

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: P314792

Luminaire Tested: **LDA2B15SP8030D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314792
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: LDA2B15SP8030D010 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: 1439.6 lumens
Efficiency: N/A
Efficacy: 102.1 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

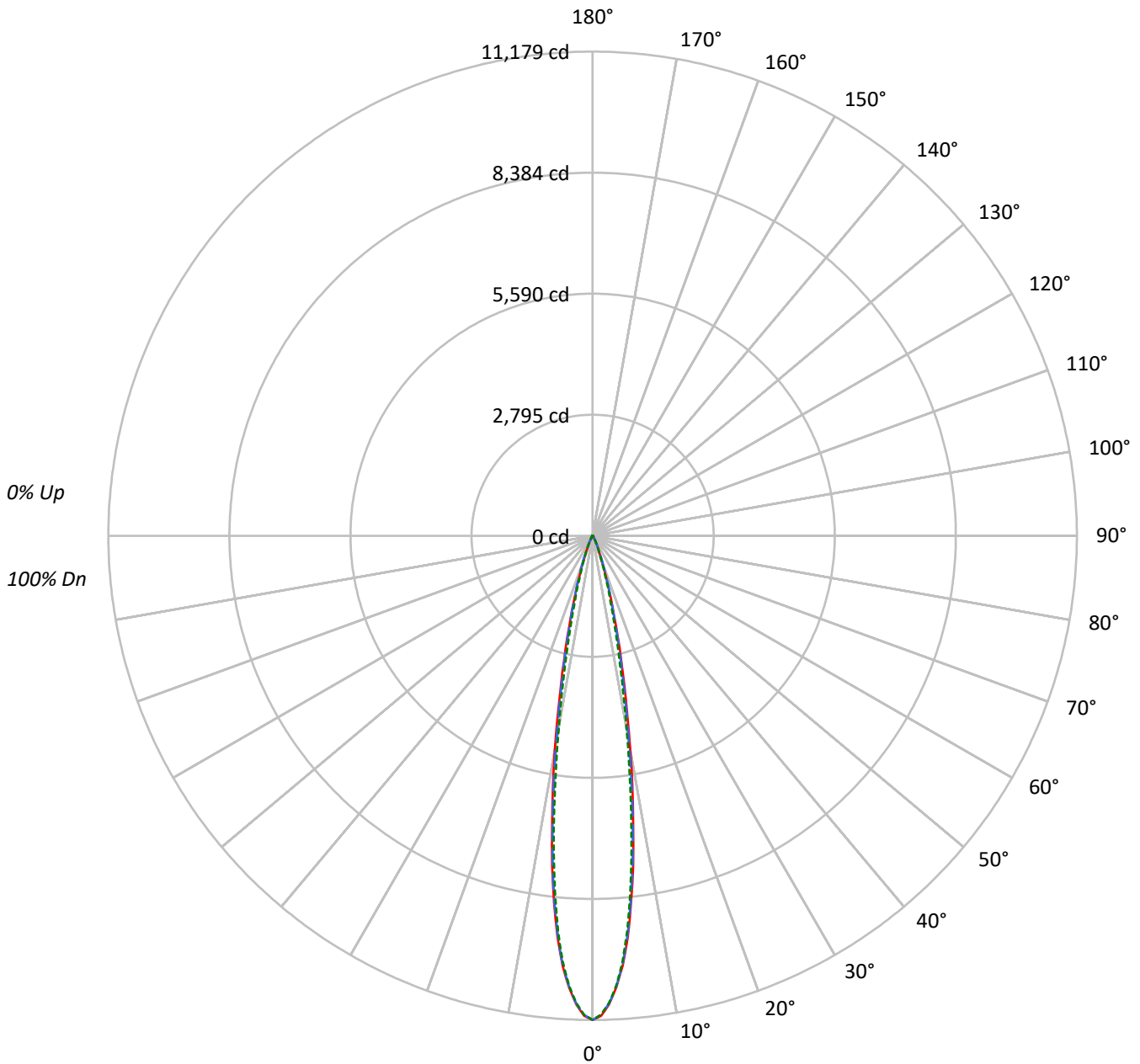
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P314792

CATALOG NUMBER: LDA2B15SP8030D010 PIN1MB

Luminous Intensity Polar Plot





TEST NUMBER: P314792

CATALOG NUMBER: LDA2B15SP8030D010 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	94	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	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°	5515489	5515489	5515489
5°	4607921	4585882	4531603
10°	2510524	2412735	2258335
15°	995329	969995	832650
20°	334441	357384	295326
25°	116059	125367	111377
30°	42442	46315	45347
35°	27344	31981	24212
40°	14362	17067	17647
45°	13117	10187	9559
50°	7906	5219	3914
55°	0	0	0
60°	5032	5032	1677
65°	3969	1051	0
70°	0	3750	4904
75°	0	8197	0
80°	0	0	0
85°	0	5095	0



