

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: P283633

Luminaire Tested: **LDA2B158027D010 EU2B15FL408027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283633
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: LDA2B158027D010 EU2B15FL408027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1147.3 lumens
Efficiency: N/A
Efficacy: 81.4 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

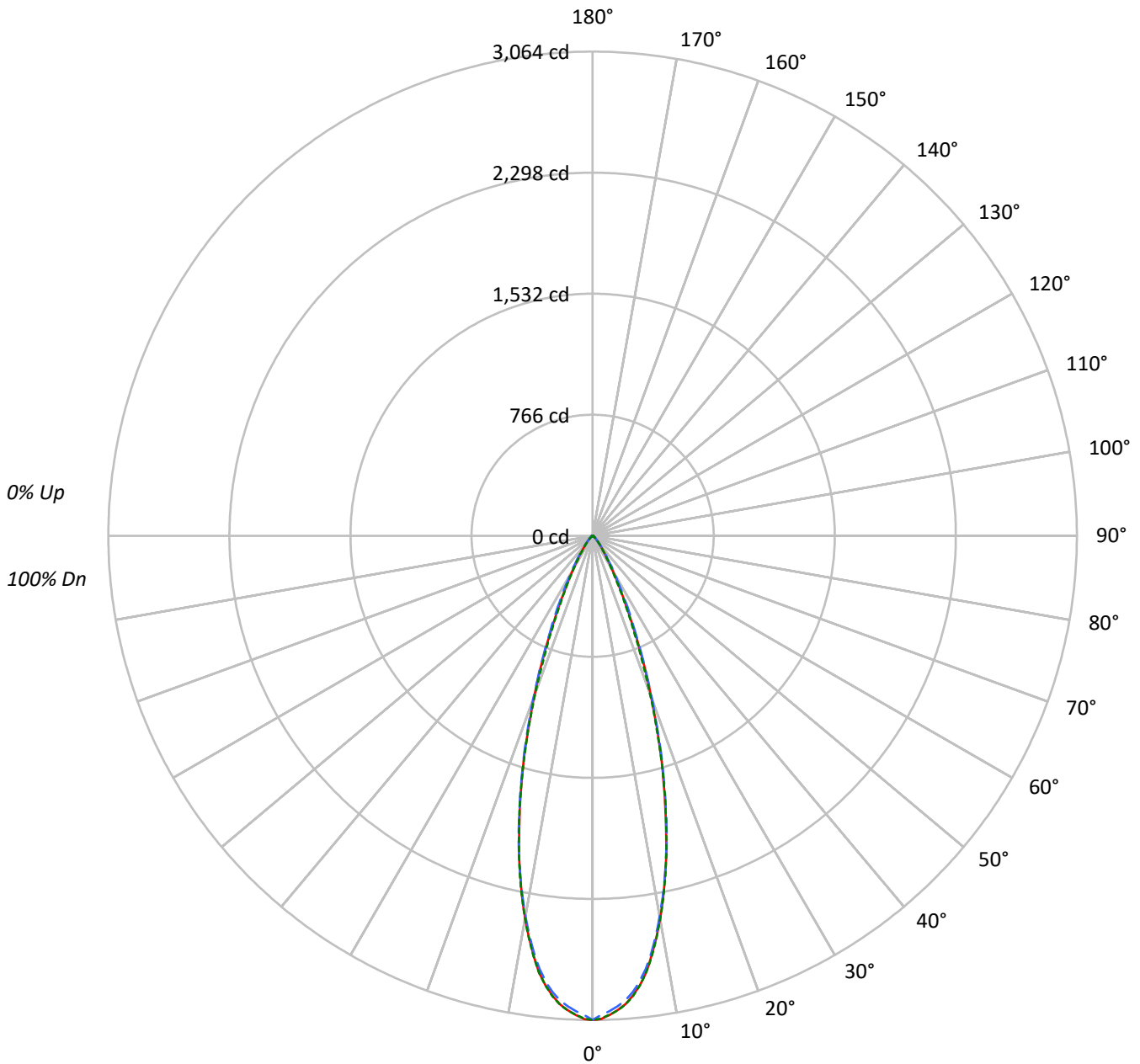
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1511661	1511661	1511661
5°	1446664	1435818	1448893
10°	1232493	1224778	1233796
15°	908397	914322	911359
20°	567079	577580	554584
25°	292923	314316	278225
30°	140427	160993	133819
35°	72515	80224	67817
40°	40639	42700	38578
45°	24699	24699	23792
50°	12818	15811	12818
55°	6623	10494	7225
60°	7598	7598	7598
65°	8288	8288	8288
70°	10242	9232	10242
75°	9722	9722	9722
80°	9092	9092	9092
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	23.0
10°-20°	484.1	42.2
20°-30°	262.5	22.9
30°-40°	84.2	7.3
40°-50°	28.7	2.5
50°-60°	10.1	0.9
60°-70°	7.3	0.6
70°-80°	5.3	0.5
80°-90°	1.5	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°	1010.1	88.0
0°-40°	1094.3	95.4
0°-60°	1133.1	98.8
0°-90°	1147.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3064	3064	3064	3064	3064	
5°	2921	2903	2899	2928	2926	264
15°	1778	1793	1790	1798	1784	482
25°	538	563	577	538	511	258
35°	120	126	133	121	113	81
45°	35	36	35	35	34	28
55°	8	10	12	10	8	8
65°	7	8	7	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3064.0	3064.0	3064.0	3064.0	3064.0
1°	3058.8	3037.0	3033.7	3062.1	3055.6
2°	3034.4	3013.8	3010.6	3038.9	3033.1
3°	3007.3	2988.7	2982.2	3011.8	3008.0
4°	2971.3	2953.9	2948.1	2977.7	2974.5
