

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: P314810

Luminaire Tested: **LDA2B15SP9030D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B15SP9030D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus black finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1161.2 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

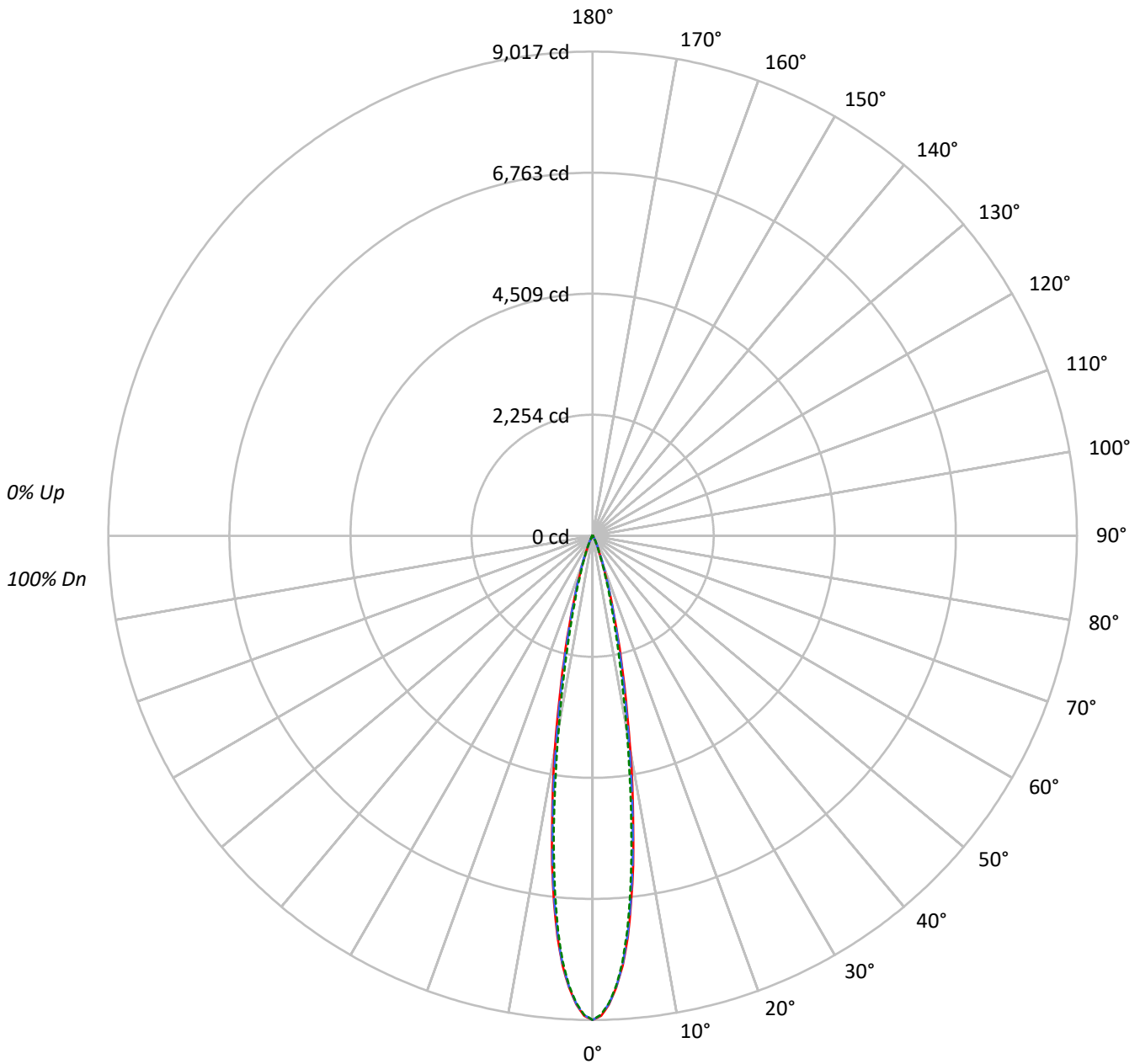
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P314810

CATALOG NUMBER: LDA2B15SP9030D010 PIN1MB

Luminous Intensity Polar Plot





TEST NUMBER: P314810

CATALOG NUMBER: LDA2B15SP9030D010 PIN1MB

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	101	101	100	98	99	98	96	95				95															
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93				93															
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91				91															
5	104	99	95	92	103	98	95	92	96	93	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	88	92	90	88	87				87															
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85				85															
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84				84															
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82				82															
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81				81															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4448841	4448841	4448841
5°	3716774	3698995	3655215
10°	2025032	1946129	1821587
15°	802822	782391	671606
20°	269758	288239	238204
25°	93631	101143	89875
30°	34238	37371	36574
35°	22044	25778	19574
40°	11593	13782	14233
45°	10605	8163	7675
50°	6371	4221	3147
55°	0	0	0
60°	4046	4046	1381
65°	3269	817	0
70°	0	3029	4039
75°	0	6672	0
80°	0	0	0
85°	0	3962	0



