

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: P281700

Luminaire Tested: **LDA2B158035D010 EU2B15SP158035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158035D010 EU2B15SP158035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1455.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

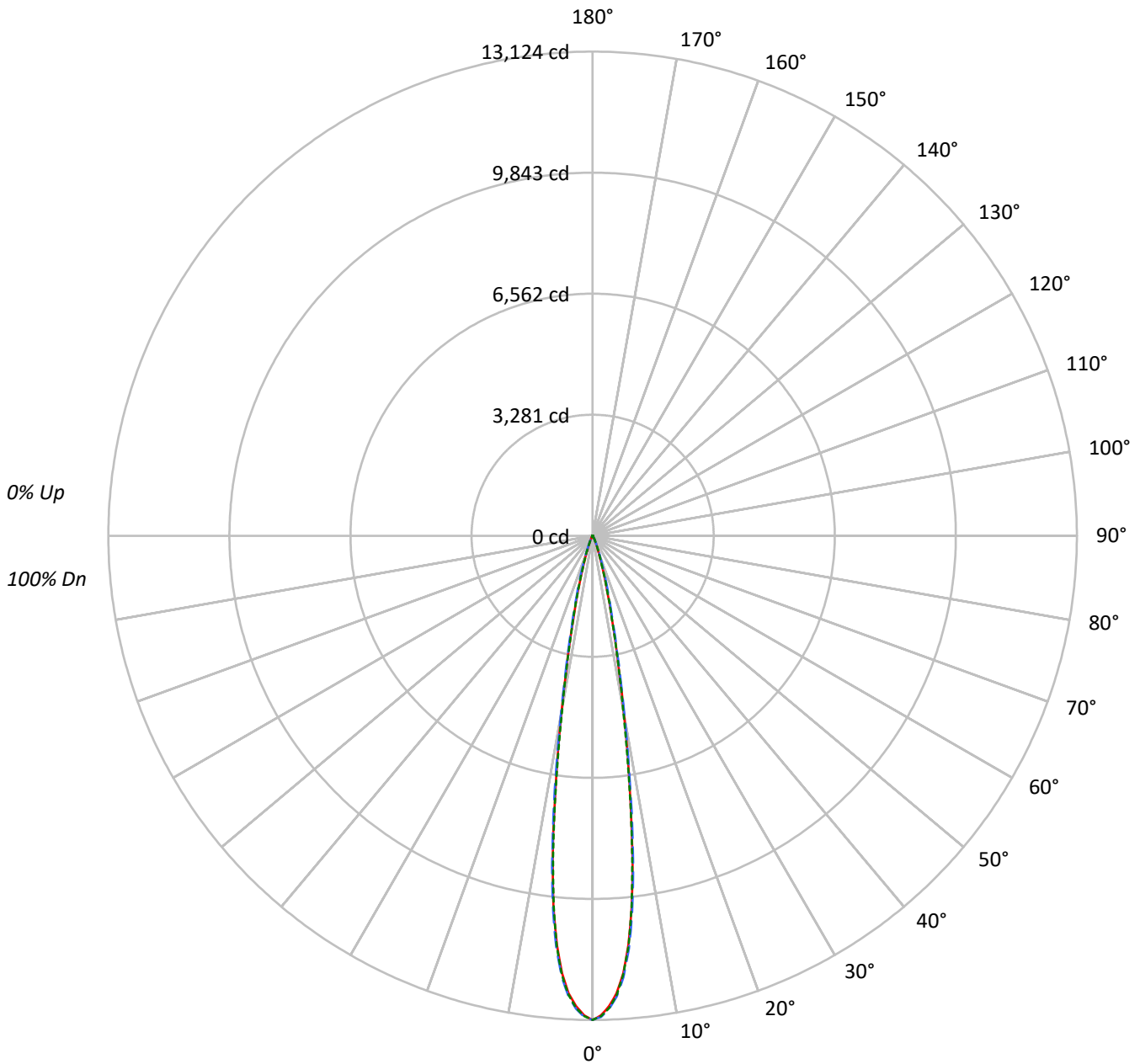
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96					96			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94					94			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93					93			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91					91			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89					89			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88					88			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87					87			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85					85			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84					84			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6474781	6474781	6474781
5°	5513479	5570927	5523928
10°	2434126	2489784	2377216
15°	738567	847105	750162
20°	220983	294644	246972
25°	86064	84758	90528
30°	38340	34637	36517
35°	7830	6866	6866
40°	0	515	2061
45°	6768	5652	10187
50°	0	1842	6217
55°	0	0	2752
60°	0	789	3158
65°	0	0	1868
70°	0	4616	9376
75°	0	0	0
80°	0	0	0
85°	0	4529	18114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.8	58.5
10°-20°	485.9	33.4
20°-30°	92.2	6.3
30°-40°	16.8	1.2
40°-50°	4.3	0.3
50°-60°	3.3	0.2
60°-70°	0.5	0.0
70°-80°	0.7	0.1
80°-90°	1.0	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°	1428.9	98.2
0°-40°	1445.7	99.3
0°-60°	1453.2	99.8
0°-90°	1455.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13124	13124	13124	13124	13124	
5°	11133	11206	11249	11229	11154	845
15°	1446	1573	1658	1558	1469	460
25°	158	170	156	178	166	83
35°	13	16	11	14	11	18
