

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: P284000

Luminaire Tested: **LDA2B159027D010 EU2B15WFL559027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159027D010 EU2B15WFL559027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1024.9 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

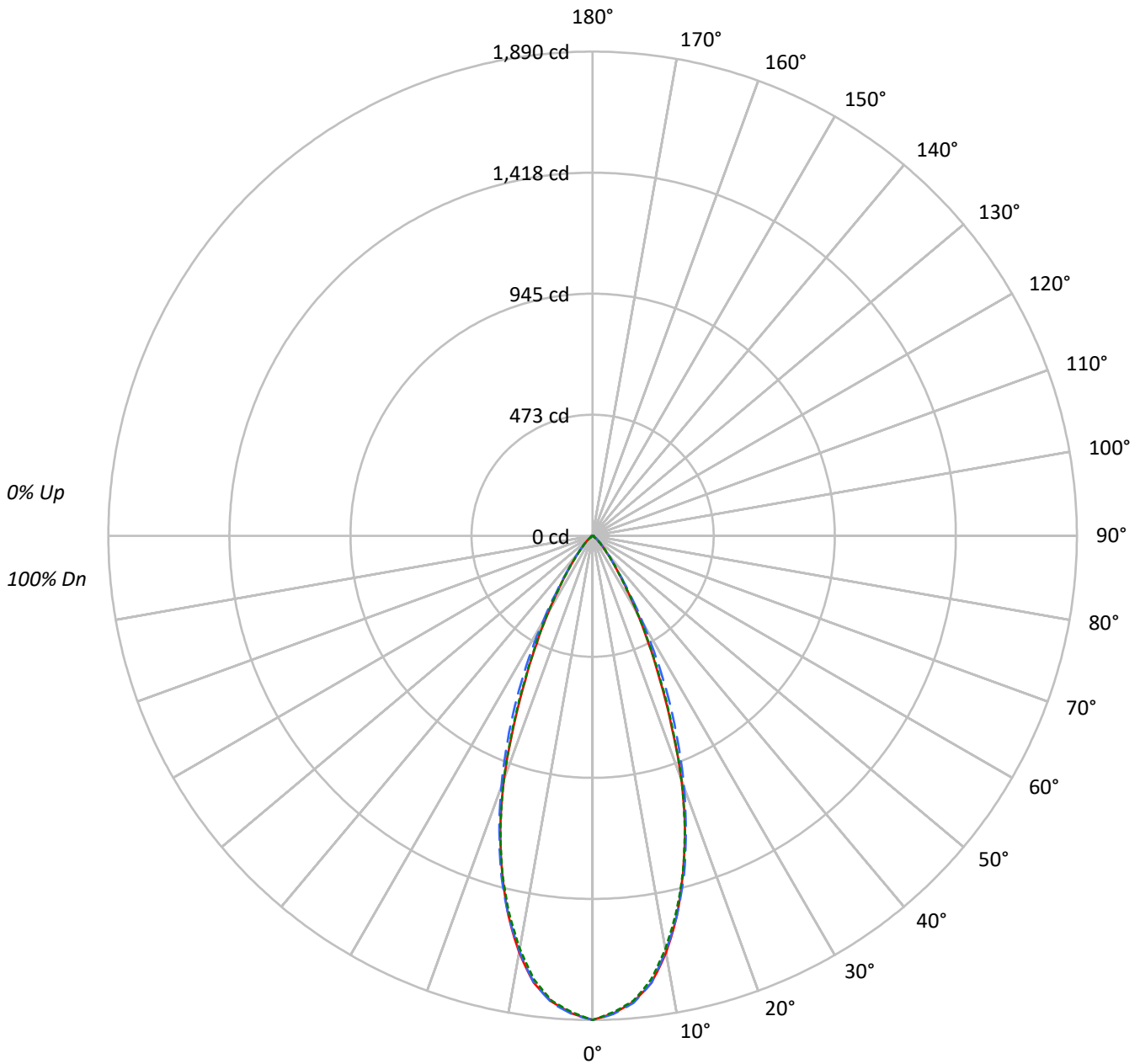
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	932404	932404	932404
5°	904369	906548	902487
10°	827807	824501	819541
15°	696327	702763	695203
20°	532480	546603	531640
25°	338159	381218	344746
30°	196655	222006	200130
35°	103954	110579	104316
40°	54872	57384	54872
45°	30700	31816	31048
50°	14353	18114	14353
55°	5161	9892	5677
60°	5920	5920	5920
65°	6421	7004	6421
70°	7934	7068	7934
75°	7244	7244	7244
80°	7671	6251	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	16.5
10°-20°	375.6	36.6
20°-30°	303.3	29.6
30°-40°	119.9	11.7
40°-50°	36.8	3.6
50°-60°	9.5	0.9
60°-70°	5.7	0.6
70°-80°	4.2	0.4
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°	847.7	82.7
0°-40°	967.6	94.4
0°-60°	1013.8	98.9
0°-90°	1024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1890	1890	1890	1890	1890	
5°	1826	1829	1830	1827	1822	169
15°	1363	1367	1376	1370	1361	374
25°	621	651	700	663	633	289
35°	173	178	184	178	173	116
45°	44	44	46	45	44	36
55°	6	8	12	8	7	8
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°	1889.9	1889.9	1889.9	1889.9	1889.9
2.5°	1866.2	1867.3	1869.0	1866.8	1861.3
5°	1826.1	1829.4	1830.5	1826.7	1822.3
7.5°	1760.1	1756.3	1759.6	1753.0	1747.5
10°	1652.4	1647.5	1645.8	1635.9	1635.9
12.5°	1519.4	1517.7	1518.8	1513.9	1506.2
15°	1363.3	1367.1	1375.9	1370.4	1361.1
17.5°	1197.8	1203.3	1211.0	1209.3	1196.7
20°	1014.2	1030.1	1041.1	1030.7	1012.6
22.5°	805.3	839.4	867.4	845.4	815.8
25°	621.2	650.8	700.3	662.9	633.3
27.5°	471.1	492.5	537.6	500.8	480.4
30°	345.2	358.4	389.7	365.6	351.3
32.5°	246.8	256.2	269.4	255.1	247.9
35°	172.6	177.6	183.6	178.1	173.2
37.5°	121.5	123.1	127.5	123.1	120.9
40°	85.2	85.8	89.1	86.3	85.2
42.5°	61.6	61.6	63.2	62.1	61.6
45°	44.0	44.5	45.6	45.1	44.5
47.5°	31.3	32.4	32.4	33.0	30.8
50°	18.7	23.1	23.6	23.1	18.7
52.5°	9.9	13.7	17.0	13.7	9.9
55°	6.0	8.2	11.5	8.2	6.6
57.5°	6.0	6.0	7.7	6.6	6.0
60°	6.0	6.0	6.0	6.0	6.0
62.5°	6.0	6.0	6.0	6.0	6.0
65°	5.5	6.0	6.0	6.0	5.5
67.5°	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	4.9	5.5	5.5
72.5°	4.9	4.9	4.4	4.9	4.9
75°	3.8	3.8	3.8	3.8	3.8
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.7	2.7	2.2	2.7	2.7
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.1	1.1	1.1	1.1	1.1
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°







(END OF REPORT)