

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: P283662

Luminaire Tested: **LDA2B159024D010 EU2B15FL409024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283662
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 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: 826.4 lumens
Efficiency: N/A
Efficacy: 58.6 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

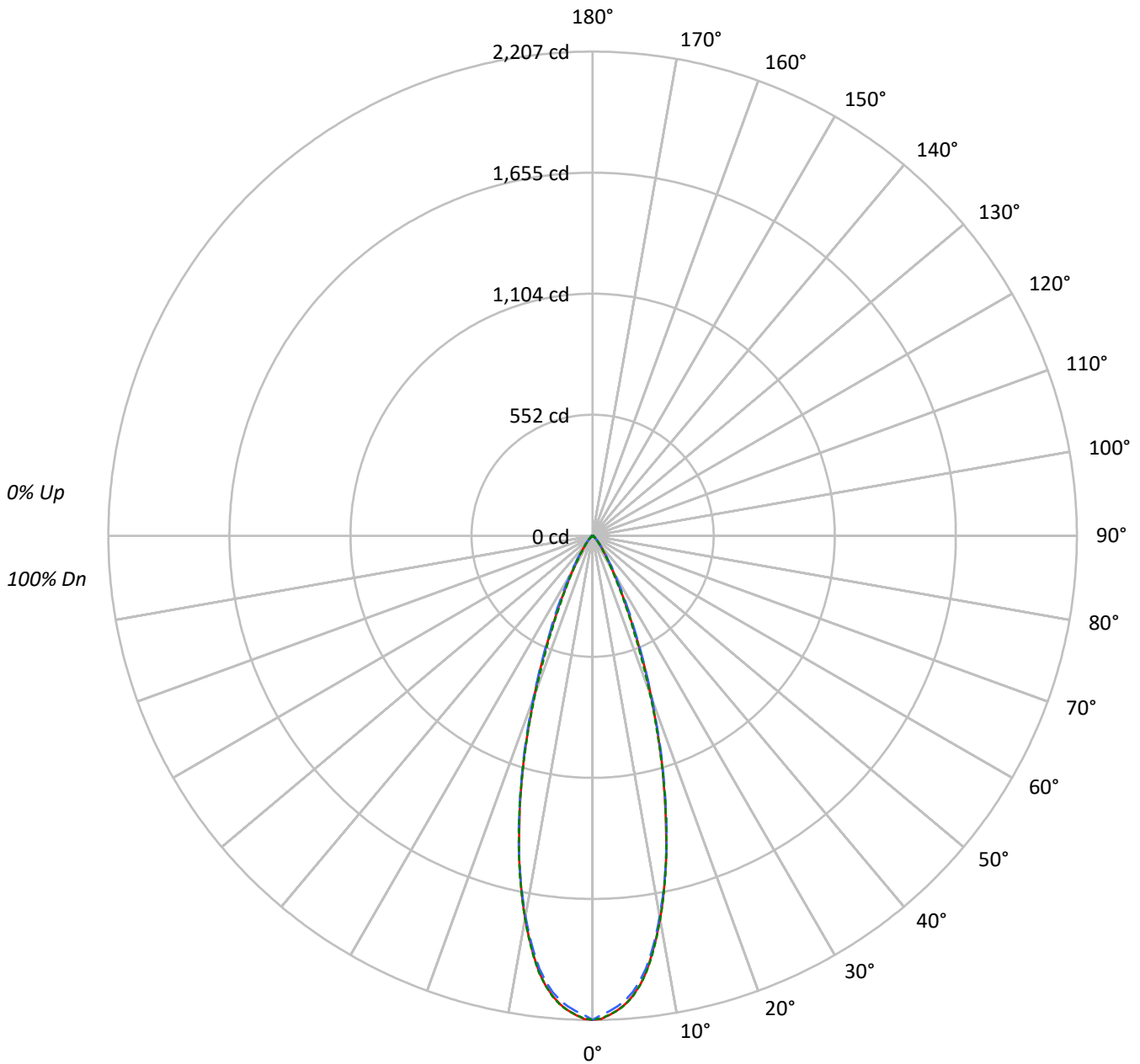
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1088751	1088751	1088751
5°	1041949	1034173	1043583
10°	887724	882113	888625
15°	654291	658530	656436
20°	408469	415977	399439
25°	210996	226401	200381
30°	101176	115931	96391
35°	52218	57819	48845
40°	29239	30785	27758
45°	17792	17792	17164
50°	9287	11360	9287
55°	4817	7569	5161
60°	5526	5526	5526
65°	5954	5954	5954
70°	7357	6635	7357
75°	7053	7053	7053
80°	6535	6535	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	23.0
10°-20°	348.7	42.2
20°-30°	189.0	22.9
30°-40°	60.7	7.3
40°-50°	20.7	2.5
50°-60°	7.3	0.9
60°-70°	5.3	0.6
70°-80°	3.8	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°	727.5	88.0
0°-40°	788.2	95.4
0°-60°	816.2	98.8
0°-90°	826.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2207	2207	2207	2207	2207	
5°	2104	2091	2088	2109	2107	190
15°	1281	1292	1289	1295	1285	347
25°	388	405	416	387	368	186
35°	87	90	96	87	81	58
45°	26	26	26	26	25	20
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°	2206.8	2206.8	2206.8	2206.8	2206.8
1°	2203.1	2187.4	2185.0	2205.4	2200.8
2°	2185.5	2170.7	2168.4	2188.8	2184.6
3°	2166.0	2152.6	2148.0	2169.3	2166.5
4°	2140.1	2127.6	2123.4	2144.7	2142.4
