

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: P283658

Luminaire Tested: **LDA2B159024D010 EU2B15FL409024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283658
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: LDA2B159024D010 EU2B15FL409024 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: 908.9 lumens
Efficiency: N/A
Efficacy: 64.5 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

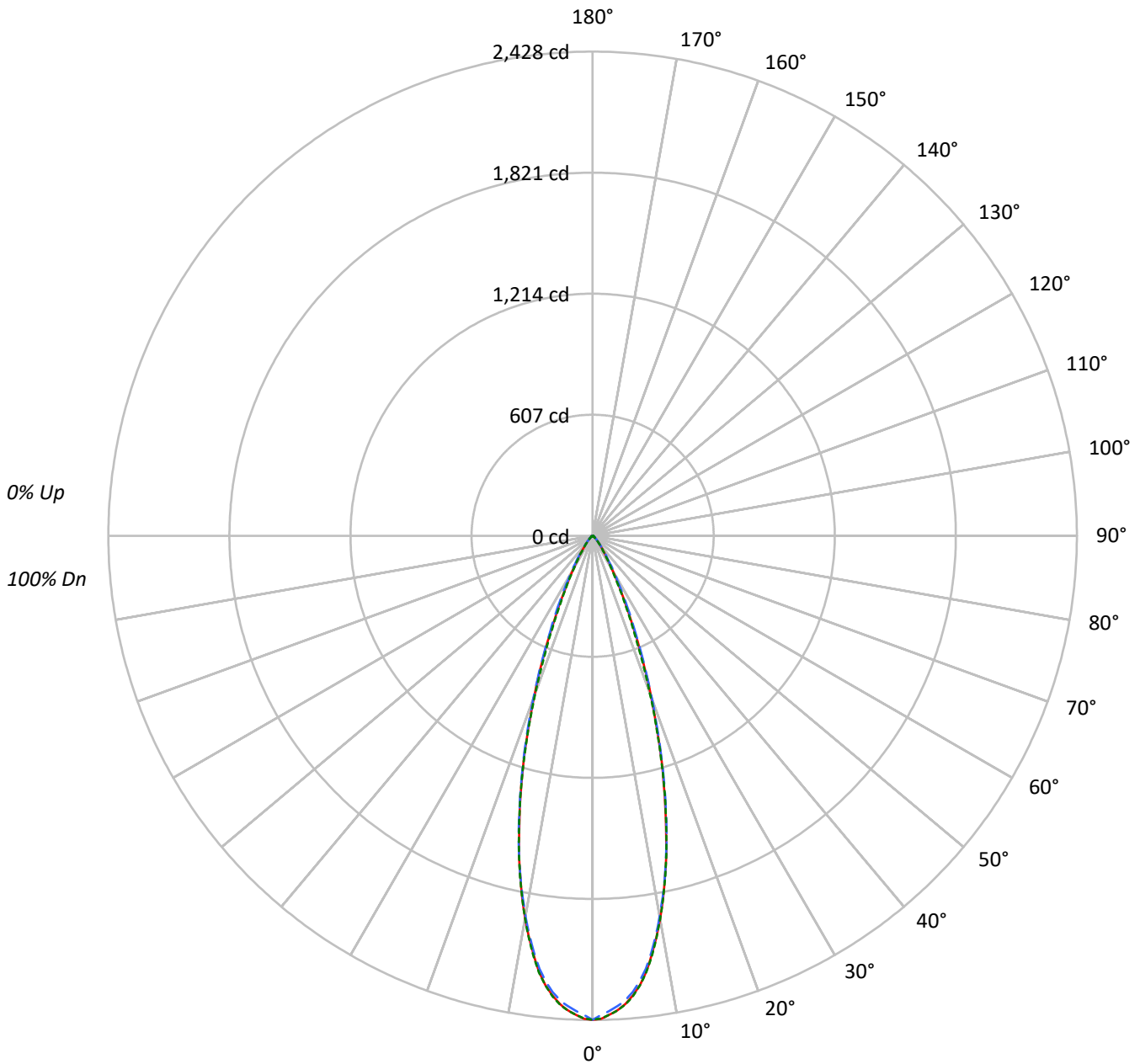
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	1197636	1197636	1197636
5°	1146149	1137581	1147932
10°	976496	970334	977498
15°	719720	724419	722069
20°	449316	457611	439393
25°	232063	249047	220413
30°	111260	127552	106018
35°	57458	63601	53724
40°	32202	33812	30527
45°	19536	19536	18838
50°	10208	12511	10208
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°	208.8	23.0
10°-20°	383.5	42.2
20°-30°	207.9	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°	800.3	88.0
0°-40°	867.0	95.4
0°-60°	897.7	98.8
0°-90°	908.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2428	2428	2428	2428	2428	
5°	2314	2300	2297	2320	2318	209
15°	1409	1421	1418	1425	1414	382
25°	426	446	458	426	405	204
35°	95	99	106	96	89	64
45°	28	29	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°	2427.5	2427.5	2427.5	2427.5	2427.5
1°	2423.4	2406.1	2403.6	2426.0	2420.9
2°	2404.1	2387.7	2385.2	2407.6	2403.0
3°	2382.6	2367.9	2362.8	2386.2	2383.2
4°	2354.1	2340.3	2335.7	2359.2	2356.6
5°	2314.3	2300.0	2297.0	2319.9	2317.9
6°	2265.3	2253.6	2248.0	2271.0	2266.9
7°	2204.1	2193.4	2187.3	2204.1	2206.2
8°	2124.6	2119.5	2112.4	2129.2	2129.2
9°	2039.9	2035.3	2027.7	2043.0	2043.0
10°	1949.2	1946.1	1936.9	1951.2	1951.2
11°	1849.7	1848.2	1841.6	1853.3	1853.3
12°	1745.2	1748.7	1742.6	1752.8	1749.2
13°	1640.6	1639.1	1639.6	1647.2	1641.6
14°	1522.3	1531.5	1533.0	1537.6	1528.9
15°	1409.1	1420.8	1418.3	1424.9	1413.7
16°	1293.3	1306.6	1306.1	1307.6	1296.9
17°	1185.2	1192.9	1193.4	1191.8	1178.6
18°	1069.9	1080.7	1080.7	1078.1	1062.3
19°	957.2	965.4	971.0	965.4	947.0
20°	855.8	861.4	871.6	857.3	836.9
21°	758.3	763.4	772.1	755.3	732.8
22°	665.0	671.6	679.8	660.4	637.0
23°	577.8	593.1	596.2	569.7	549.8
24°	497.7	515.1	520.2	493.2	472.2
25°	426.3	445.7	457.5	425.8	404.9
26°	364.6	383.5	397.8	366.2	346.3
27°	310.6	330.5	345.3	315.7	296.8
28°	264.2	283.6	298.9	271.3	253.5
29°	229.5	240.7	256.0	233.1	216.7
30°	195.3	207.6	223.9	200.4	186.1
32.5°	134.1	140.8	153.5	139.2	128.0
35°	95.4	99.4	105.6	95.9	89.2
37.5°	67.8	69.9	73.4	67.8	64.3
40°	50.0	51.0	52.5	49.5	47.4
42.5°	37.2	37.7	37.7	36.7	35.7
45°	28.0	28.6	28.0	28.0	27.0
47.5°	20.4	21.9	21.4	21.4	19.9
50°	13.3	16.3	16.3	15.8	13.3
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)