

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: P283674

Luminaire Tested: **LDA2B159030D010 EU2B15FL409030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283674
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: LDA2B159030D010 EU2B15FL409030 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 929.0 lumens
Efficiency: N/A
Efficacy: 65.9 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

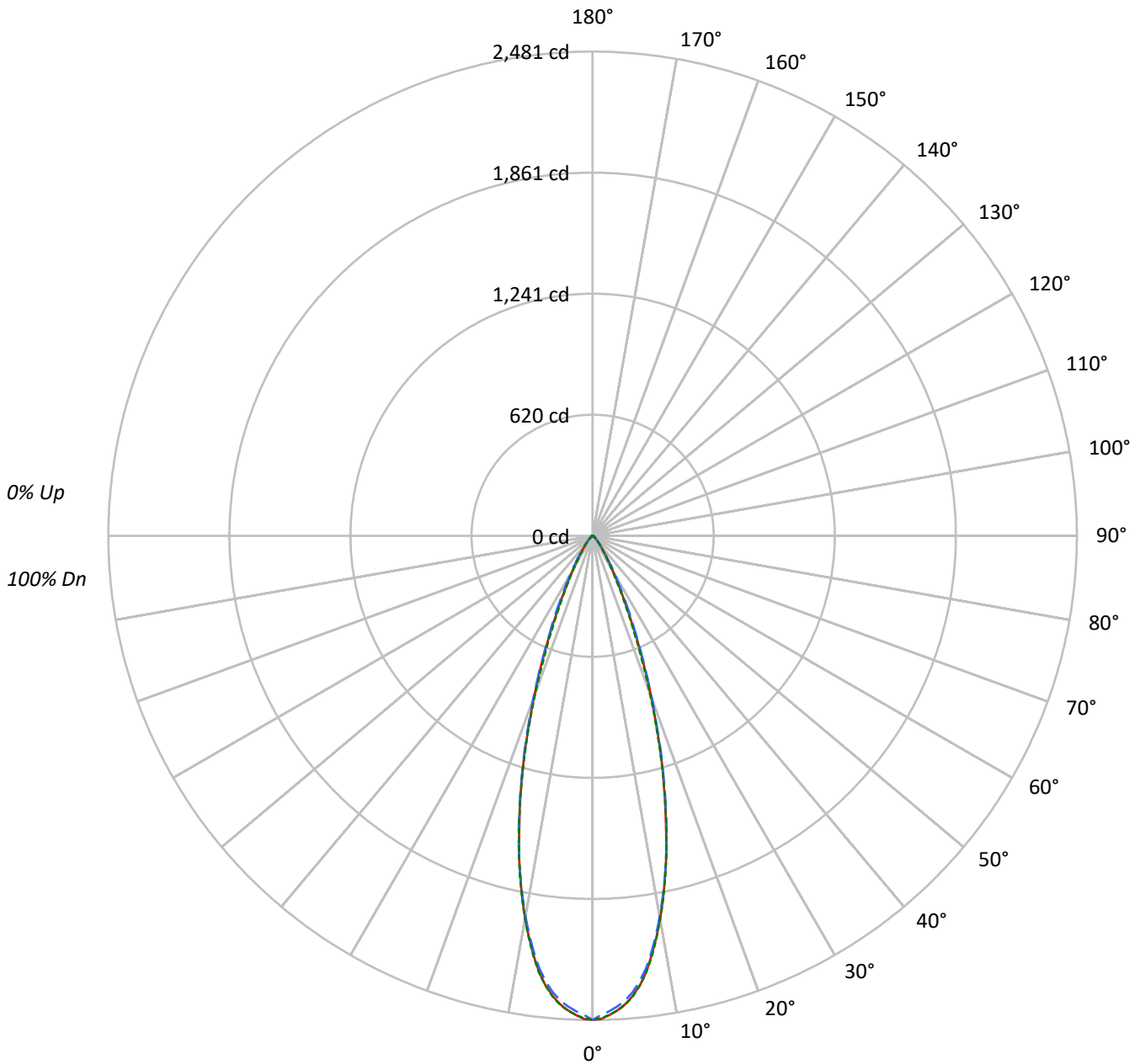
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	1223932	1223932	1223932
5°	1171307	1162541	1173140
10°	997887	991625	998940
15°	735503	740304	737903
20°	459134	467639	449054
25°	237180	254490	225258
30°	113709	130344	108354
35°	58723	64986	54928
40°	32910	34585	31236
45°	20025	20025	19257
50°	10438	12818	10438
55°	5419	8515	5849
60°	6216	6216	6216
65°	6654	6654	6654
70°	8222	7501	8222
75°	8006	8006	8006
80°	7387	7387	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	23.0
10°-20°	392.0	42.2
20°-30°	212.5	22.9
30°-40°	68.2	7.3
40°-50°	23.3	2.5
50°-60°	8.2	0.9
60°-70°	5.9	0.6
70°-80°	4.3	0.5
80°-90°	1.2	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°	817.8	88.0
0°-40°	886.1	95.4
0°-60°	917.5	98.8
0°-90°	929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2365	2350	2347	2371	2369	214
15°	1440	1452	1449	1456	1445	390
25°	436	456	468	435	414	209
35°	98	102	108	98	91	66
45°	29	29	29	29	28	23
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
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°	2480.8	2480.8	2480.8	2480.8	2480.8
1°	2476.6	2458.9	2456.3	2479.2	2474.0
