

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: P284012

Luminaire Tested: **LDA2B159035D010 EU2B15WFL559035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284012
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: LDA2B159035D010 EU2B15WFL559035 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: 1110.3 lumens
Efficiency: N/A
Efficacy: 78.7 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

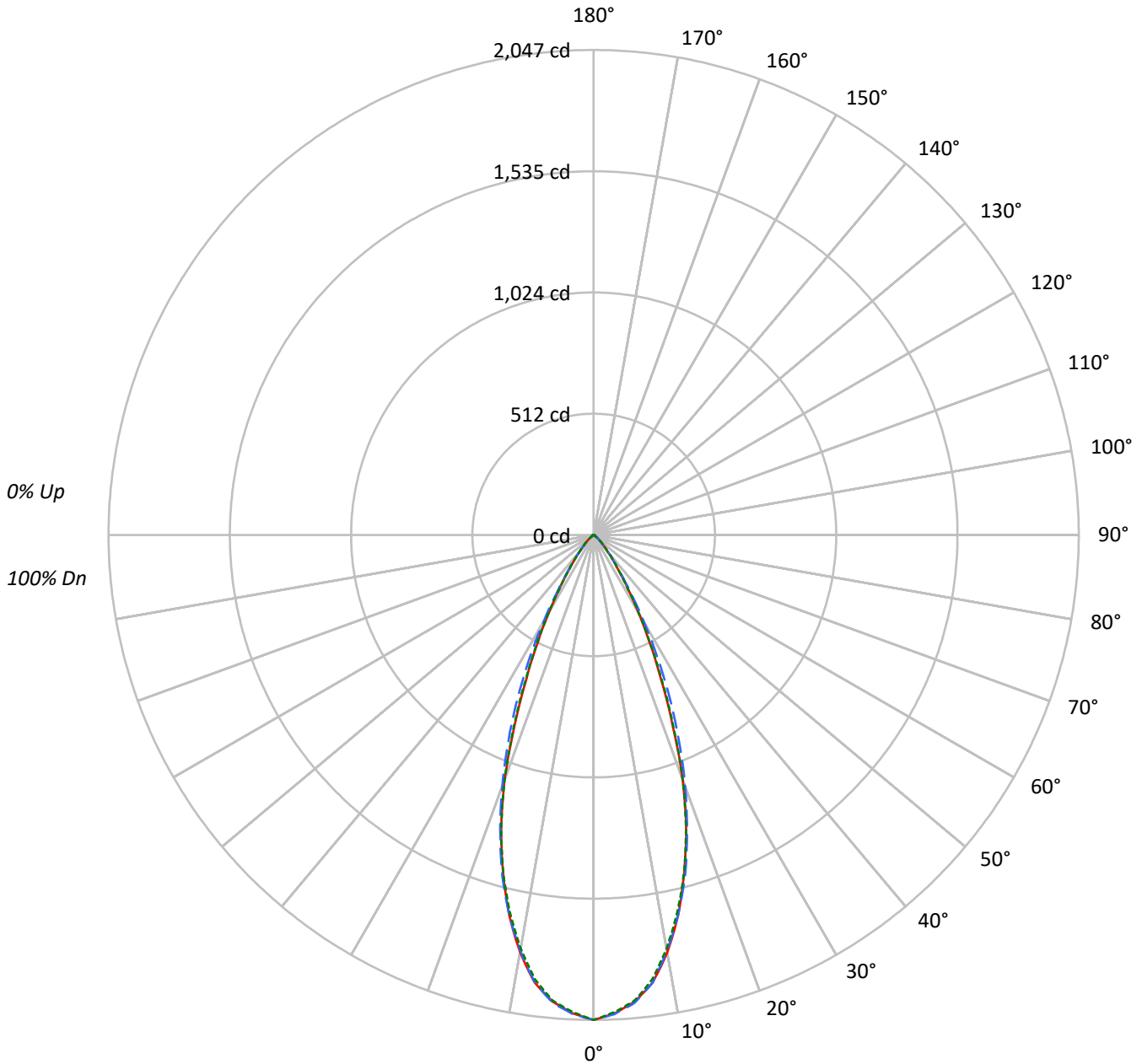
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1009912	1009912	1009912
5°	979548	981875	977468
10°	896591	893034	887674
15°	754197	761194	752971
20°	576740	592070	575795
25°	366248	412900	373380
30°	213005	240464	216765
35°	112627	119794	112928
40°	59445	62150	59445
45°	33211	34467	33630
50°	15504	19649	15504
55°	5591	10752	6107
60°	6414	6414	6414
65°	7004	7588	7004
70°	8655	7789	8655
75°	8006	8006	8006
80°	8523	6819	8523
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	16.5
10°-20°	406.8	36.6
20°-30°	328.6	29.6
30°-40°	129.9	11.7
40°-50°	39.9	3.6
50°-60°	10.3	0.9
60°-70°	6.2	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°	918.1	82.7
0°-40°	1048.0	94.4
0°-60°	1098.1	98.9
0°-90°	1110.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1110.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2047	2047	2047	2047	2047	
5°	1978	1982	1983	1978	1974	183
15°	1477	1481	1490	1484	1474	406
25°	673	705	758	718	686	313
35°	187	192	199	193	188	125
45°	48	48	49	49	48	39
55°	6	9	12	9	7	8
65°	6	6	6	6	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°	2047.0	2047.0	2047.0	2047.0	2047.0
2.5°	2021.3	2022.5	2024.3	2021.9	2016.0
5°	1977.9	1981.5	1982.6	1978.5	1973.7
7.5°	1906.4	1902.3	1905.8	1898.7	1892.7
10°	1789.7	1784.4	1782.6	1771.9	1771.9
12.5°	1645.7	1643.9	1645.1	1639.7	1631.4
15°	1476.6	1480.7	1490.3	1484.3	1474.2
17.5°	1297.4	1303.3	1311.6	1309.9	1296.2
20°	1098.5	1115.8	1127.7	1116.4	1096.7
22.5°	872.2	909.2	939.5	915.7	883.6
25°	672.8	704.9	758.5	718.0	685.9
27.5°	510.2	533.5	582.3	542.4	520.4
30°	373.9	388.2	422.1	395.9	380.5
32.5°	267.3	277.5	291.7	276.3	268.5
35°	187.0	192.3	198.9	192.9	187.5
37.5°	131.6	133.4	138.1	133.4	131.0
40°	92.3	92.9	96.5	93.5	92.3
42.5°	66.7	66.7	68.5	67.3	66.7
45°	47.6	48.2	49.4	48.8	48.2
47.5°	33.9	35.1	35.1	35.7	33.3
50°	20.2	25.0	25.6	25.0	20.2
52.5°	10.7	14.9	18.5	14.9	10.7
55°	6.5	8.9	12.5	8.9	7.1
57.5°	6.5	6.5	8.3	7.1	6.5
60°	6.5	6.5	6.5	6.5	6.5
62.5°	6.5	6.5	6.5	6.5	6.5
65°	6.0	6.5	6.5	6.5	6.0
67.5°	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	5.4	6.0	6.0
72.5°	5.4	5.4	4.8	5.4	5.4
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)