TEST NUMBER: P314792

CATALOG NUMBER: LDA2B15SP8030D010 PIN1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.9	50.8
10°-20°	544.1	37.8
20°-30°	120.3	8.4
30°-40°	26.7	1.9
40°-50°	10.9	0.8
50°-60°	1.8	0.1
60°-70°	1.9	0.1
70°-80°	1.5	0.1
80°-90°	1.4	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°	1395.3	96.9
0°-40°	1422.1	98.8
0°-60°	1434.8	99.7
0°-90°	1439.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11179	11179	11179	11179	11179	
5°	9304	9266	9260	9225	9150	742
15°	1949	1943	1899	1722	1630	573
25°	213	238	230	213	205	116
35°	45	45	53	43	40	26
45°	19	15	15	15	14	11
55°	0	0	0	0	0	2
65°	3	2	1	0	0	4
75°	0	0	4	0	0	1
85°	0	1	1	3	0	0
90°	0	0	0	0	0	



TEST NUMBER: P314792

CATALOG NUMBER: LDA2B15SP8030D010 PIN1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11179.4	11179.4	11179.4	11179.4	11179.4
1°	11087.8	11042.4	11064.7	11077.5	11058.7
2°	10829.2	10774.4	10809.5	10813.0	10794.1
3°	10443.9	10419.1	10430.2	10434.5	10396.8
4°	9950.8	9914.8	9922.5	9913.1	9866.9
5°	9304.3	9265.8	9259.8	9224.7	9150.2
6°	8514.1	8491.8	8451.6	8391.6	8292.3
7°	7667.3	7649.3	7579.9	7472.1	7357.3
8°	6739.2	6739.2	6639.0	6490.0	6359.0
9°	5860.7	5828.2	5700.6	5520.8	5394.1
10°	5011.3	4967.7	4816.1	4633.8	4507.9
11°	4207.4	4161.1	4015.6	3828.9	3712.5
12°	3513.0	3488.2	3375.1	3169.7	3053.2
13°	2926.5	2894.0	2794.6	2600.3	2501.0
14°	2415.3	2374.2	2294.6	2116.5	2019.8
15°	1948.7	1942.7	1899.1	1721.8	1630.2
16°	1592.5	1589.1	1548.0	1375.1	1337.4
17°	1278.3	1296.3	1284.3	1125.0	1082.2
18°	994.9	1030.9	1039.4	895.6	852.8
19°	800.5	834.8	849.4	723.5	687.5
20°	637.0	669.5	680.7	586.5	562.5
22.5°	361.3	405.0	406.7	357.9	333.1
25°	213.2	238.0	230.3	213.2	204.6
26°	178.9	202.9	190.9	185.8	178.9
27°	150.7	167.0	157.5	149.0	155.0
28°	125.0	136.1	126.7	129.3	119.9
29°	99.3	118.2	104.5	107.0	99.3
30°	74.5	91.6	81.3	85.6	79.6
32.5°	55.7	60.8	53.9	60.8	60.8
35°	45.4	45.4	53.1	42.8	40.2
37.5°	20.5	16.3	18.0	14.6	17.1
40°	22.3	24.8	26.5	22.3	27.4
42.5°	15.4	20.5	20.5	13.7	24.0
45°	18.8	15.4	14.6	14.6	13.7
47.5°	8.6	6.0	6.8	7.7	12.0
50°	10.3	4.3	6.8	10.3	5.1
52.5°	3.4	0.0	4.3	0.0	1.7
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.9	1.7	0.0
60°	5.1	6.0	5.1	3.4	1.7
62.5°	8.6	1.7	2.6	3.4	0.0
65°	3.4	1.7	0.9	0.0	0.0
67.5°	0.0	0.0	2.6	0.0	0.0



TEST NUMBER: P314792

CATALOG NUMBER: LDA2B15SP8030D010 PIN1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	4.3	0.0	0.0
77.5°	1.7	0.0	3.4	0.0	0.0
80°	0.0	1.7	0.0	0.0	0.0
82.5°	0.0	0.0	4.3	3.4	0.0
85°	0.0	0.9	0.9	2.6	0.0
87.5°	0.0	2.6	3.4	0.9	1.7
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	2.6	1.7	3.4
72.5°	0.0	0.9	3.4	5.1	1.7



(END OF REPORT)