

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: P283660

Luminaire Tested: **LDA2B159024D010 EU2B15FL409024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283660
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 898.8 lumens
Efficiency: N/A
Efficacy: 63.7 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

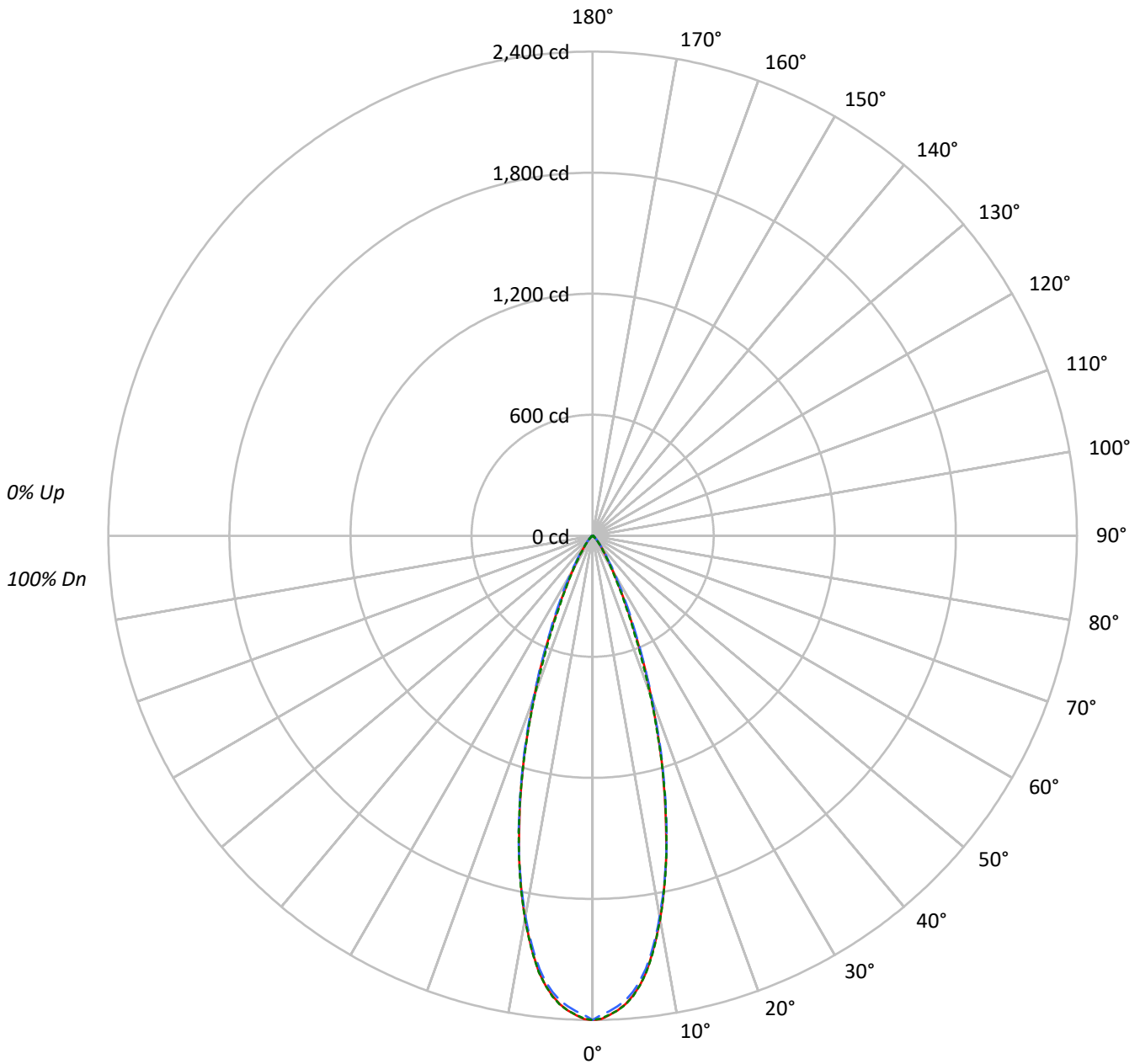
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1184216	1184216	1184216
5°	1133272	1124804	1135055
10°	965525	959463	966527
15°	711650	716247	713948
20°	444223	452466	434458
25°	229504	246216	217964
30°	110006	126128	104879
35°	56795	62878	53121
40°	31815	33426	30205
45°	19327	19327	18629
50°	10055	12357	10055
55°	5247	8257	5677
60°	6019	6019	6019
65°	6421	6421	6421
70°	7934	7212	7934
75°	7625	7625	7625
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	23.0
10°-20°	379.2	42.2
20°-30°	205.6	22.9
30°-40°	66.0	7.3
40°-50°	22.5	2.5
50°-60°	7.9	0.9
60°-70°	5.7	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°	791.3	88.0
0°-40°	857.3	95.4
0°-60°	887.7	98.8
0°-90°	898.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2288	2274	2271	2294	2292	207
15°	1393	1405	1402	1409	1398	378
25°	422	441	452	421	400	202
35°	94	98	104	95	88	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°	2400.3	2400.3	2400.3	2400.3	2400.3
1°	2396.2	2379.1	2376.6	2398.8	2393.7
2°	2377.1	2360.9	2358.4	2380.6	2376.1
3°	2355.9	2341.3	2336.2	2359.4	2356.4
4°	2327.7	2314.0	2309.5	2332.7	2330.2
5°	2288.3	2274.2	2271.2	2293.9	2291.9
