

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: P283643

Luminaire Tested: **LDA2B158035D010 EU2B15FL408035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283643
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: LDA2B158035D010 EU2B15FL408035 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: 1209.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

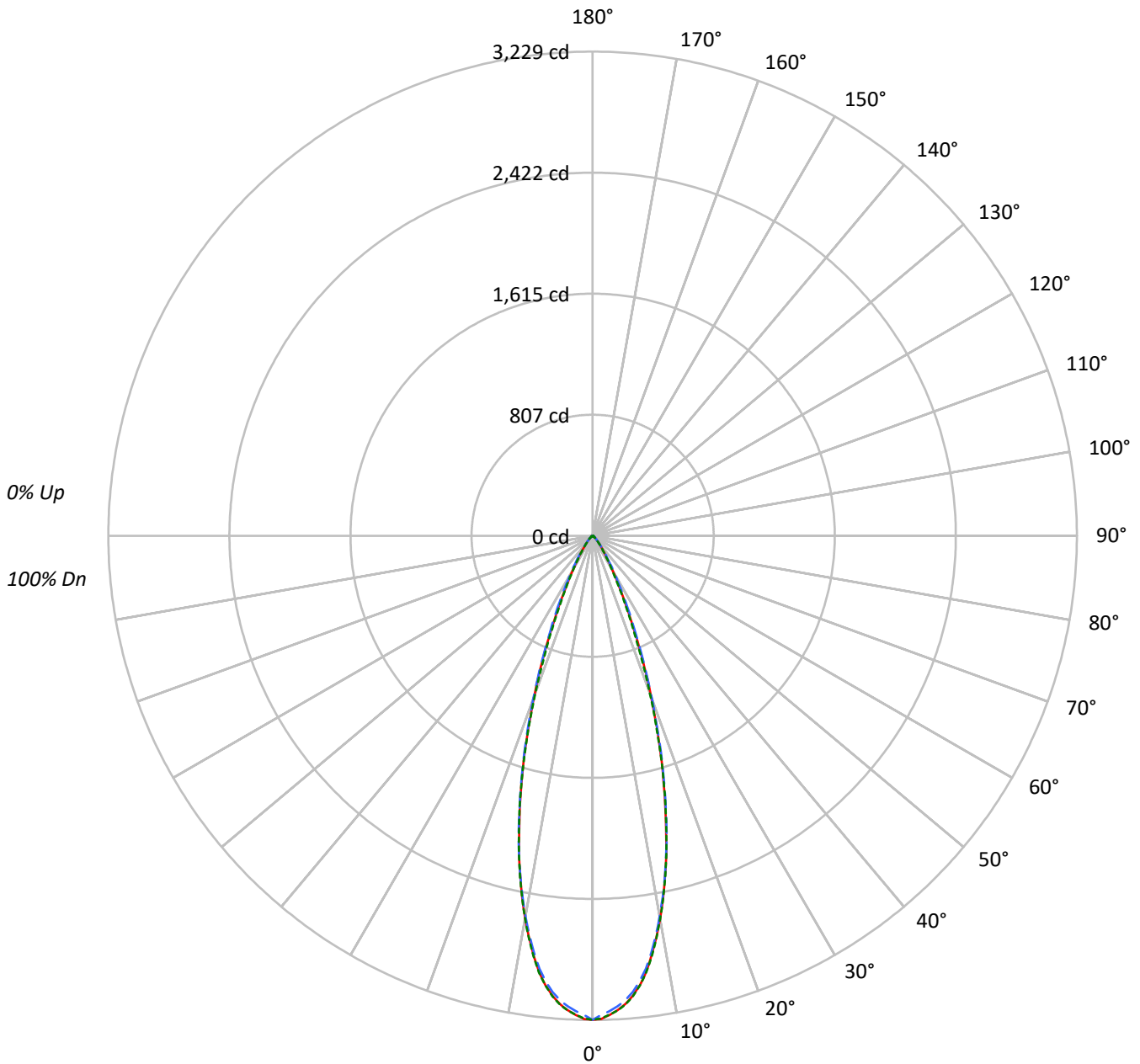
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1592917	1592917	1592917
5°	1524467	1513027	1526795
10°	1298772	1290606	1300124
15°	957277	963508	960393
20°	597583	608609	584405
25°	308709	331191	293195
30°	148004	169652	141054
35°	76370	84561	71491
40°	42829	45018	40639
45°	26025	26025	25118
50°	13509	16656	13509
55°	6967	11096	7569
60°	7992	7992	7992
65°	8755	8755	8755
70°	10819	9809	10819
75°	10293	10293	10293
80°	9660	9660	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	23.0
10°-20°	510.1	42.2
20°-30°	276.6	22.9
30°-40°	88.8	7.3
40°-50°	30.3	2.5
50°-60°	10.6	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°	1064.4	88.0
0°-40°	1153.2	95.4
0°-60°	1194.0	98.8
0°-90°	1209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3229	3229	3229	3229	3229	
5°	3078	3059	3055	3086	3083	278
15°	1874	1890	1886	1895	1880	508
25°	567	593	608	566	539	272
35°	127	132	140	128	119	85
45°	37	38	37	37	36	30
55°	8	10	13	10	9	9
65°	8	8	8	8	8	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°	3228.7	3228.7	3228.7	3228.7	3228.7
1°	3223.3	3200.3	3196.9	3226.7	3219.9
2°	3197.5	3175.8	3172.4	3202.3	3196.2
3°	3169.0	3149.4	3142.6	3173.8	3169.7
4°	3131.1	3112.7	3106.6	3137.8	3134.5
