

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: P283663

Luminaire Tested: **LDA2B159024D010 EU2B15FL409024 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283663
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 839.1 lumens
Efficiency: N/A
Efficacy: 59.5 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

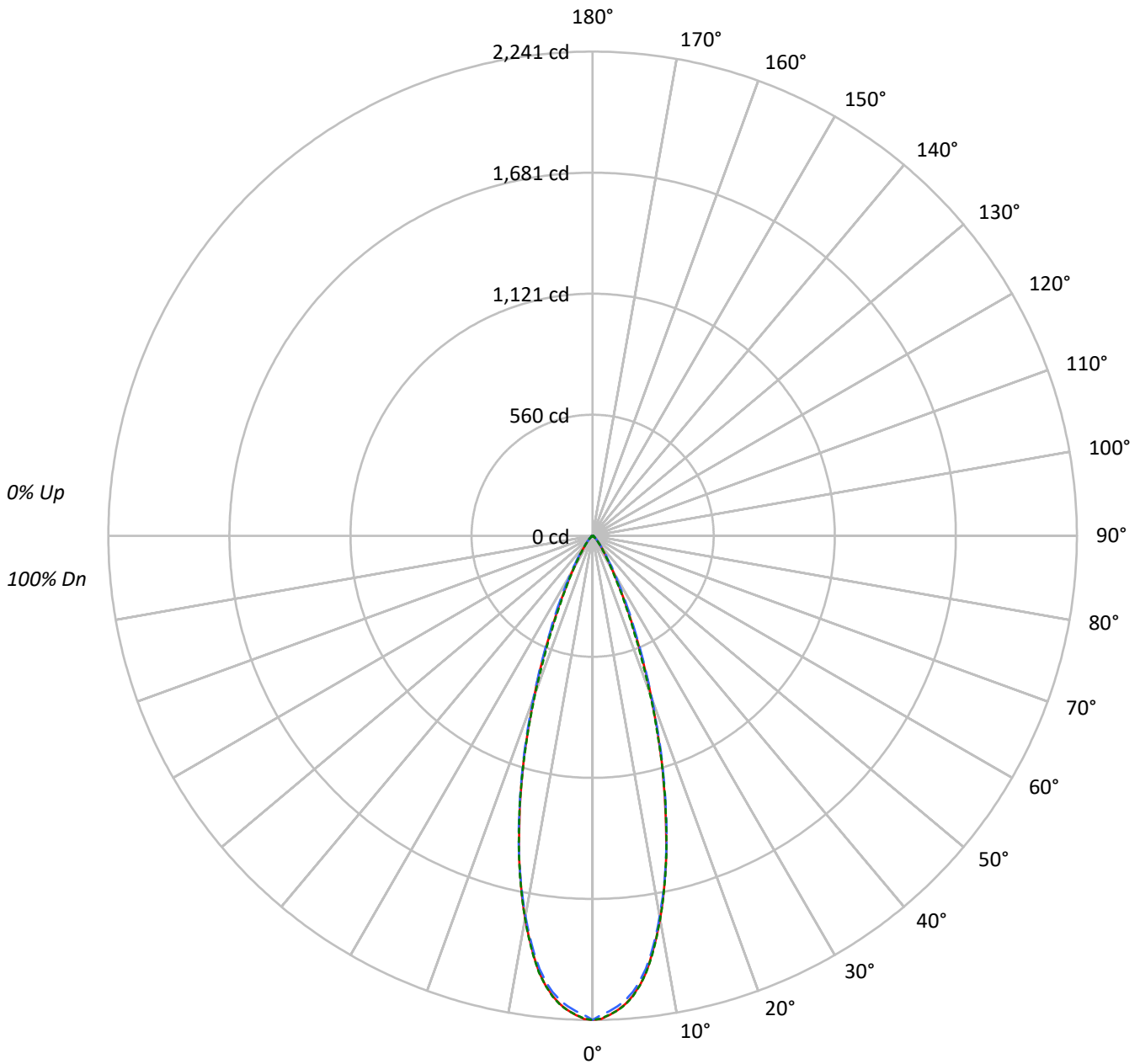
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1105574	1105574	1105574
5°	1058044	1050120	1059679
10°	901400	895739	902352
15°	664404	668694	666549
20°	414769	422435	405582
25°	214262	229885	203483
30°	102714	117754	97872
35°	53001	58723	49628
40°	29690	31236	28209
45°	18071	18071	17443
50°	9364	11590	9364
55°	4817	7655	5247
60°	5526	5526	5526
65°	6070	6070	6070
70°	7501	6780	7501
75°	7244	7244	7244
80°	6819	6819	6819
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	23.0
10°-20°	354.1	42.2
20°-30°	191.9	22.9
30°-40°	61.6	7.3
40°-50°	21.0	2.5
50°-60°	7.3	0.9
60°-70°	5.3	0.6
70°-80°	3.9	0.5
80°-90°	1.1	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°	738.8	88.0
0°-40°	800.4	95.4
0°-60°	828.7	98.8
0°-90°	839.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2241	2241	2241	2241	2241	
5°	2136	2123	2120	2142	2140	193
15°	1301	1312	1309	1315	1305	353
25°	394	412	422	393	374	189
35°	88	92	98	88	82	59
45°	26	26	26	26	25	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
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°	2240.9	2240.9	2240.9	2240.9	2240.9
1°	2237.1	2221.1	2218.8	2239.5	2234.8
2°	2219.2	2204.2	2201.8	2222.5	2218.3
3°	2199.5	2185.8	2181.1	2202.8	2199.9
4°	2173.1	2160.4	2156.2	2177.8	2175.5
