

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: P283637

Luminaire Tested: **LDA2B158030D010 EU2B15FL408030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158030D010 EU2B15FL408030 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1195.8 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

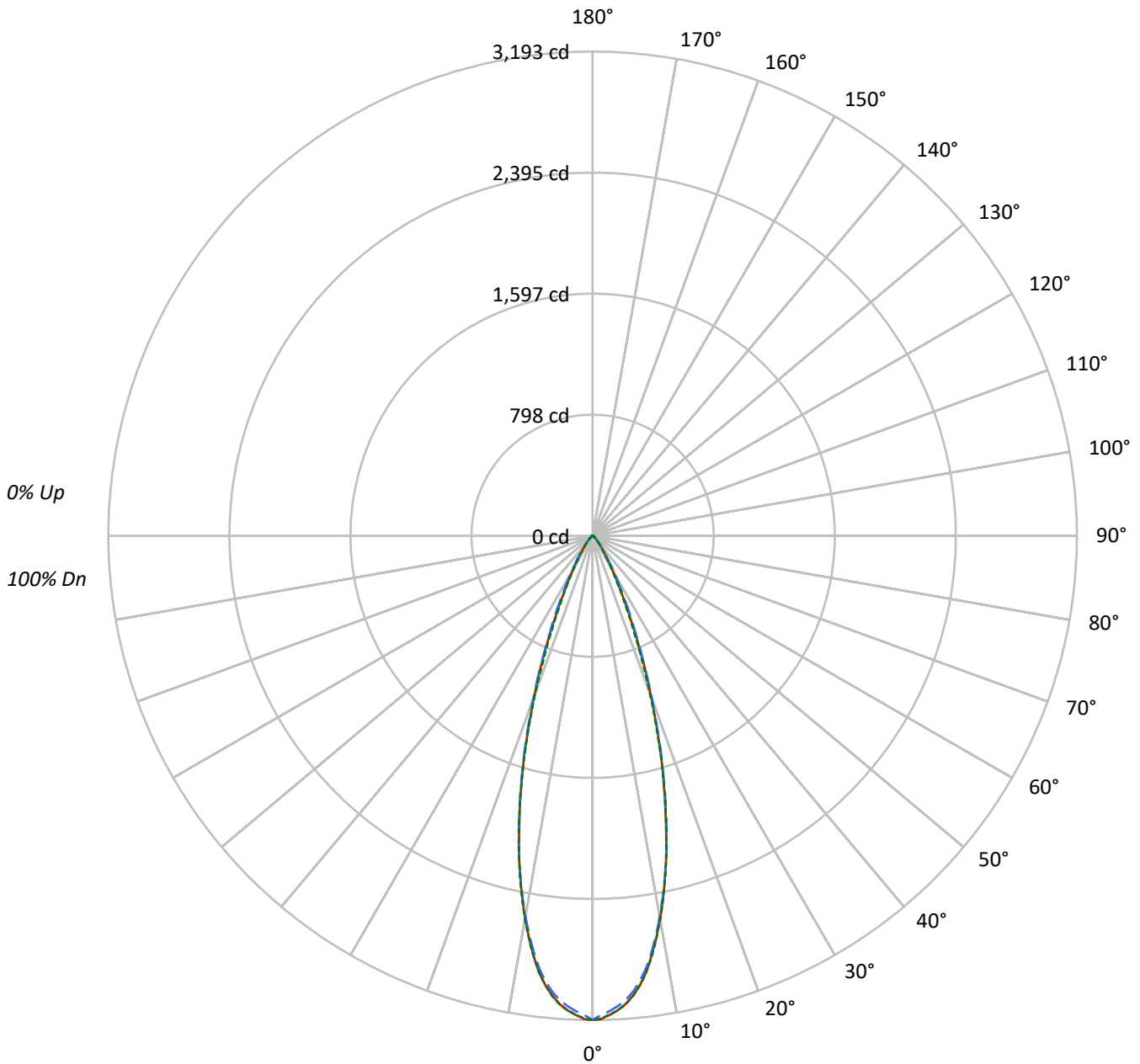
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1575452	1575452	1575452
5°	1507728	1496436	1510056
10°	1284494	1276428	1285847
15°	946755	952936	949820
20°	591020	601941	578000
25°	305280	327599	289983
30°	146352	167772	139516
35°	75587	83657	70708
40°	42313	44503	40188
45°	25746	25746	24839
50°	13355	16502	13355
55°	6967	10924	7483
60°	7992	7992	7992
65°	8639	8639	8639
70°	10674	9665	10674
75°	10293	10293	10293
80°	9660	9660	9660
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	23.0
10°-20°	504.5	42.2
20°-30°	273.5	22.9
30°-40°	87.8	7.3
40°-50°	29.9	2.5
50°-60°	10.5	0.9
60°-70°	7.7	0.6
70°-80°	5.6	0.5
80°-90°	1.6	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°	1052.7	88.0
0°-40°	1140.5	95.4
0°-60°	1181.0	98.8
0°-90°	1195.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1195.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3193	3193	3193	3193	3193	
5°	3044	3026	3022	3052	3049	275
15°	1854	1869	1866	1874	1860	502
25°	561	586	602	560	533	269
35°	126	131	139	126	117	84
45°	37	38	37	37	36	29
55°	8	10	13	10	9	9
65°	7	8	7	8	7	8
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3193.3	3193.3	3193.3	3193.3	3193.3
1°	3187.9	3165.1	3161.8	3191.3	3184.6
2°	3162.4	3141.0	3137.6	3167.1	3161.1
3°	3134.3	3114.8	3108.1	3139.0	3134.9
4°	3096.7	3078.6	3072.6	3103.4	3100.1
