

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: P283701

Luminaire Tested: **LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283701
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: LDA2B159730D010 EU2B15FL409730 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 907.9 lumens
Efficiency: N/A
Efficacy: 64.4 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

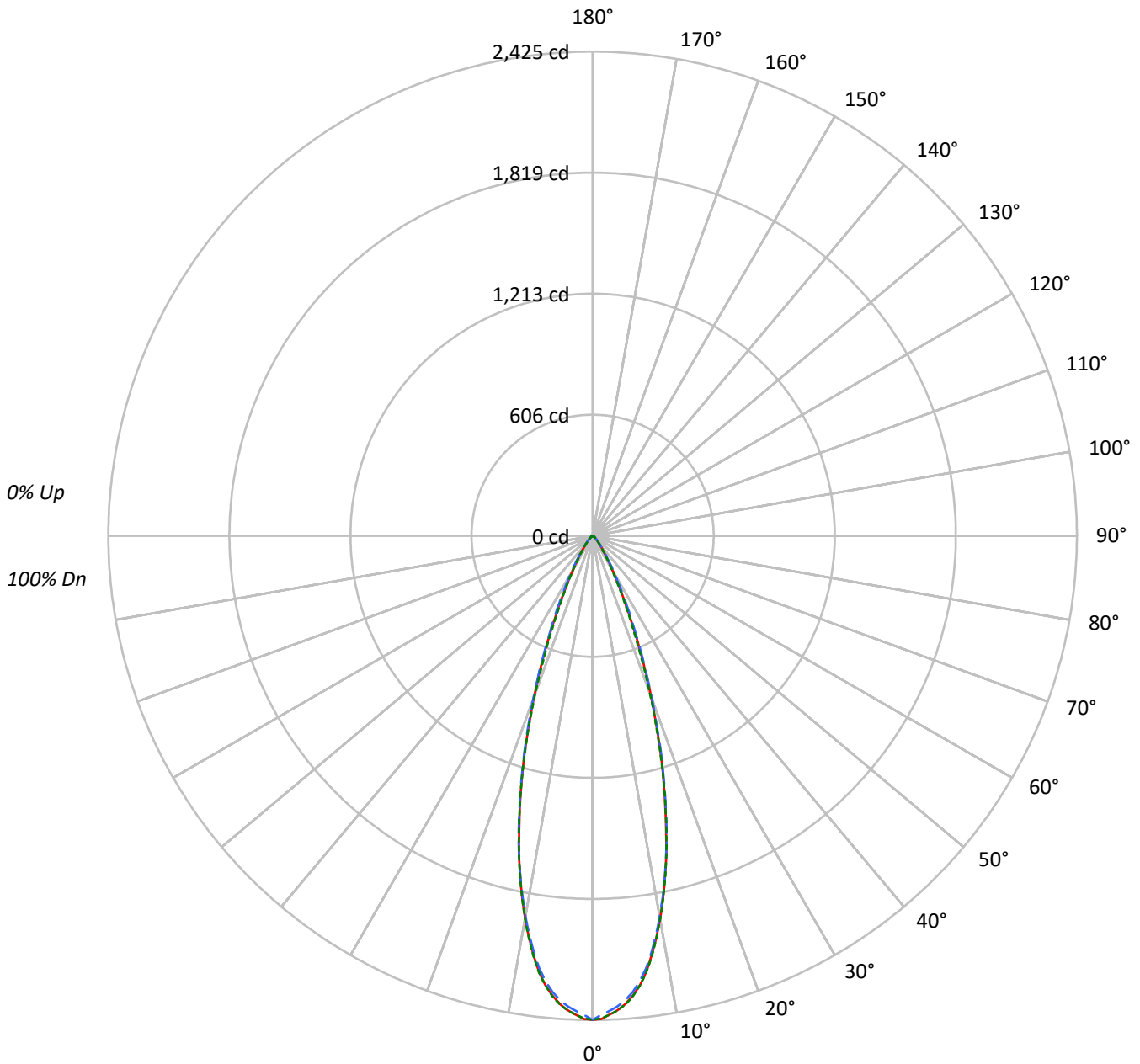
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1196254	1196254	1196254
5°	1144811	1136244	1146594
10°	975344	969182	976346
15°	718852	723551	721201
20°	448739	457034	438868
25°	231790	248720	220195
30°	111146	127382	105904
35°	57398	63481	53663
40°	32137	33812	30527
45°	19536	19536	18838
50°	10131	12511	10131
55°	5247	8343	5677
60°	6019	6019	6019
65°	6537	6537	6537
70°	8078	7357	8078
75°	7815	7815	7815
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	23.0
10°-20°	383.1	42.2
20°-30°	207.7	22.9
30°-40°	66.7	7.3
40°-50°	22.7	2.5
50°-60°	8.0	0.9
60°-70°	5.8	0.6
70°-80°	4.2	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°	799.3	88.0
0°-40°	866.0	95.4
0°-60°	896.7	98.8
0°-90°	907.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2425	2425	2425	2425	2425	
5°	2312	2297	2294	2317	2315	209
15°	1407	1419	1417	1423	1412	382
25°	426	445	457	425	404	204
35°	95	99	105	96	89	64
45°	28	28	28	28	27	22
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°	2424.7	2424.7	2424.7	2424.7	2424.7
1°	2420.6	2403.3	2400.7	2423.1	2418.1
2°	2401.2	2384.9	2382.4	2404.8	2400.2
3°	2379.9	2365.1	2360.0	2383.4	2380.4