45°	10	15	8	9	15	5
55°	0	1	0	1	3	1
65°	0	0	0	0	2	0
75°	0	0	0	0	0	0
85°	0	1	1	1	3	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13123.8	13123.8	13123.8	13123.8	13123.8
1°	12999.7	13013.5	13042.7	13072.7	13025.7
2°	12756.4	12789.7	12831.1	12858.6	12807.5
3°	12415.8	12462.0	12505.8	12511.5	12463.7
4°	11889.5	11946.2	11992.5	11986.8	11926.8
5°	11132.8	11205.8	11248.8	11229.3	11153.9
6°	10132.8	10203.4	10258.5	10202.6	10101.2
7°	8887.1	8968.2	9026.6	8930.9	8806.8
8°	7443.5	7557.0	7615.4	7481.6	7354.3
9°	6076.1	6154.8	6214.0	6068.0	5938.2
10°	4858.8	5003.1	4969.9	4857.2	4745.2
11°	3821.5	3952.1	3957.7	3881.5	3772.0
12°	2991.8	3129.7	3164.6	3106.2	3008.9
13°	2364.1	2467.1	2524.7	2464.7	2372.2
14°	1881.6	1973.2	2047.0	1969.1	1876.7
15°	1446.0	1572.6	1658.5	1558.0	1468.7
16°	1150.0	1254.6	1356.8	1242.5	1171.1
17°	883.2	976.5	1081.9	978.1	919.7
18°	699.1	772.9	888.9	781.8	730.7
19°	547.4	603.4	711.3	617.2	575.8
20°	420.9	482.6	561.2	497.2	470.4
22.5°	254.7	288.7	311.4	292.0	278.2
25°	158.1	170.3	155.7	177.6	166.3
26°	137.9	146.8	143.5	158.1	144.4
27°	110.3	121.7	112.7	124.1	120.0
28°	100.6	114.4	96.5	110.3	103.8
29°	70.6	76.2	68.9	73.8	73.8
30°	67.3	68.9	60.8	66.5	64.1
32.5°	52.7	49.5	40.6	43.0	41.4
35°	13.0	16.2	11.4	13.8	11.4
37.5°	19.5	17.8	21.1	20.3	19.5
40°	0.0	0.8	0.8	0.8	3.2
42.5°	14.6	8.9	8.1	5.7	9.7
45°	9.7	15.4	8.1	8.9	14.6
47.5°	0.0	0.8	0.0	1.6	1.6
50°	0.0	1.6	2.4	3.2	8.1
52.5°	1.6	9.7	4.9	8.9	13.0
55°	0.0	0.8	0.0	0.8	3.2
57.5°	3.2	1.6	3.2	3.2	14.6
60°	0.0	1.6	0.8	0.8	3.2
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.6
67.5°	0.0	0.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.8	0.0	0.0
80°	0.0	0.8	0.0	0.0	0.0
82.5°	0.0	0.8	1.6	2.4	1.6
85°	0.0	0.8	0.8	0.8	3.2
87.5°	0.0	1.6	2.4	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	2.4	3.2	0.0	6.5
72.5°	0.0	4.1	0.8	0.8	0.0



(END OF REPORT)