

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: P284031

Luminaire Tested: **LDA2B159727D010 EU2B15WFL559727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284031
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: LDA2B159727D010 EU2B15WFL559727 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: 896.1 lumens
Efficiency: N/A
Efficacy: 63.6 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

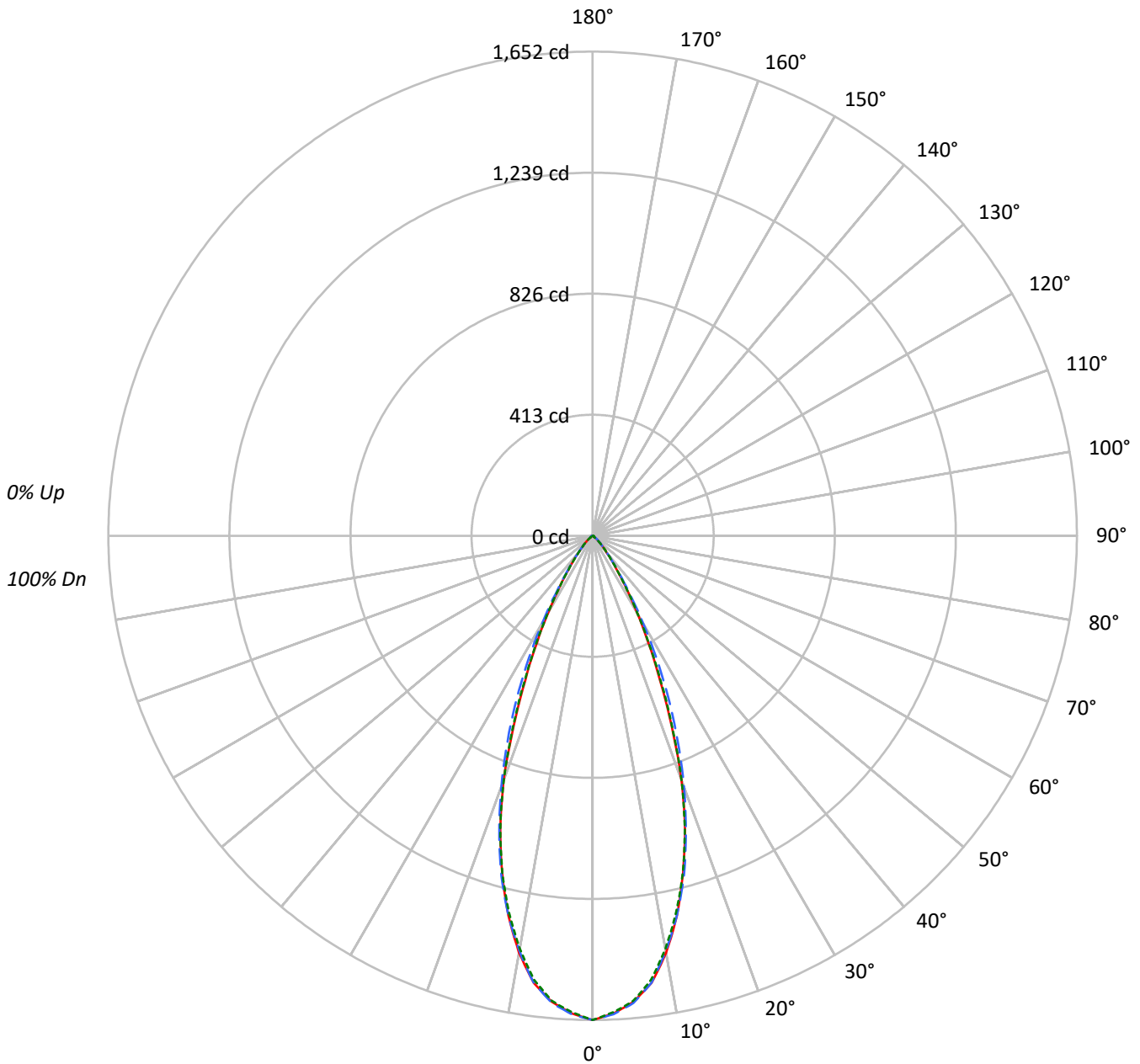
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	815083	815083	815083
5°	790611	792493	788927
10°	723655	720800	716441
15°	608731	614349	607760
20°	465487	477877	464752
25°	295590	333260	301360
30°	171931	194092	174950
35°	90885	96667	91186
40°	47981	50106	47981
45°	26792	27839	27141
50°	12511	15888	12511
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°	147.5	16.5
10°-20°	328.4	36.6
20°-30°	265.2	29.6
30°-40°	104.8	11.7
40°-50°	32.2	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°	741.0	82.7
0°-40°	845.8	94.4
0°-60°	886.3	98.9
0°-90°	896.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1596	1599	1600	1597	1593	148
15°	1192	1195	1203	1198	1190	327
25°	543	569	612	580	554	253
35°	151	155	160	156	151	101
45°	38	39	40	39	39	31
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°	1652.1	1652.1	1652.1	1652.1	1652.1
2.5°	1631.5	1632.4	1633.9	1632.0	1627.2
5°	1596.4	1599.3	1600.2	1596.9	1593.0
7.5°	1538.7	1535.4	1538.3	1532.5	1527.7
10°	1444.5	1440.2	1438.8	1430.1	1430.1
12.5°	1328.2	1326.8	1327.8	1323.4	1316.7
15°	1191.8	1195.1	1202.8	1198.0	1189.9
17.5°	1047.1	1051.9	1058.7	1057.2	1046.2
20°	886.6	900.6	910.2	901.0	885.2
22.5°	704.0	733.8	758.3	739.1	713.1
25°	543.0	569.0	612.2	579.5	553.6
27.5°	411.8	430.6	470.0	437.8	420.0
30°	301.8	313.3	340.7	319.6	307.1
32.5°	215.8	223.9	235.5	223.0	216.7
35°	150.9	155.2	160.5	155.7	151.4
37.5°	106.2	107.6	111.5	107.6	105.7
40°	74.5	75.0	77.8	75.4	74.5
42.5°	53.8	53.8	55.3	54.3	53.8
45°	38.4	38.9	39.9	39.4	38.9
47.5°	27.4	28.4	28.4	28.8	26.9
50°	16.3	20.2	20.7	20.2	16.3
52.5°	8.6	12.0	14.9	12.0	8.6
55°	5.3	7.2	10.1	7.2	5.8
57.5°	5.3	5.3	6.7	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	3.8	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)