4°	2351.3	2337.6	2333.0	2356.4	2353.9
5°	2311.6	2297.3	2294.3	2317.2	2315.2
6°	2262.7	2251.0	2245.4	2268.3	2264.2
7°	2201.6	2190.9	2184.8	2201.6	2203.6
8°	2122.1	2117.0	2109.9	2126.7	2126.7
9°	2037.5	2033.0	2025.3	2040.6	2040.6
10°	1946.9	1943.8	1934.6	1948.9	1948.9
11°	1847.5	1846.0	1839.4	1851.1	1851.1
12°	1743.1	1746.7	1740.6	1750.8	1747.2
13°	1638.7	1637.2	1637.7	1645.3	1639.7
14°	1520.5	1529.7	1531.2	1535.8	1527.1
15°	1407.4	1419.1	1416.6	1423.2	1412.0
16°	1291.8	1305.0	1304.5	1306.1	1295.4
17°	1183.8	1191.5	1192.0	1190.4	1177.2
18°	1068.7	1079.4	1079.4	1076.8	1061.1
19°	956.1	964.3	969.9	964.3	945.9
20°	854.7	860.4	870.5	856.3	835.9
21°	757.5	762.6	771.2	754.4	732.0
22°	664.2	670.9	679.0	659.7	636.2
23°	577.1	592.4	595.5	569.0	549.1
24°	497.2	514.5	519.6	492.6	471.7
25°	425.8	445.2	456.9	425.3	404.5
26°	364.2	383.1	397.3	365.7	345.9
27°	310.2	330.1	344.9	315.3	296.5
28°	263.9	283.2	298.5	271.0	253.2
29°	229.2	240.4	255.7	232.8	216.5
30°	195.1	207.3	223.6	200.2	185.9
32.5°	134.0	140.6	153.3	139.1	127.9
35°	95.3	99.3	105.4	95.8	89.1
37.5°	67.7	69.8	73.4	67.7	64.2
40°	49.9	50.9	52.5	49.4	47.4
42.5°	37.2	37.7	37.7	36.7	35.7
45°	28.0	28.5	28.0	28.0	27.0
47.5°	20.4	21.9	21.4	21.4	19.9
50°	13.2	16.3	16.3	15.8	13.2
52.5°	8.2	11.2	12.7	11.2	8.7
55°	6.1	7.6	9.7	7.6	6.6
57.5°	6.1	6.1	7.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.1	5.6	5.6
72.5°	5.1	5.1	4.6	5.1	4.6
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
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°	6.1	6.1	6.1	6.1	6.1
65°	5.6	6.1	5.6	6.1	5.6



(END OF REPORT)