

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: P283864

Luminaire Tested: **LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283864  
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 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 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: 505.3 lumens  
Efficiency: N/A  
Efficacy: 72.2 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

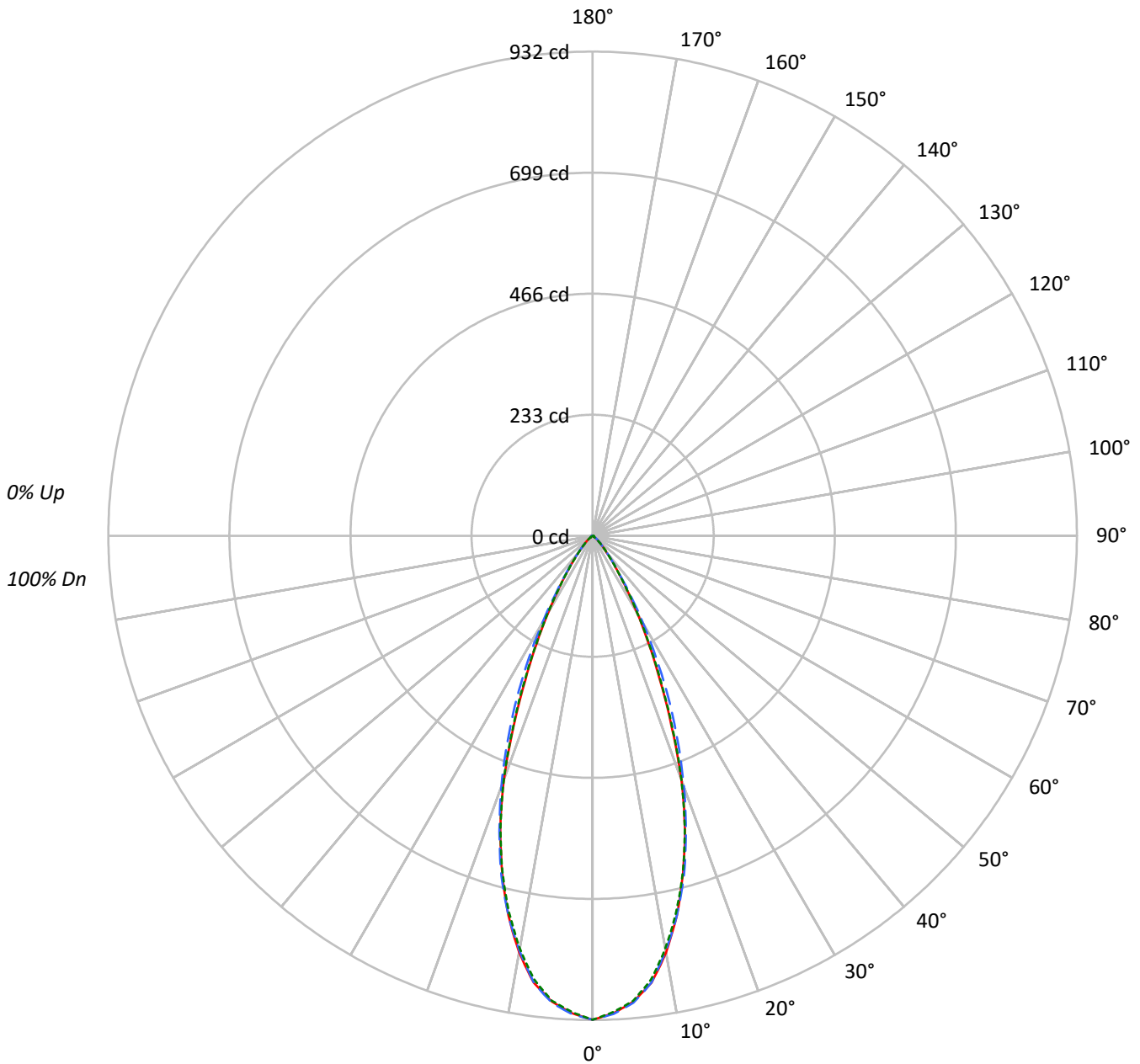
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P283864

CATALOG NUMBER: LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P283864

CATALOG NUMBER: LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MMS

**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°	459616	459616	459616
5°	445821	446861	444880
10°	408042	406439	403984
15°	343235	346401	342673
20°	262460	269443	262040
25°	166684	187915	169951
30°	96960	109437	98669
35°	51254	54507	51435
40°	27050	28273	27050
45°	15141	15699	15280
50°	7061	8980	7061
55°	2580	4903	2838
60°	2960	2960	2960
65°	3152	3502	3152
70°	3895	3462	3895
75°	3622	3622	3622
80°	3978	3125	3978
85°	2830	2830	2830



TEST NUMBER: P283864

CATALOG NUMBER: LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	16.5
10°-20°	185.2	36.6
20°-30°	149.5	29.6
30°-40°	59.1	11.7
40°-50°	18.1	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°	417.9	82.7
0°-40°	477.0	94.4
0°-60°	499.8	98.9
0°-90°	505.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	900	902	902	900	898	83
15°	672	674	678	676	671	185
25°	306	321	345	327	312	143
35°	85	88	90	88	85	57
45°	22	22	22	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	



TEST NUMBER: P283864

CATALOG NUMBER: LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	931.6	931.6	931.6	931.6	931.6
2.5°	920.0	920.5	921.3	920.2	917.5
5°	900.2	901.8	902.3	900.4	898.3
7.5°	867.7	865.8	867.4	864.1	861.4
10°	814.5	812.1	811.3	806.4	806.4
12.5°	749.0	748.2	748.7	746.3	742.5
15°	672.0	673.9	678.2	675.5	670.9
17.5°	590.5	593.2	597.0	596.1	589.9
20°	499.9	507.8	513.2	508.1	499.1
22.5°	397.0	413.8	427.6	416.8	402.1
25°	306.2	320.8	345.2	326.8	312.2
27.5°	232.2	242.8	265.0	246.9	236.8
30°	170.2	176.7	192.1	180.2	173.2
32.5°	121.7	126.3	132.8	125.7	122.2
35°	85.1	87.5	90.5	87.8	85.4
37.5°	59.9	60.7	62.9	60.7	59.6
40°	42.0	42.3	43.9	42.5	42.0
42.5°	30.3	30.3	31.2	30.6	30.3
45°	21.7	21.9	22.5	22.2	21.9
47.5°	15.4	16.0	16.0	16.3	15.2
50°	9.2	11.4	11.7	11.4	9.2
52.5°	4.9	6.8	8.4	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	2.4	2.7	2.7
72.5°	2.4	2.4	2.2	2.4	2.4
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



Report Generated By E9808895 / USPTCWHP6082093







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







(END OF REPORT)