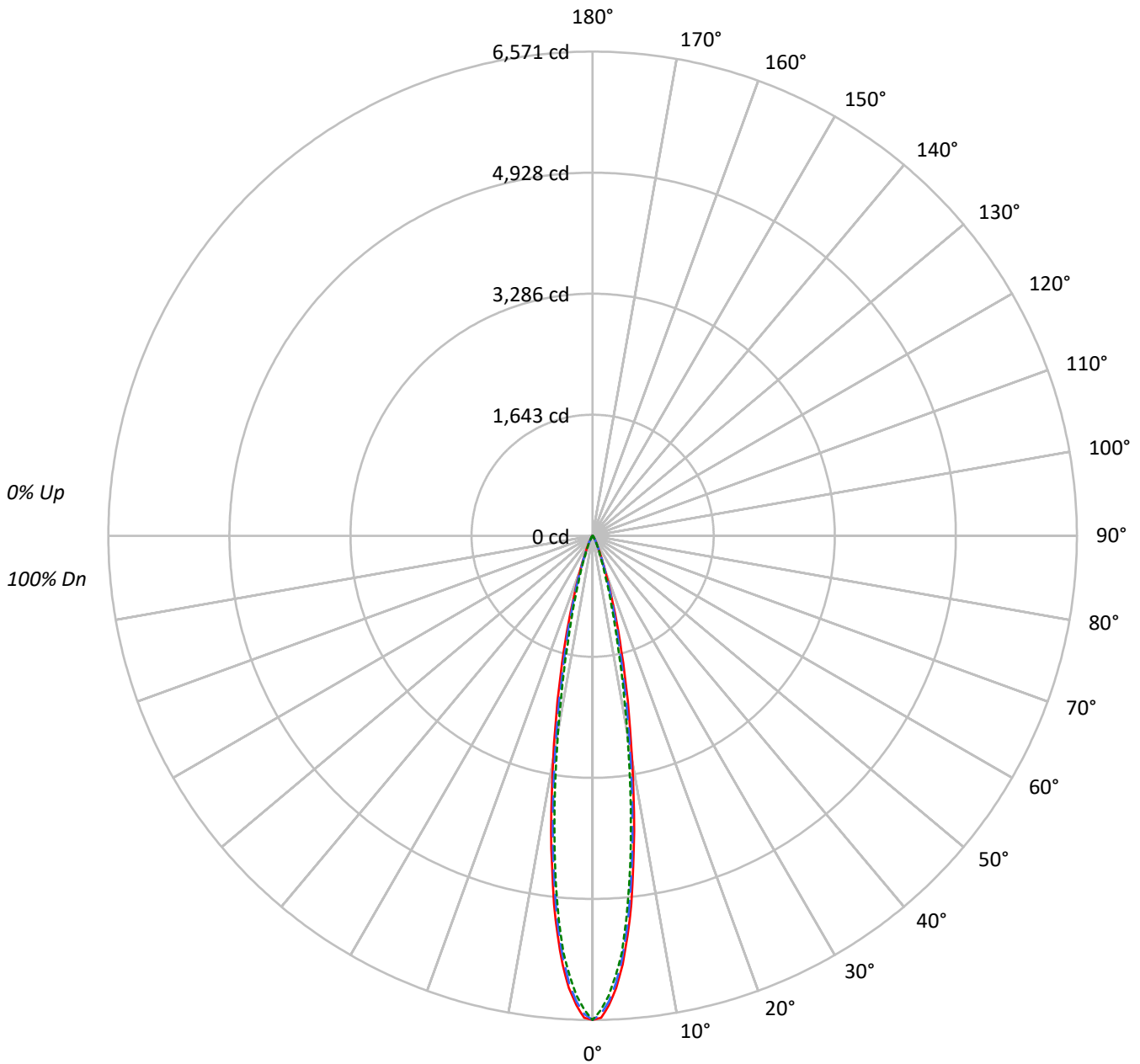
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282741