5°	2921.1	2903.1	2899.2	2928.2	2925.6
6°	2859.3	2844.5	2837.4	2866.4	2861.2
7°	2782.1	2768.5	2760.8	2782.1	2784.6
8°	2681.6	2675.2	2666.2	2687.4	2687.4
9°	2574.8	2569.0	2559.3	2578.6	2578.6
10°	2460.2	2456.3	2444.8	2462.8	2462.8
11°	2334.7	2332.8	2324.4	2339.2	2339.2
12°	2202.7	2207.2	2199.5	2212.4	2207.9
13°	2070.8	2068.8	2069.5	2079.1	2072.1
14°	1921.4	1933.0	1934.9	1940.7	1929.8
15°	1778.5	1793.3	1790.1	1798.5	1784.3
16°	1632.4	1649.1	1648.5	1650.4	1636.9
17°	1495.9	1505.6	1506.2	1504.3	1487.6
18°	1350.5	1364.0	1364.0	1360.8	1340.8
19°	1208.2	1218.5	1225.6	1218.5	1195.3
20°	1080.1	1087.2	1100.1	1082.1	1056.3
21°	957.2	963.6	974.6	953.3	925.0
22°	839.4	847.7	858.0	833.6	804.0
23°	729.3	748.6	752.5	719.0	693.9
24°	628.2	650.1	656.6	622.5	596.1
25°	538.1	562.6	577.4	537.5	511.1
26°	460.2	484.1	502.1	462.2	437.1
27°	392.0	417.1	435.8	398.4	374.6
28°	333.4	357.9	377.2	342.4	319.9
29°	289.7	303.8	323.1	294.2	273.6
30°	246.5	262.0	282.6	253.0	234.9
32.5°	169.3	177.7	193.8	175.7	161.6
35°	120.4	125.5	133.2	121.0	112.6
37.5°	85.6	88.2	92.7	85.6	81.1
40°	63.1	64.4	66.3	62.4	59.9
42.5°	47.0	47.6	47.6	46.3	45.1
45°	35.4	36.0	35.4	35.4	34.1
47.5°	25.7	27.7	27.0	27.0	25.1
50°	16.7	20.6	20.6	20.0	16.7
52.5°	10.3	14.2	16.1	14.2	10.9
55°	7.7	9.7	12.2	9.7	8.4
57.5°	7.7	7.7	9.0	7.7	7.7
60°	7.7	7.7	7.7	7.7	7.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.1	7.1	7.1	7.1	7.1
70°	7.1	7.1	6.4	7.1	7.1
72.5°	6.4	6.4	5.8	6.4	5.8
75°	5.1	5.1	5.1	5.1	5.1
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.2	3.2	3.2	3.2	3.2
82.5°	1.9	1.9	1.9	2.6	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	7.7	7.7	7.7	7.7	7.7
65°	7.1	7.7	7.1	7.7	7.1



(END OF REPORT)