2°	2456.8	2440.2	2437.5	2460.5	2455.8
3°	2434.9	2419.8	2414.6	2438.6	2435.5
4°	2405.8	2391.7	2387.0	2411.0	2408.4
5°	2365.1	2350.5	2347.4	2370.8	2368.8
6°	2315.1	2303.1	2297.3	2320.8	2316.6
7°	2252.5	2241.6	2235.3	2252.5	2254.6
8°	2171.2	2166.0	2158.7	2175.9	2175.9
9°	2084.7	2080.0	2072.2	2087.8	2087.8
10°	1991.9	1988.8	1979.4	1994.0	1994.0
11°	1890.3	1888.7	1882.0	1894.0	1894.0
12°	1783.5	1787.1	1780.9	1791.3	1787.6
13°	1676.6	1675.1	1675.6	1683.4	1677.7
14°	1555.7	1565.1	1566.7	1571.3	1562.5
15°	1440.0	1452.0	1449.4	1456.2	1444.7
16°	1321.7	1335.3	1334.7	1336.3	1325.4
17°	1211.2	1219.0	1219.6	1218.0	1204.4
18°	1093.4	1104.4	1104.4	1101.8	1085.6
19°	978.2	986.6	992.3	986.6	967.8
20°	874.5	880.3	890.7	876.1	855.3
21°	775.0	780.2	789.1	771.9	748.9
22°	679.6	686.4	694.7	674.9	651.0
23°	590.5	606.1	609.3	582.2	561.8
24°	508.7	526.4	531.6	504.0	482.6
25°	435.7	455.5	467.5	435.2	413.8
26°	372.6	391.9	406.5	374.2	353.9
27°	317.4	337.7	352.8	322.6	303.3
28°	270.0	289.8	305.4	277.3	259.0
29°	234.5	246.0	261.6	238.2	221.5
30°	199.6	212.1	228.8	204.8	190.2
32.5°	137.1	143.8	156.9	142.3	130.8
35°	97.5	101.6	107.9	98.0	91.2
37.5°	69.3	71.4	75.0	69.3	65.7
40°	51.1	52.1	53.7	50.6	48.5
42.5°	38.0	38.6	38.6	37.5	36.5
45°	28.7	29.2	28.7	28.7	27.6
47.5°	20.8	22.4	21.9	21.9	20.3
50°	13.6	16.7	16.7	16.2	13.6
52.5°	8.3	11.5	13.0	11.5	8.9
55°	6.3	7.8	9.9	7.8	6.8
57.5°	6.3	6.3	7.3	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.2	5.7	5.7
72.5°	5.2	5.2	4.7	5.2	4.7
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.7	6.3	5.7	6.3	5.7



(END OF REPORT)