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282741

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MB

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°	3241930	3241930	3241930
5°	2697607	2648181	2594695
10°	1545150	1449965	1353227
15°	687235	610365	511481
20°	249334	234424	185701
25°	95754	89385	76973
30°	41302	38397	34067
35°	19514	19514	16201
40°	9789	10111	8179
45°	5652	5303	4954
50°	3914	3531	3531
55°	3011	2150	2580
60°	2467	1480	1973
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282741

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.4	48.1
10°-20°	345.9	38.9
20°-30°	83.4	9.4
30°-40°	21.3	2.4
40°-50°	6.3	0.7
50°-60°	2.7	0.3
60°-70°	1.3	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°	856.6	96.4
0°-40°	877.9	98.8
0°-60°	886.9	99.8
0°-90°	888.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6571	6571	6571	6571	6571	
5°	5447	5397	5347	5300	5239	440
15°	1346	1314	1195	1076	1001	384
25°	176	177	164	149	141	91
35°	32	33	32	29	27	22
45°	8	8	8	7	7	7
55°	4	3	2	2	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	



TEST NUMBER: P282741

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6571.1	6571.1	6571.1	6571.1	6571.1
1°	6541.7	6496.1	6490.5	6518.9	6435.2
2°	6374.4	6342.0	6323.2	6340.0	6245.2
3°	6144.8	6113.4	6079.5	6080.0	5974.1
4°	5832.2	5807.3	5750.1	5732.8	5671.5
5°	5447.0	5396.8	5347.2	5300.5	5239.2
6°	5021.3	4956.4	4885.5	4816.0	4753.2
7°	4520.6	4477.5	4383.7	4289.0	4235.8
8°	4049.8	3980.3	3870.9	3752.3	3707.2
9°	3543.5	3493.8	3368.1	3230.3	3185.2
10°	3084.3	3032.6	2894.3	2740.7	2701.2
11°	2653.6	2604.9	2461.0	2299.8	2257.8
12°	2289.2	2220.3	2055.0	1915.2	1874.1
13°	1926.3	1879.2	1722.6	1584.2	1504.7
14°	1617.7	1578.7	1436.8	1315.1	1231.0
15°	1345.5	1313.6	1195.0	1076.4	1001.4
16°	1103.8	1084.0	990.3	875.7	814.4
17°	895.5	877.3	817.5	712.0	660.3
18°	723.2	720.7	671.0	579.8	533.7
19°	595.0	594.0	548.3	471.8	433.8
20°	474.9	481.5	446.5	379.6	353.7
21°	387.2	390.7	362.9	312.2	288.9
22°	315.2	317.8	299.5	258.0	245.3
23°	258.5	260.0	244.8	213.9	202.7
24°	212.9	213.9	200.2	178.4	168.8
25°	175.9	176.9	164.2	149.0	141.4
26°	146.0	147.0	135.8	125.2	117.6
27°	121.1	123.2	112.0	105.4	97.3
28°	103.4	103.9	93.8	89.7	82.1
29°	84.6	87.7	79.1	75.5	69.9
30°	72.5	74.0	67.4	64.9	59.8
32.5°	48.1	49.2	46.1	44.1	40.0
35°	32.4	32.9	32.4	29.4	26.9
37.5°	22.3	22.3	22.8	19.3	18.2
40°	15.2	15.2	15.7	13.2	12.7
42.5°	11.1	11.1	10.6	9.1	9.1
45°	8.1	8.1	7.6	7.1	7.1
47.5°	6.6	6.1	5.6	5.6	5.6
50°	5.1	5.1	4.6	4.1	4.6
52.5°	4.1	4.1	3.5	3.5	3.5
55°	3.5	3.0	2.5	2.5	3.0
57.5°	2.5	2.5	2.0	2.0	2.5
60°	2.5	2.0	1.5	2.0	2.0



TEST NUMBER: P282741

CATALOG NUMBER: LDA2B159730D010 EU2B15NFL259730 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	2.0	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)