TEST NUMBER: P314810

CATALOG NUMBER: LDA2B15SP9030D010 PIN1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.6	50.8
10°-20°	438.8	37.8
20°-30°	97.1	8.4
30°-40°	21.6	1.9
40°-50°	8.8	0.8
50°-60°	1.5	0.1
60°-70°	1.5	0.1
70°-80°	1.2	0.1
80°-90°	1.1	0.1
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°	1125.5	96.9
0°-40°	1147.0	98.8
0°-60°	1157.3	99.7
0°-90°	1161.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9017	9017	9017	9017	9017	
5°	7505	7474	7469	7441	7381	598
15°	1572	1567	1532	1389	1315	462
25°	172	192	186	172	165	94
35°	37	37	43	34	32	21
45°	15	12	12	12	11	9
55°	0	0	0	0	0	2
65°	3	1	1	0	0	3
75°	0	0	4	0	0	1
85°	0	1	1	2	0	0
90°	0	0	0	0	0	



TEST NUMBER: P314810

CATALOG NUMBER: LDA2B15SP9030D010 PIN1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9017.4	9017.4	9017.4	9017.4	9017.4
1°	8943.5	8906.9	8924.9	8935.2	8920.0
2°	8734.9	8690.7	8719.1	8721.8	8706.6
3°	8424.2	8404.1	8413.1	8416.6	8386.2
4°	8026.4	7997.4	8003.6	7996.0	7958.7
5°	7504.9	7473.9	7469.0	7440.7	7380.6
6°	6867.5	6849.6	6817.1	6768.7	6688.6
7°	6184.5	6170.0	6114.0	6027.0	5934.5
8°	5435.9	5435.9	5355.1	5234.9	5129.2
9°	4727.3	4701.0	4598.1	4453.1	4350.9
10°	4042.2	4007.0	3884.7	3737.6	3636.1
11°	3393.7	3356.4	3239.0	3088.4	2994.5
12°	2833.6	2813.6	2722.4	2556.7	2462.7
13°	2360.5	2334.3	2254.2	2097.4	2017.3
14°	1948.2	1915.1	1850.9	1707.2	1629.2
15°	1571.8	1567.0	1531.8	1388.8	1314.9
16°	1284.5	1281.8	1248.6	1109.1	1078.7
17°	1031.1	1045.6	1035.9	907.5	872.9
18°	802.5	831.5	838.4	722.4	687.9
19°	645.7	673.4	685.1	583.6	554.6
20°	513.8	540.1	549.0	473.1	453.7
22.5°	291.4	326.7	328.0	288.7	268.7
25°	172.0	192.0	185.8	172.0	165.1
26°	144.3	163.7	154.0	149.9	144.3
27°	121.5	134.7	127.1	120.2	125.0
28°	100.8	109.8	102.2	104.3	96.7
29°	80.1	95.3	84.3	86.3	80.1
30°	60.1	73.9	65.6	69.1	64.2
32.5°	44.9	49.0	43.5	49.0	49.0
35°	36.6	36.6	42.8	34.5	32.5
37.5°	16.6	13.1	14.5	11.7	13.8
40°	18.0	20.0	21.4	18.0	22.1
42.5°	12.4	16.6	16.6	11.0	19.3
45°	15.2	12.4	11.7	11.7	11.0
47.5°	6.9	4.8	5.5	6.2	9.7
50°	8.3	3.5	5.5	8.3	4.1
52.5°	2.8	0.0	3.5	0.0	1.4
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.7	1.4	0.0
60°	4.1	4.8	4.1	2.8	1.4
62.5°	6.9	1.4	2.1	2.8	0.0
65°	2.8	1.4	0.7	0.0	0.0
67.5°	0.0	0.0	2.1	0.0	0.0



TEST NUMBER: P314810

CATALOG NUMBER: LDA2B15SP9030D010 PIN1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.5	0.0	0.0
77.5°	1.4	0.0	2.8	0.0	0.0
80°	0.0	1.4	0.0	0.0	0.0
82.5°	0.0	0.0	3.5	2.8	0.0
85°	0.0	0.7	0.7	2.1	0.0
87.5°	0.0	2.1	2.8	0.7	1.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







70°	0.0	0.0	2.1	1.4	2.8
72.5°	0.0	0.7	2.8	4.1	1.4



(END OF REPORT)