5°	3078.2	3059.2	3055.1	3085.6	3082.9
6°	3013.0	2997.4	2990.0	3020.5	3015.1
7°	2931.6	2917.4	2909.3	2931.6	2934.4
8°	2825.8	2819.0	2809.5	2831.9	2831.9
9°	2713.2	2707.1	2696.9	2717.3	2717.3
10°	2592.5	2588.4	2576.2	2595.2	2595.2
11°	2460.2	2458.2	2449.4	2465.0	2465.0
12°	2321.2	2325.9	2317.8	2331.3	2326.6
13°	2182.1	2180.1	2180.8	2190.9	2183.5
14°	2024.7	2037.0	2039.0	2045.1	2033.6
15°	1874.2	1889.8	1886.4	1895.2	1880.3
16°	1720.2	1737.8	1737.1	1739.2	1724.9
17°	1576.4	1586.6	1587.2	1585.2	1567.6
18°	1423.1	1437.3	1437.3	1433.9	1412.9
19°	1273.2	1284.0	1291.5	1284.0	1259.6
20°	1138.2	1145.7	1159.2	1140.2	1113.1
21°	1008.6	1015.4	1027.0	1004.6	974.7
22°	884.5	893.3	904.2	878.4	847.2
23°	768.5	788.9	792.9	757.7	731.2
24°	662.0	685.1	691.9	655.9	628.1
25°	567.1	592.8	608.4	566.4	538.6
26°	485.0	510.1	529.1	487.0	460.6
27°	413.1	439.5	459.2	419.9	394.8
28°	351.4	377.1	397.5	360.9	337.1
29°	305.2	320.2	340.5	310.0	288.3
30°	259.8	276.1	297.8	266.6	247.6
32.5°	178.4	187.2	204.2	185.2	170.3
35°	126.8	132.3	140.4	127.5	118.7
37.5°	90.2	92.9	97.7	90.2	85.5
40°	66.5	67.8	69.9	65.8	63.1
42.5°	49.5	50.2	50.2	48.8	47.5
45°	37.3	38.0	37.3	37.3	36.0
47.5°	27.1	29.2	28.5	28.5	26.5
50°	17.6	21.7	21.7	21.0	17.6
52.5°	10.9	14.9	17.0	14.9	11.5
55°	8.1	10.2	12.9	10.2	8.8
57.5°	8.1	8.1	9.5	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°	7.5	7.5	7.5	7.5	7.5
70°	7.5	7.5	6.8	7.5	7.5
72.5°	6.8	6.8	6.1	6.8	6.1
75°	5.4	5.4	5.4	5.4	5.4
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.0	2.0	2.0	2.7	2.0
85°	1.4	1.4	1.4	1.4	1.4
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°	7.5	8.1	7.5	8.1	7.5



(END OF REPORT)