6°	2239.9	2228.3	2222.8	2245.5	2241.4
7°	2179.4	2168.8	2162.8	2179.4	2181.4
8°	2100.7	2095.7	2088.6	2105.3	2105.3
9°	2017.0	2012.5	2004.9	2020.1	2020.1
10°	1927.3	1924.3	1915.2	1929.3	1929.3
11°	1829.0	1827.4	1820.9	1832.5	1832.5
12°	1725.6	1729.1	1723.1	1733.1	1729.6
13°	1622.2	1620.7	1621.2	1628.8	1623.2
14°	1505.2	1514.3	1515.8	1520.3	1511.8
15°	1393.3	1404.9	1402.3	1408.9	1397.8
16°	1278.8	1291.9	1291.4	1292.9	1282.3
17°	1171.9	1179.5	1180.0	1178.5	1165.3
18°	1057.9	1068.5	1068.5	1066.0	1050.4
19°	946.5	954.6	960.1	954.6	936.4
20°	846.1	851.7	861.8	847.7	827.5
21°	749.8	754.9	763.4	746.8	724.6
22°	657.6	664.1	672.2	653.0	629.8
23°	571.3	586.5	589.5	563.3	543.6
24°	492.2	509.3	514.3	487.6	466.9
25°	421.6	440.7	452.3	421.1	400.4
26°	360.5	379.2	393.3	362.1	342.4
27°	307.1	326.8	341.4	312.1	293.5
28°	261.2	280.4	295.5	268.3	250.6
29°	226.9	238.0	253.1	230.4	214.3
30°	193.1	205.2	221.4	198.2	184.1
32.5°	132.6	139.2	151.8	137.7	126.6
35°	94.3	98.3	104.4	94.8	88.2
37.5°	67.1	69.1	72.6	67.1	63.5
40°	49.4	50.4	51.9	48.9	46.9
42.5°	36.8	37.3	37.3	36.3	35.3
45°	27.7	28.2	27.7	27.7	26.7
47.5°	20.2	21.7	21.2	21.2	19.7
50°	13.1	16.1	16.1	15.6	13.1
52.5°	8.1	11.1	12.6	11.1	8.6
55°	6.1	7.6	9.6	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°	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	5.0	5.5	5.5
72.5°	5.0	5.0	4.5	5.0	4.5
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
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°	5.5	6.1	5.5	6.1	5.5



(END OF REPORT)