

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: P284041

Luminaire Tested: **LDA2B159730D010 EU2B15WFL559730 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284041
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: LDA2B159730D010 EU2B15WFL559730 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 900.5 lumens
Efficiency: N/A
Efficacy: 63.9 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

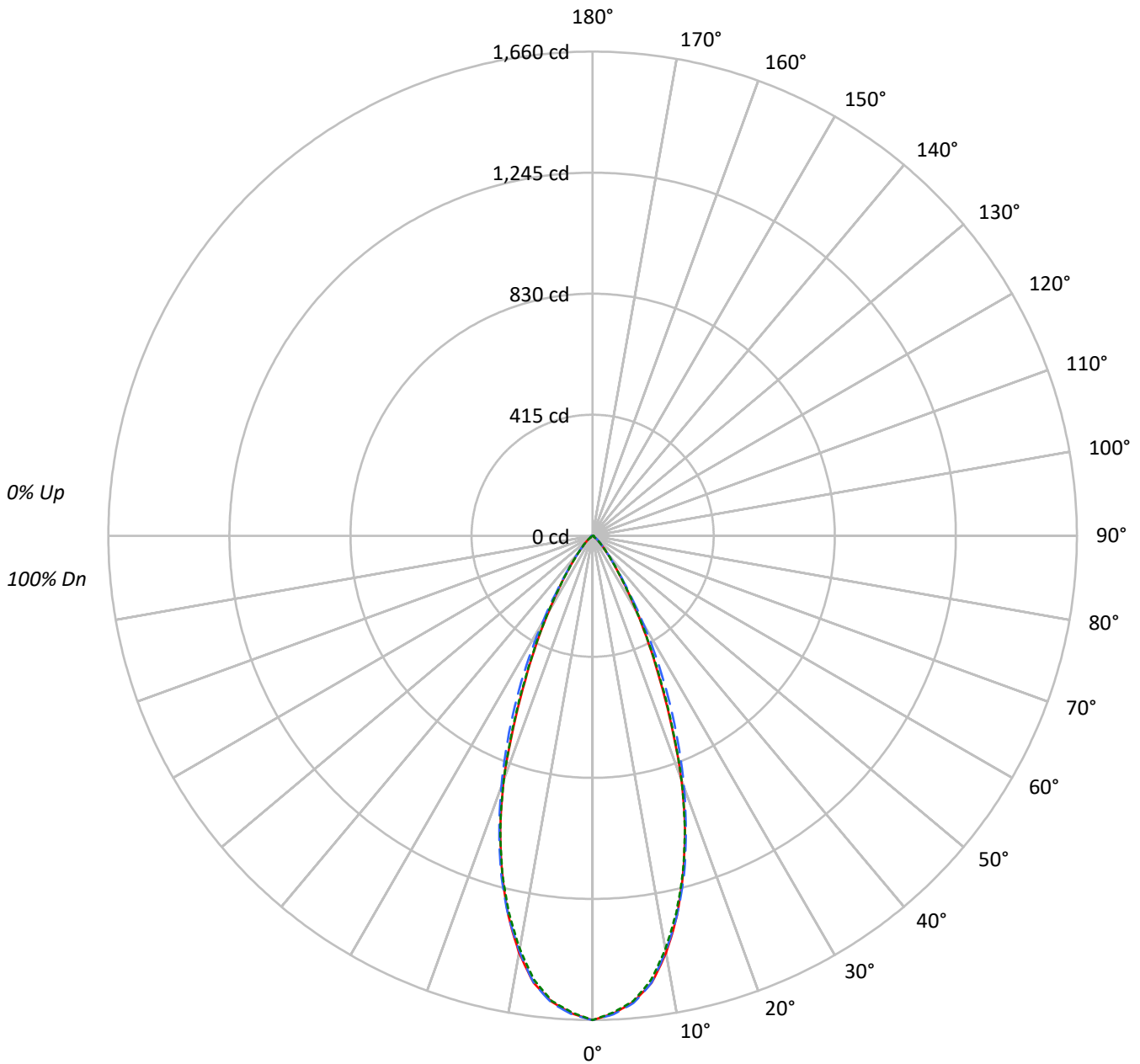
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	819178	819178	819178
5°	794524	796455	792840
10°	727262	724356	719998
15°	611744	617414	610774
20°	467797	480240	467062
25°	297060	334947	302830
30°	172785	195060	175805
35°	91306	97148	91607
40°	48238	50364	48238
45°	26932	27979	27281
50°	12588	15965	12588
55°	4559	8688	4989
60°	5230	5230	5230
65°	5603	6187	5603
70°	6924	6203	6924
75°	6481	6481	6481
80°	6819	5398	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	16.5
10°-20°	330.0	36.6
20°-30°	266.5	29.6
30°-40°	105.3	11.7
40°-50°	32.3	3.6
50°-60°	8.3	0.9
60°-70°	5.0	0.6
70°-80°	3.7	0.4
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°	744.7	82.7
0°-40°	850.1	94.4
0°-60°	890.7	98.9
0°-90°	900.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	900.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1604	1607	1608	1605	1601	148
15°	1198	1201	1209	1204	1196	329
25°	546	572	615	582	556	254
35°	152	156	161	156	152	102
45°	39	39	40	40	39	32
55°	5	7	10	7	6	7
65°	5	5	5	5	5	5
75°	3	3	3	3	3	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°	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1639.6	1640.6	1642.0	1640.1	1635.2
5°	1604.3	1607.2	1608.2	1604.8	1600.9
7.5°	1546.4	1543.0	1545.9	1540.1	1535.3
10°	1451.7	1447.4	1445.9	1437.2	1437.2
12.5°	1334.8	1333.4	1334.4	1330.0	1323.3
15°	1197.7	1201.1	1208.8	1204.0	1195.8
17.5°	1052.3	1057.2	1063.9	1062.5	1051.4
20°	891.0	905.0	914.7	905.5	889.6
22.5°	707.5	737.5	762.1	742.8	716.7
25°	545.7	571.8	615.3	582.4	556.3
27.5°	413.9	432.7	472.3	440.0	422.1
30°	303.3	314.9	342.4	321.2	308.6
32.5°	216.8	225.1	236.6	224.1	217.8
35°	151.6	156.0	161.3	156.5	152.1
37.5°	106.7	108.2	112.0	108.2	106.2
40°	74.9	75.3	78.2	75.8	74.9
42.5°	54.1	54.1	55.5	54.6	54.1
45°	38.6	39.1	40.1	39.6	39.1
47.5°	27.5	28.5	28.5	29.0	27.0
50°	16.4	20.3	20.8	20.3	16.4
52.5°	8.7	12.1	15.0	12.1	8.7
55°	5.3	7.2	10.1	7.2	5.8
57.5°	5.3	5.3	6.8	5.8	5.3
60°	5.3	5.3	5.3	5.3	5.3
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.8	5.3	5.3	5.3	4.8
67.5°	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.3	4.8	4.8
72.5°	4.3	4.3	3.9	4.3	4.3
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	1.9	2.4	2.4
82.5°	1.4	1.4	1.4	1.4	1.4
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°







(END OF REPORT)