

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: P283646

Luminaire Tested: **LDA2B158040D010 EU2B15FL408040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283646
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: LDA2B158040D010 EU2B15FL408040 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1333.3 lumens
Efficiency: N/A
Efficacy: 94.6 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

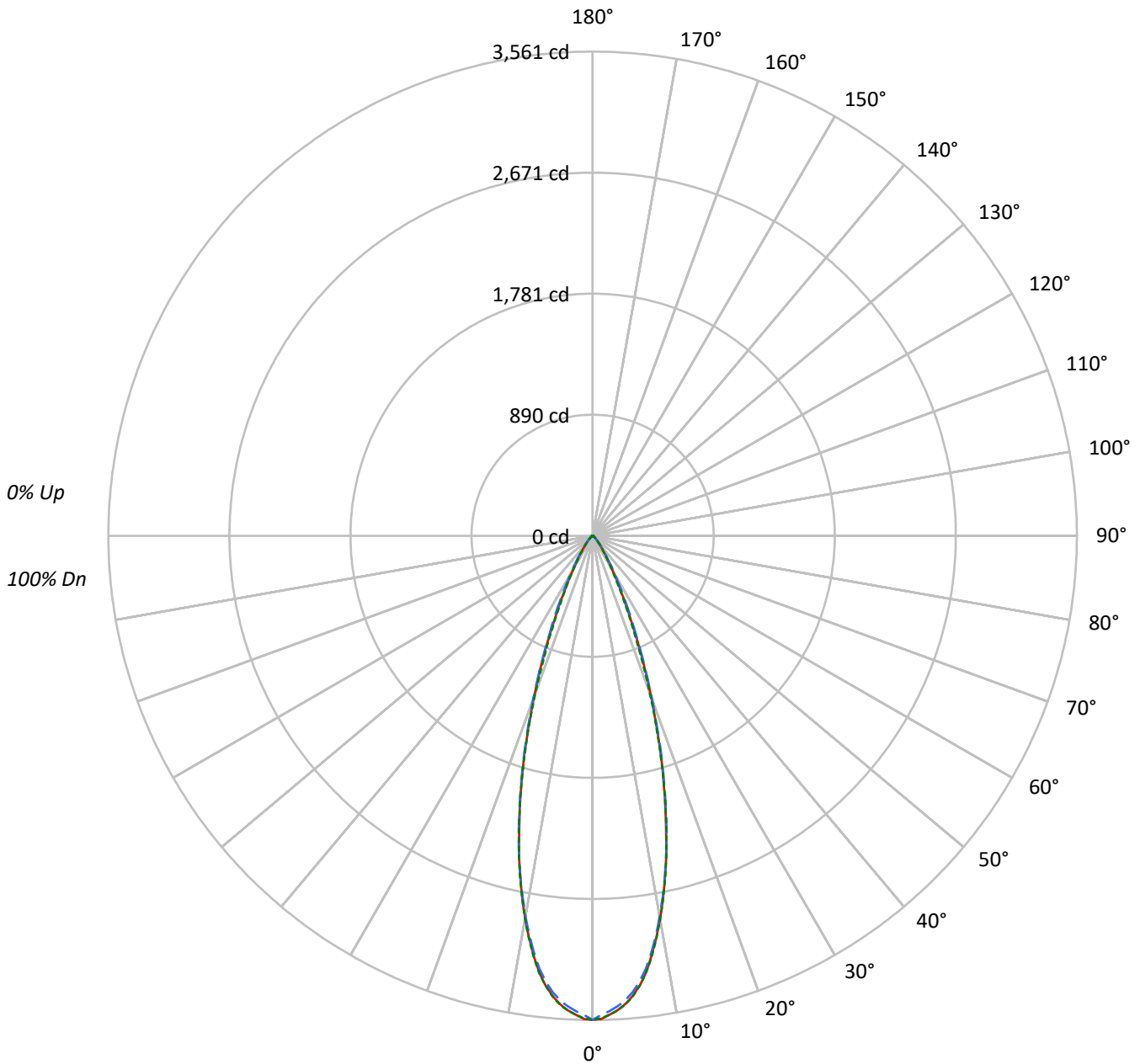
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1756664	1756664	1756664
5°	1681114	1668534	1683739
10°	1432281	1423263	1433784
15°	1055651	1062546	1059073
20°	659011	671192	644468
25°	340446	365269	323298
30°	163215	187085	155524
35°	84259	93233	78839
40°	47208	49591	44825
45°	28676	28676	27630
50°	14890	18344	14890
55°	7741	12214	8343
60°	8881	8881	8881
65°	9573	9573	9573
70°	11828	10819	11828
75°	11437	11437	11437
80°	10512	10512	10512
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	23.0
10°-20°	562.6	42.2
20°-30°	305.0	22.9
30°-40°	97.9	7.3
40°-50°	33.4	2.5
50°-60°	11.7	0.9
60°-70°	8.5	0.6
70°-80°	6.2	0.5
80°-90°	1.8	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°	1173.8	88.0
0°-40°	1271.7	95.4
0°-60°	1316.8	98.8
0°-90°	1333.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3561	3561	3561	3561	3561	
5°	3394	3374	3369	3403	3400	307
15°	2067	2084	2080	2090	2074	560
25°	625	654	671	625	594	300
35°	140	146	155	141	131	94
45°	41	42	41	41	40	33
55°	9	11	14	11	10	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3560.6	3560.6	3560.6	3560.6	3560.6
1°	3554.6	3529.2	3525.5	3558.4	3550.9
2°	3526.2	3502.3	3498.5	3531.4	3524.7
3°	3494.8	3473.1	3465.6	3500.0	3495.5
4°	3452.9	3432.7	3426.0	3460.4	3456.6
