

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: P284038

Luminaire Tested: **LDA2B159730D010 EU2B15WFL559730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284038
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 972.1 lumens
Efficiency: N/A
Efficacy: 68.9 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

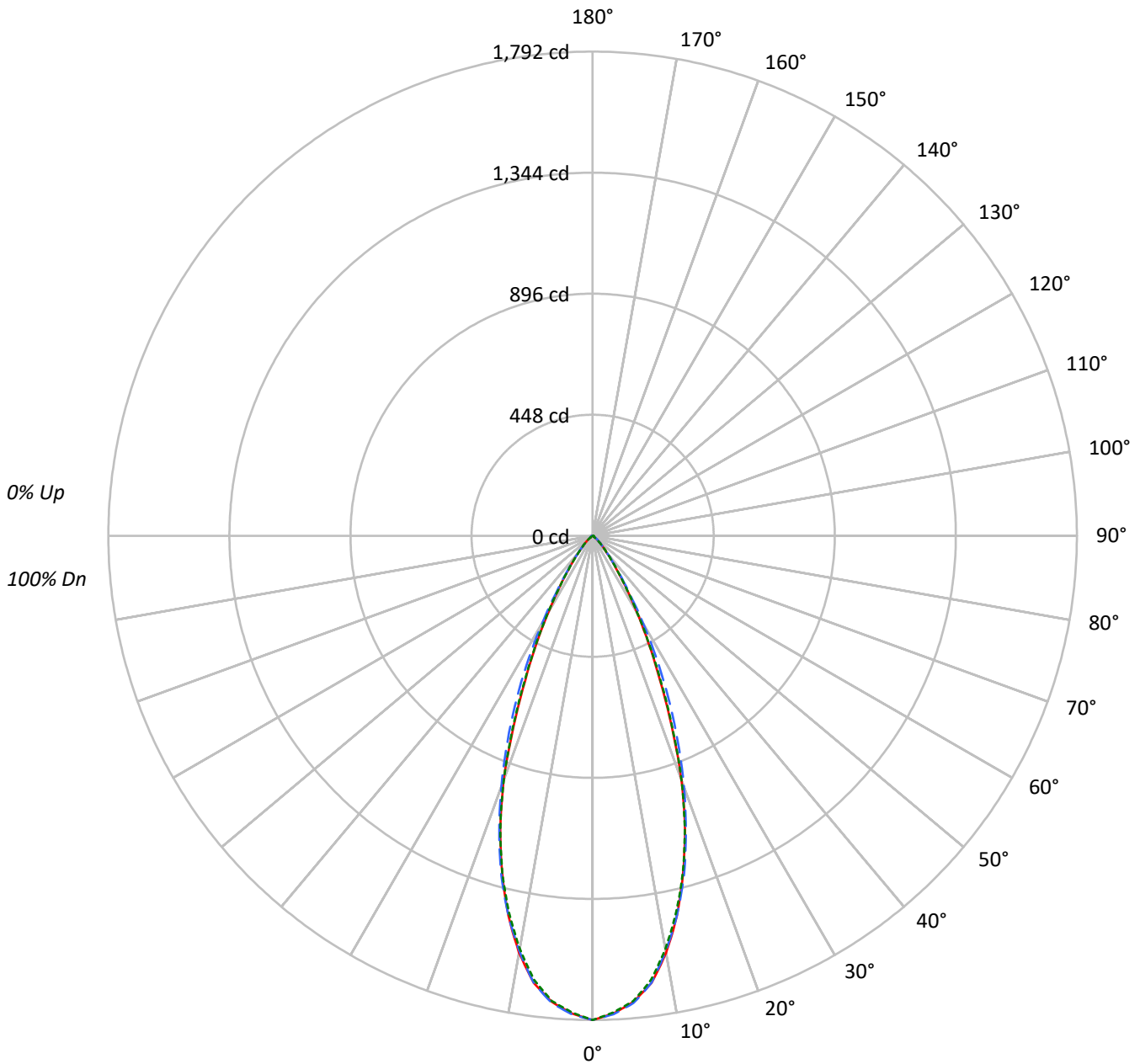
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	884252	884252	884252
5°	857717	859748	855885
10°	785074	781968	777259
15°	660369	666498	659296
20°	504969	518409	504181
25°	320685	361567	326945
30°	186515	210556	189762
35°	98594	104858	98895
40°	52038	54421	52038
45°	29095	30211	29444
50°	13585	17193	13585
55°	4903	9376	5419
60°	5624	5624	5624
65°	6070	6654	6070
70°	7501	6780	7501
75°	6862	6862	6862
80°	7387	5966	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	16.5
10°-20°	356.2	36.6
20°-30°	287.7	29.6
30°-40°	113.7	11.7
40°-50°	34.9	3.6
50°-60°	9.0	0.9
60°-70°	5.4	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°	803.9	82.7
0°-40°	917.6	94.4
0°-60°	961.5	98.9
0°-90°	972.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1732	1735	1736	1732	1728	160
15°	1293	1296	1305	1300	1291	355
25°	589	617	664	629	601	274
35°	164	168	174	169	164	110
45°	42	42	43	43	42	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°	1792.3	1792.3	1792.3	1792.3	1792.3
2.5°	1769.9	1771.0	1772.5	1770.4	1765.2
5°	1731.9	1735.0	1736.0	1732.4	1728.2
7.5°	1669.3	1665.6	1668.8	1662.5	1657.3
10°	1567.1	1562.4	1560.9	1551.5	1551.5
12.5°	1440.9	1439.4	1440.4	1435.7	1428.4
15°	1292.9	1296.5	1304.9	1299.7	1290.8
17.5°	1136.0	1141.2	1148.5	1146.9	1134.9
20°	961.8	977.0	987.4	977.5	960.3
22.5°	763.7	796.1	822.7	801.8	773.7
25°	589.1	617.3	664.2	628.7	600.6
27.5°	446.8	467.1	509.9	474.9	455.6
30°	327.4	339.9	369.6	346.7	333.1
32.5°	234.1	242.9	255.5	241.9	235.1
35°	163.7	168.4	174.1	168.9	164.2
37.5°	115.2	116.8	120.9	116.8	114.7
40°	80.8	81.3	84.5	81.8	80.8
42.5°	58.4	58.4	60.0	58.9	58.4
45°	41.7	42.2	43.3	42.7	42.2
47.5°	29.7	30.8	30.8	31.3	29.2
50°	17.7	21.9	22.4	21.9	17.7
52.5°	9.4	13.0	16.2	13.0	9.4
55°	5.7	7.8	10.9	7.8	6.3
57.5°	5.7	5.7	7.3	6.3	5.7
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.7	5.7	5.7	5.7	5.7
65°	5.2	5.7	5.7	5.7	5.2
67.5°	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	4.7	5.2	5.2
72.5°	4.7	4.7	4.2	4.7	4.7
75°	3.6	3.6	3.6	3.6	3.6
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.1	2.6	2.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.0	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)