5°	3044.4	3025.6	3021.6	3051.8	3049.1
6°	2980.0	2964.5	2957.2	2987.4	2982.0
7°	2899.5	2885.4	2877.3	2899.5	2902.2
8°	2794.8	2788.1	2778.7	2800.9	2800.9
9°	2683.5	2677.4	2667.4	2687.5	2687.5
10°	2564.0	2560.0	2547.9	2566.7	2566.7
11°	2433.2	2431.2	2422.5	2437.9	2437.9
12°	2295.7	2300.4	2292.3	2305.8	2301.1
13°	2158.2	2156.2	2156.8	2166.9	2159.5
14°	2002.5	2014.6	2016.6	2022.7	2011.2
15°	1853.6	1869.0	1865.7	1874.4	1859.6
16°	1701.3	1718.8	1718.1	1720.1	1706.0
17°	1559.1	1569.1	1569.8	1567.8	1550.4
18°	1407.5	1421.6	1421.6	1418.2	1397.4
19°	1259.2	1269.9	1277.3	1269.9	1245.8
20°	1125.7	1133.1	1146.5	1127.7	1100.9
21°	997.6	1004.3	1015.7	993.5	964.0
22°	874.8	883.5	894.3	868.8	837.9
23°	760.1	780.2	784.2	749.4	723.2
24°	654.8	677.6	684.3	648.7	621.2
25°	560.8	586.3	601.8	560.2	532.7
26°	479.7	504.5	523.3	481.7	455.5
27°	408.6	434.7	454.2	415.3	390.4
28°	347.5	373.0	393.1	356.9	333.4
29°	301.9	316.6	336.8	306.6	285.1
30°	256.9	273.0	294.5	263.6	244.9
32.5°	176.4	185.2	201.9	183.1	168.4
35°	125.5	130.8	138.9	126.1	117.4
37.5°	89.2	91.9	96.6	89.2	84.5
40°	65.7	67.1	69.1	65.1	62.4
42.5°	49.0	49.6	49.6	48.3	47.0
45°	36.9	37.6	36.9	36.9	35.6
47.5°	26.8	28.8	28.2	28.2	26.2
50°	17.4	21.5	21.5	20.8	17.4
52.5°	10.7	14.8	16.8	14.8	11.4
55°	8.1	10.1	12.7	10.1	8.7
57.5°	8.1	8.1	9.4	8.1	8.1
60°	8.1	8.1	8.1	8.1	8.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.4	7.4	7.4	7.4	7.4
70°	7.4	7.4	6.7	7.4	7.4
72.5°	6.7	6.7	6.0	6.7	6.0
75°	5.4	5.4	5.4	5.4	5.4
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.0	2.0	2.0	2.7	2.0
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.1	8.1	8.1	8.1	8.1
65°	7.4	8.1	7.4	8.1	7.4



(END OF REPORT)