

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: P284022

Luminaire Tested: **LDA2B159040D010 EU2B15WFL559040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284022
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: LDA2B159040D010 EU2B15WFL559040 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1022.5 lumens
Efficiency: N/A
Efficacy: 72.5 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

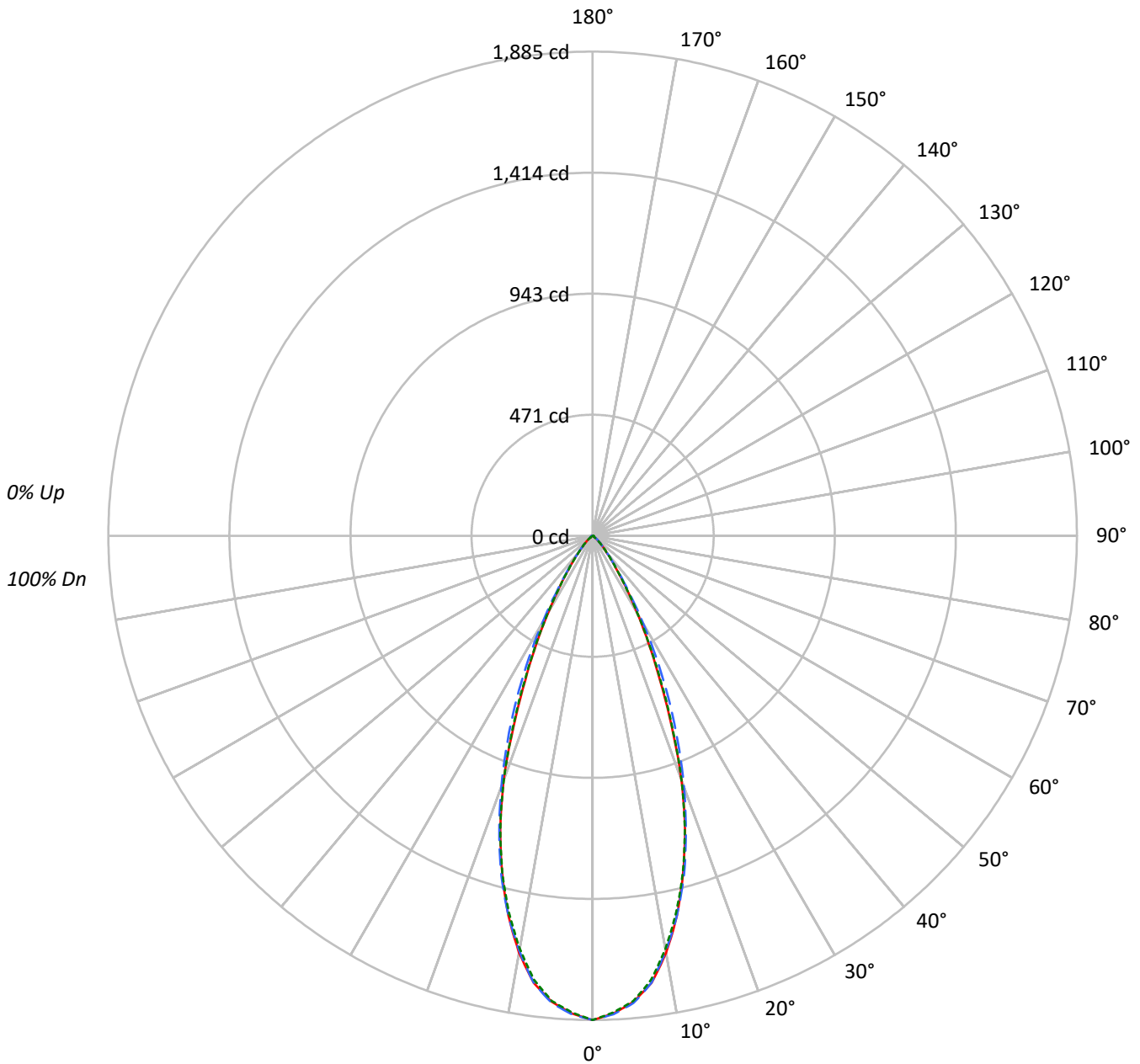
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	930135	930135	930135
5°	902190	904369	900308
10°	825803	822547	817587
15°	694641	701077	693518
20°	531220	545291	530327
25°	337343	380293	343875
30°	196200	221494	199618
35°	103713	110338	104014
40°	54743	57191	54743
45°	30630	31746	30979
50°	14276	18114	14276
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°	168.3	16.5
10°-20°	374.7	36.6
20°-30°	302.6	29.6
30°-40°	119.6	11.7
40°-50°	36.7	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°	845.6	82.7
0°-40°	965.2	94.4
0°-60°	1011.4	98.9
0°-90°	1022.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1822	1825	1826	1822	1818	169
15°	1360	1364	1373	1367	1358	374
25°	620	649	699	661	632	288
35°	172	177	183	178	173	115
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°	1885.3	1885.3	1885.3	1885.3	1885.3
2.5°	1861.8	1862.9	1864.5	1862.3	1856.8
5°	1821.7	1825.0	1826.1	1822.3	1817.9
7.5°	1755.9	1752.1	1755.4	1748.8	1743.3
10°	1648.4	1643.5	1641.9	1632.0	1632.0
12.5°	1515.7	1514.1	1515.2	1510.3	1502.6
15°	1360.0	1363.8	1372.6	1367.1	1357.8
17.5°	1194.9	1200.4	1208.1	1206.4	1193.8
20°	1011.8	1027.7	1038.6	1028.2	1010.1
22.5°	803.4	837.4	865.4	843.4	813.8
25°	619.7	649.3	698.6	661.4	631.7
27.5°	470.0	491.4	536.3	499.6	479.3
30°	344.4	357.5	388.8	364.7	350.4
32.5°	246.2	255.5	268.7	254.5	247.3
35°	172.2	177.1	183.2	177.7	172.7
37.5°	121.2	122.8	127.2	122.8	120.6
40°	85.0	85.5	88.8	86.1	85.0
42.5°	61.4	61.4	63.1	62.0	61.4
45°	43.9	44.4	45.5	45.0	44.4
47.5°	31.3	32.4	32.4	32.9	30.7
50°	18.6	23.0	23.6	23.0	18.6
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)