5°	2103.9	2090.9	2088.2	2109.0	2107.2
6°	2059.4	2048.7	2043.6	2064.5	2060.8
7°	2003.8	1994.0	1988.5	2003.8	2005.6
8°	1931.4	1926.8	1920.3	1935.6	1935.6
9°	1854.5	1850.3	1843.4	1857.3	1857.3
10°	1772.0	1769.2	1760.8	1773.8	1773.8
11°	1681.6	1680.2	1674.1	1684.8	1684.8
12°	1586.5	1589.8	1584.2	1593.5	1590.2
13°	1491.5	1490.1	1490.5	1497.5	1492.4
14°	1383.9	1392.3	1393.6	1397.8	1389.9
15°	1281.0	1291.6	1289.3	1295.4	1285.2
16°	1175.7	1187.8	1187.3	1188.7	1179.0
17°	1077.5	1084.4	1084.9	1083.5	1071.4
18°	972.7	982.4	982.4	980.1	965.7
19°	870.2	877.6	882.7	877.6	860.9
20°	778.0	783.1	792.3	779.3	760.8
21°	689.4	694.0	701.9	686.6	666.2
22°	604.6	610.6	618.0	600.4	579.1
23°	525.3	539.2	542.0	517.9	499.8
24°	452.5	468.3	472.9	448.3	429.3
25°	387.6	405.2	415.9	387.1	368.1
26°	331.5	348.6	361.6	332.9	314.8
27°	282.3	300.4	313.9	287.0	269.8
28°	240.2	257.8	271.7	246.6	230.4
29°	208.6	218.8	232.7	211.9	197.0
30°	177.6	188.7	203.5	182.2	169.2
32.5°	121.9	128.0	139.6	126.6	116.4
35°	86.7	90.4	96.0	87.2	81.1
37.5°	61.7	63.5	66.8	61.7	58.4
40°	45.4	46.4	47.8	45.0	43.1
42.5°	33.8	34.3	34.3	33.4	32.5
45°	25.5	26.0	25.5	25.5	24.6
47.5°	18.5	19.9	19.5	19.5	18.1
50°	12.1	14.8	14.8	14.4	12.1
52.5°	7.4	10.2	11.6	10.2	7.9
55°	5.6	7.0	8.8	7.0	6.0
57.5°	5.6	5.6	6.5	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°	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	4.6	5.1	5.1
72.5°	4.6	4.6	4.2	4.6	4.2
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	2.3	2.3	2.3
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°	5.1	5.6	5.1	5.6	5.1



(END OF REPORT)