

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: P284036

Luminaire Tested: **LDA2B159730D010 EU2B15WFL559730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284036
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 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: 981.7 lumens
Efficiency: N/A
Efficacy: 69.6 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

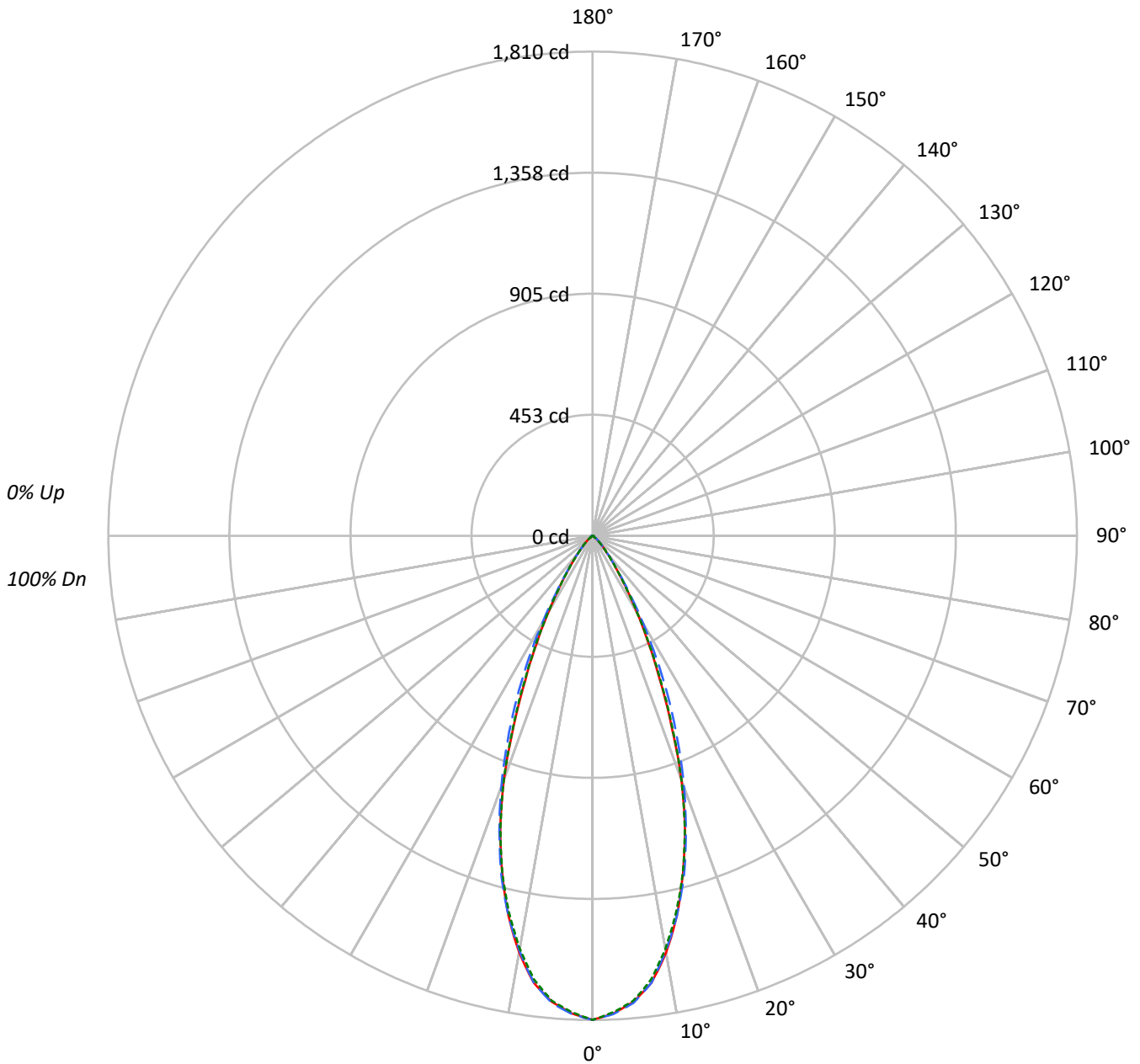
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	892886	892886	892886
5°	866037	868117	864205
10°	792739	789583	784824
15°	666805	672985	665732
20°	509904	523450	509064
25°	323788	365051	330103
30°	188338	212606	191642
35°	99557	105881	99859
40°	52554	54936	52554
45°	29374	30490	29723
50°	13739	17346	13739
55°	4989	9548	5419
60°	5723	5723	5723
65°	6187	6771	6187
70°	7645	6780	7645
75°	7053	7053	7053
80°	7387	5966	7387
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	16.5
10°-20°	359.7	36.6
20°-30°	290.5	29.6
30°-40°	114.8	11.7
40°-50°	35.3	3.6
50°-60°	9.1	0.9
60°-70°	5.5	0.6
70°-80°	4.0	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°	811.7	82.7
0°-40°	926.6	94.4
0°-60°	970.9	98.9
0°-90°	981.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1749	1752	1753	1749	1745	162
15°	1306	1309	1318	1312	1303	359
25°	595	623	671	635	606	277
35°	165	170	176	171	166	111
45°	42	43	44	43	43	34
55°	6	8	11	8	6	7
65°	5	6	6	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°	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	1787.2	1788.2	1789.8	1787.7	1782.4
5°	1748.7	1751.9	1752.9	1749.3	1745.0
7.5°	1685.6	1681.9	1685.0	1678.7	1673.5
10°	1582.4	1577.6	1576.1	1566.6	1566.6
12.5°	1455.0	1453.4	1454.5	1449.7	1442.4
15°	1305.5	1309.2	1317.6	1312.3	1303.4
17.5°	1147.0	1152.3	1159.7	1158.1	1146.0
20°	971.2	986.5	997.0	987.0	969.6
22.5°	771.2	803.8	830.7	809.6	781.2
25°	594.8	623.3	670.6	634.8	606.4
27.5°	451.1	471.7	514.8	479.6	460.1
30°	330.6	343.2	373.2	350.1	336.4
32.5°	236.4	245.3	257.9	244.3	237.4
35°	165.3	170.0	175.8	170.6	165.8
37.5°	116.3	117.9	122.1	117.9	115.8
40°	81.6	82.1	85.3	82.6	81.6
42.5°	59.0	59.0	60.5	59.5	59.0
45°	42.1	42.6	43.7	43.2	42.6
47.5°	30.0	31.1	31.1	31.6	29.5
50°	17.9	22.1	22.6	22.1	17.9
52.5°	9.5	13.2	16.3	13.2	9.5
55°	5.8	7.9	11.1	7.9	6.3
57.5°	5.8	5.8	7.4	6.3	5.8
60°	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.3	5.8	5.8	5.8	5.3
67.5°	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	4.7	5.3	5.3
72.5°	4.7	4.7	4.2	4.7	4.7
75°	3.7	3.7	3.7	3.7	3.7
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.6	2.6	2.1	2.6	2.6
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)