5°	3394.5	3373.6	3369.1	3402.8	3399.8
6°	3322.7	3305.5	3297.3	3331.0	3325.0
7°	3233.0	3217.3	3208.3	3233.0	3236.0
8°	3116.3	3108.8	3098.3	3123.0	3123.0
9°	2992.1	2985.4	2974.2	2996.6	2996.6
10°	2859.0	2854.5	2841.0	2862.0	2862.0
11°	2713.1	2710.9	2701.1	2718.3	2718.3
12°	2559.7	2565.0	2556.0	2571.0	2565.7
13°	2406.4	2404.2	2404.9	2416.1	2407.9
14°	2232.9	2246.3	2248.6	2255.3	2242.6
15°	2066.8	2084.0	2080.3	2090.0	2073.5
16°	1897.0	1916.4	1915.7	1917.9	1902.2
17°	1738.4	1749.6	1750.4	1748.1	1728.7
18°	1569.4	1585.1	1585.1	1581.3	1558.1
19°	1404.0	1416.0	1424.2	1416.0	1389.1
20°	1255.2	1263.4	1278.4	1257.4	1227.5
21°	1112.3	1119.8	1132.5	1107.8	1074.9
22°	975.4	985.2	997.1	968.7	934.3
23°	847.5	870.0	874.4	835.5	806.4
24°	730.1	755.5	763.0	723.3	692.7
25°	625.4	653.8	671.0	624.6	593.9
26°	534.8	562.5	583.5	537.1	507.9
27°	455.5	484.7	506.4	463.0	435.4
28°	387.5	415.9	438.3	398.0	371.8
29°	336.6	353.1	375.5	341.8	317.9
30°	286.5	304.4	328.4	294.0	273.0
32.5°	196.7	206.5	225.2	204.2	187.8
35°	139.9	145.9	154.8	140.6	130.9
37.5°	99.5	102.5	107.7	99.5	94.3
40°	73.3	74.8	77.0	72.6	69.6
42.5°	54.6	55.4	55.4	53.9	52.4
45°	41.1	41.9	41.1	41.1	39.6
47.5°	29.9	32.2	31.4	31.4	29.2
50°	19.4	23.9	23.9	23.2	19.4
52.5°	12.0	16.5	18.7	16.5	12.7
55°	9.0	11.2	14.2	11.2	9.7
57.5°	9.0	9.0	10.5	9.0	9.0
60°	9.0	9.0	9.0	9.0	9.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.2	8.2	8.2	8.2	8.2
70°	8.2	8.2	7.5	8.2	8.2
72.5°	7.5	7.5	6.7	7.5	6.7
75°	6.0	6.0	6.0	6.0	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.7	3.7	3.7	3.7	3.7
82.5°	2.2	2.2	2.2	3.0	2.2
85°	1.5	1.5	1.5	1.5	1.5
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°	9.0	9.0	9.0	9.0	9.0
65°	8.2	9.0	8.2	9.0	8.2



(END OF REPORT)