

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: P284025

Luminaire Tested: **LDA2B159050D010 EU2B15WFL559050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284025
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: LDA2B159050D010 EU2B15WFL559050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1131.8 lumens
Efficiency: N/A
Efficacy: 80.3 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

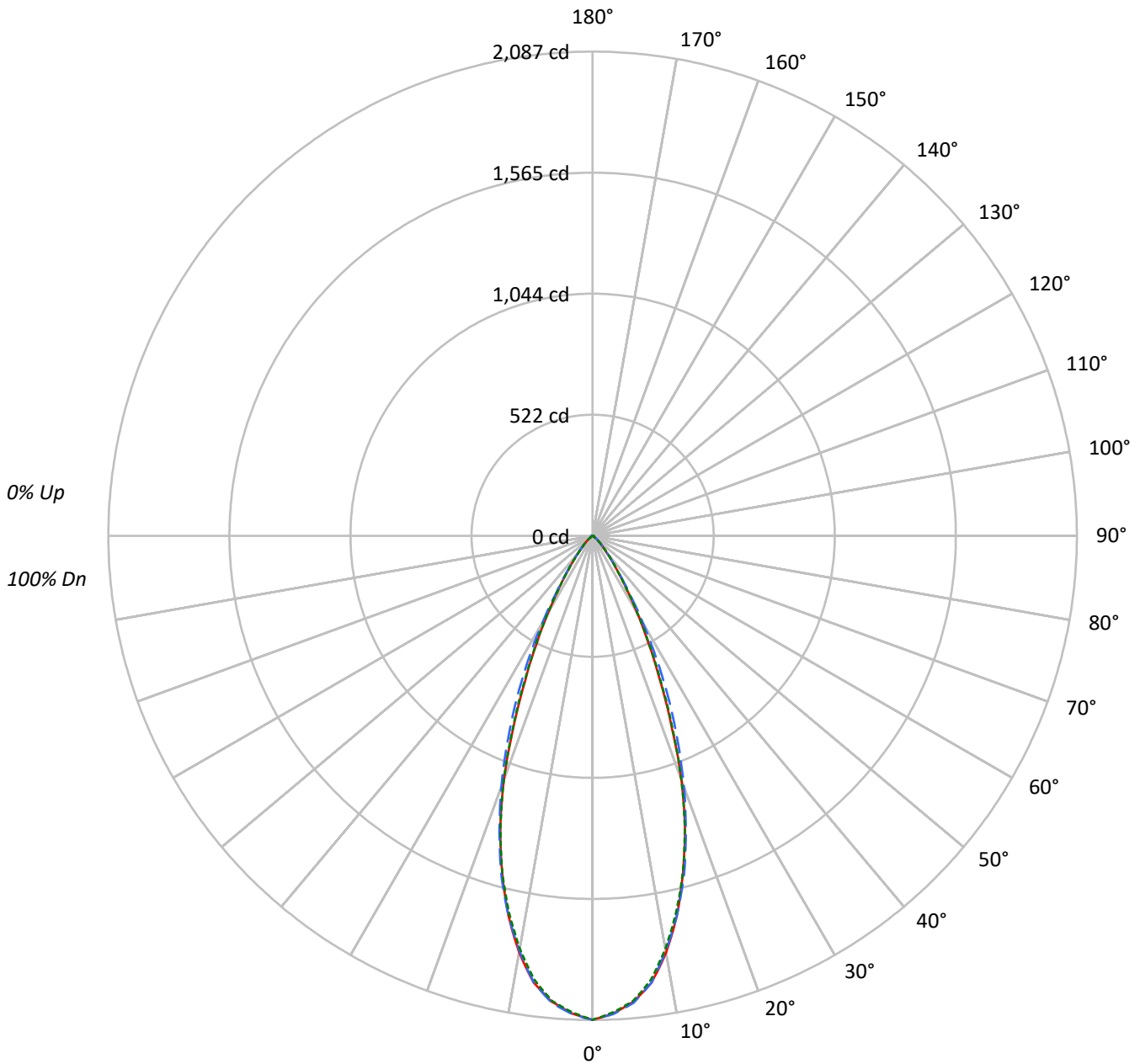
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1029449	1029449	1029449
5°	998516	1000942	996436
10°	913975	910368	904857
15°	768805	775955	767579
20°	587923	603516	586978
25°	373325	420903	380620
30°	217164	245136	220924
35°	114795	122083	115157
40°	60604	63309	60604
45°	33909	35165	34328
50°	15811	20033	15811
55°	5763	10924	6279
60°	6611	6611	6611
65°	7121	7822	7121
70°	8799	7934	8799
75°	8006	8006	8006
80°	8523	6819	8523
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	16.5
10°-20°	414.7	36.6
20°-30°	334.9	29.6
30°-40°	132.4	11.7
40°-50°	40.7	3.6
50°-60°	10.5	0.9
60°-70°	6.4	0.6
70°-80°	4.6	0.4
80°-90°	1.4	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°	935.9	82.7
0°-40°	1068.3	94.4
0°-60°	1119.4	98.9
0°-90°	1131.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2087	2087	2087	2087	2087	
5°	2016	2020	2021	2017	2012	187
15°	1505	1509	1519	1513	1503	413
25°	686	719	773	732	699	319
35°	191	196	203	197	191	128
45°	49	49	50	50	49	40
55°	7	9	13	9	7	8
65°	6	7	7	7	6	6
75°	4	4	4	4	4	5
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°	2086.6	2086.6	2086.6	2086.6	2086.6
2.5°	2060.5	2061.7	2063.6	2061.1	2055.1
5°	2016.2	2019.9	2021.1	2016.8	2012.0
7.5°	1943.4	1939.1	1942.8	1935.5	1929.4
10°	1824.4	1819.0	1817.2	1806.2	1806.2
12.5°	1677.6	1675.7	1677.0	1671.5	1663.0
15°	1505.2	1509.4	1519.2	1513.1	1502.8
17.5°	1322.5	1328.6	1337.1	1335.2	1321.3
20°	1119.8	1137.4	1149.5	1138.0	1118.0
22.5°	889.2	926.8	957.7	933.5	900.7
25°	685.8	718.6	773.2	732.0	699.2
27.5°	520.1	543.8	593.6	552.9	530.5
30°	381.2	395.7	430.3	403.6	387.8
32.5°	272.5	282.8	297.4	281.6	273.7
35°	190.6	196.0	202.7	196.6	191.2
37.5°	134.1	136.0	140.8	136.0	133.5
40°	94.1	94.7	98.3	95.3	94.1
42.5°	68.0	68.0	69.8	68.6	68.0
45°	48.6	49.2	50.4	49.8	49.2
47.5°	34.6	35.8	35.8	36.4	34.0
50°	20.6	25.5	26.1	25.5	20.6
52.5°	10.9	15.2	18.8	15.2	10.9
55°	6.7	9.1	12.7	9.1	7.3
57.5°	6.7	6.7	8.5	7.3	6.7
60°	6.7	6.7	6.7	6.7	6.7
62.5°	6.7	6.7	6.7	6.7	6.7
65°	6.1	6.7	6.7	6.7	6.1
67.5°	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	5.5	6.1	6.1
72.5°	5.5	5.5	4.9	5.5	5.5
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.6	3.6	3.6	3.6	3.6
80°	3.0	3.0	2.4	3.0	3.0
82.5°	1.8	1.8	1.8	1.8	1.8
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)