

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: P283862

Luminaire Tested: **LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283862
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: LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 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: 510.2 lumens
Efficiency: N/A
Efficacy: 72.9 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

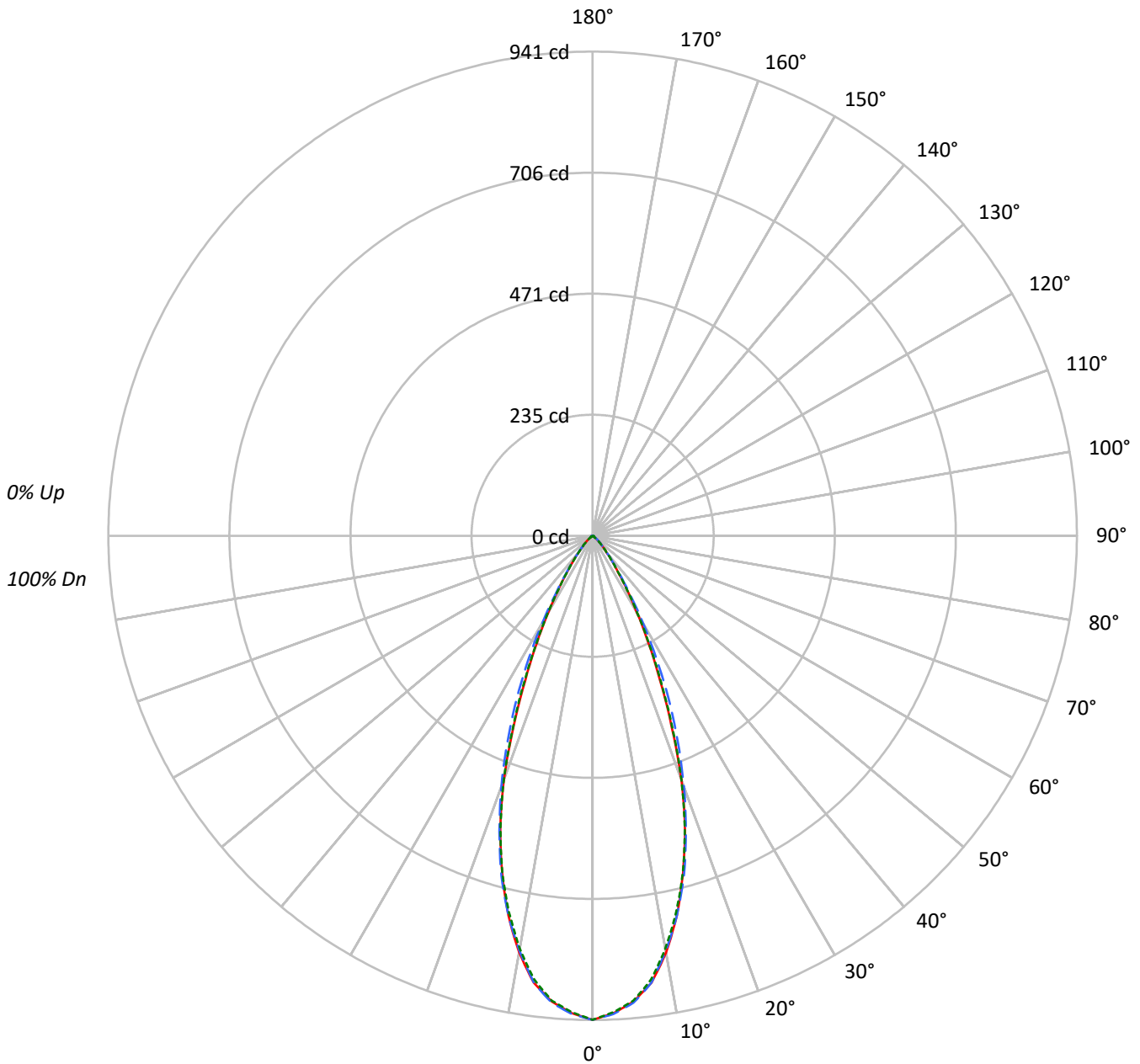
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	464105	464105	464105
5°	450129	451219	449188
10°	412050	410397	407942
15°	346606	349823	346044
20°	265032	272068	264612
25°	168318	189765	171584
30°	97872	110519	99581
35°	51736	55049	51917
40°	27307	28531	27307
45°	15280	15838	15489
50°	7138	9057	7138
55°	2580	4903	2838
60°	2960	2960	2960
65°	3152	3502	3152
70°	3895	3606	3895
75°	3622	3622	3622
80°	3978	3125	3978
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	16.5
10°-20°	187.0	36.6
20°-30°	151.0	29.6
30°-40°	59.7	11.7
40°-50°	18.3	3.6
50°-60°	4.7	0.9
60°-70°	2.8	0.6
70°-80°	2.1	0.4
80°-90°	0.6	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°	421.9	82.7
0°-40°	481.6	94.4
0°-60°	504.6	98.9
0°-90°	510.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	909	911	911	909	907	84
15°	679	680	685	682	678	186
25°	309	324	349	330	315	144
35°	86	88	91	89	86	58
45°	22	22	23	22	22	18
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.7	940.7	940.7	940.7	940.7
2.5°	928.9	929.5	930.3	929.2	926.5
5°	908.9	910.6	911.1	909.2	907.0
7.5°	876.1	874.2	875.8	872.6	869.8
10°	822.5	820.0	819.2	814.3	814.3
12.5°	756.3	755.4	756.0	753.5	749.7
15°	678.6	680.5	684.9	682.1	677.5
17.5°	596.2	598.9	602.8	602.0	595.7
20°	504.8	512.8	518.2	513.0	504.0
22.5°	400.8	417.8	431.8	420.8	406.0
25°	309.2	324.0	348.6	330.0	315.2
27.5°	234.5	245.2	267.6	249.3	239.1
30°	171.8	178.4	194.0	182.0	174.8
32.5°	122.9	127.5	134.1	127.0	123.4
35°	85.9	88.4	91.4	88.7	86.2
37.5°	60.5	61.3	63.5	61.3	60.2
40°	42.4	42.7	44.3	43.0	42.4
42.5°	30.6	30.6	31.5	30.9	30.6
45°	21.9	22.2	22.7	22.4	22.2
47.5°	15.6	16.1	16.1	16.4	15.3
50°	9.3	11.5	11.8	11.5	9.3
52.5°	4.9	6.8	8.5	6.8	4.9
55°	3.0	4.1	5.7	4.1	3.3
57.5°	3.0	3.0	3.8	3.3	3.0
60°	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.7	3.0	3.0	3.0	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.5	2.7	2.7
72.5°	2.5	2.5	2.2	2.5	2.5
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.4	1.4	1.1	1.4	1.4
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)