5°	2136.4	2123.2	2120.4	2141.6	2139.7
6°	2091.2	2080.4	2075.2	2096.4	2092.6
7°	2034.7	2024.8	2019.2	2034.7	2036.6
8°	1961.3	1956.5	1950.0	1965.5	1965.5
9°	1883.1	1878.9	1871.8	1885.9	1885.9
10°	1799.3	1796.5	1788.0	1801.2	1801.2
11°	1707.5	1706.1	1700.0	1710.8	1710.8
12°	1611.0	1614.3	1608.6	1618.1	1614.8
13°	1514.5	1513.1	1513.5	1520.6	1515.4
14°	1405.3	1413.7	1415.2	1419.4	1411.4
15°	1300.8	1311.6	1309.2	1315.3	1305.0
16°	1193.9	1206.1	1205.7	1207.1	1197.2
17°	1094.1	1101.1	1101.6	1100.2	1088.0
18°	987.7	997.6	997.6	995.2	980.6
19°	883.6	891.2	896.4	891.2	874.2
20°	790.0	795.1	804.6	791.4	772.5
21°	700.0	704.8	712.8	697.2	676.5
22°	613.9	620.0	627.5	609.7	588.0
23°	533.4	547.5	550.3	525.9	507.5
24°	459.5	475.5	480.2	455.2	435.9
25°	393.6	411.5	422.3	393.1	373.8
26°	336.6	354.0	367.2	338.0	319.7
27°	286.7	305.1	318.7	291.4	274.0
28°	243.9	261.8	275.9	250.5	234.0
29°	211.8	222.2	236.3	215.1	200.1
30°	180.3	191.6	206.7	185.0	171.8
32.5°	123.8	129.9	141.7	128.5	118.2
35°	88.0	91.8	97.5	88.5	82.4
37.5°	62.6	64.5	67.8	62.6	59.3
40°	46.1	47.1	48.5	45.7	43.8
42.5°	34.4	34.8	34.8	33.9	33.0
45°	25.9	26.4	25.9	25.9	25.0
47.5°	18.8	20.2	19.8	19.8	18.4
50°	12.2	15.1	15.1	14.6	12.2
52.5°	7.5	10.4	11.8	10.4	8.0
55°	5.6	7.1	8.9	7.1	6.1
57.5°	5.6	5.6	6.6	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	4.7	5.2	5.2
72.5°	4.7	4.7	4.2	4.7	4.2
75°	3.8	3.8	3.8	3.8	3.8
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.4	1.4	1.4	1.9	1.4
85°	0.9	0.9	0.9	0.9	0.9
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°	5.6	5.6	5.6	5.6	5.6
65°	5.2	5.6	5.2	5.6	5.2



(END OF REPORT)