

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: P282624

Luminaire Tested: **LDA2B058030D010 EU2B05NFL258030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058030D010 EU2B05NFL258030 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 664.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

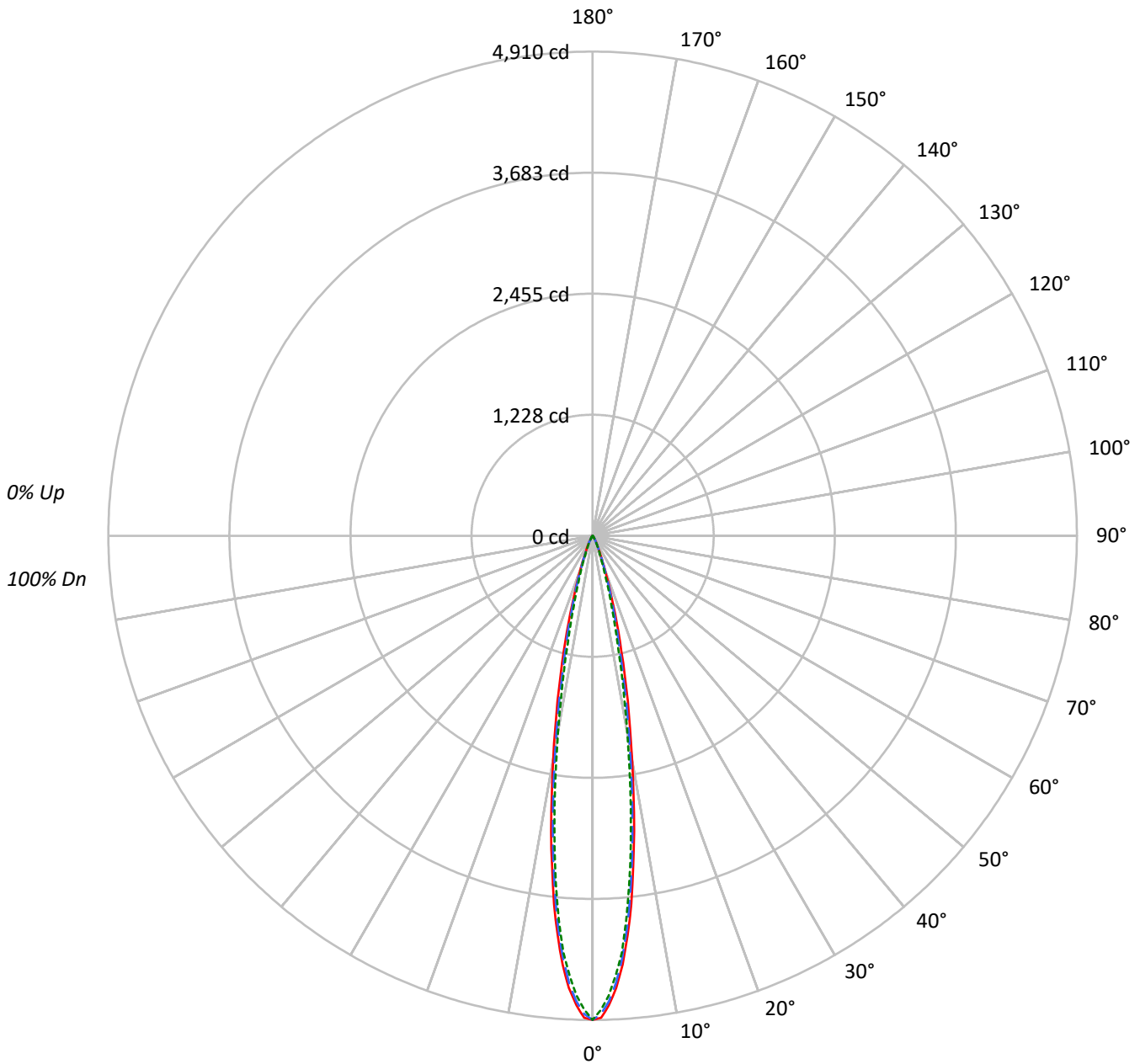
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2422308	2422308	2422308
5°	2015603	1978658	1938691
10°	1154542	1083404	1011113
15°	513524	456063	382155
20°	186279	175148	138764
25°	71529	66794	57485
30°	30820	28712	25465
35°	14575	14575	12106
40°	7342	7535	6118
45°	4256	3977	3698
50°	2917	2610	2610
55°	2322	1634	1978
60°	1875	1085	1480
65°	1284	934	1284
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.3	48.1
10°-20°	258.4	38.9
20°-30°	62.3	9.4
30°-40°	15.9	2.4
40°-50°	4.7	0.7
50°-60°	2.0	0.3
60°-70°	1.0	0.1
70°-80°	0.3	0.1
80°-90°	0.0	0.0
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°	640.1	96.4
0°-40°	655.9	98.8
0°-60°	662.7	99.8
0°-90°	664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4910	4910	4910	4910	4910	
5°	4070	4032	3995	3960	3915	329
15°	1005	982	893	804	748	287
25°	131	132	123	111	106	68
35°	24	25	24	22	20	17
45°	6	6	6	5	5	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4909.8	4909.8	4909.8	4909.8	4909.8
1°	4887.8	4853.7	4849.6	4870.8	4808.3
2°	4762.8	4738.6	4724.6	4737.1	4666.3
3°	4591.3	4567.8	4542.5	4542.8	4463.7
4°	4357.7	4339.1	4296.3	4283.5	4237.6
5°	4069.9	4032.4	3995.3	3960.5	3914.6
6°	3751.8	3703.3	3650.3	3598.4	3551.5
7°	3377.7	3345.5	3275.4	3204.6	3164.9
8°	3025.9	2974.0	2892.2	2803.6	2769.9
9°	2647.6	2610.5	2516.6	2413.6	2379.9
10°	2304.6	2265.9	2162.6	2047.8	2018.3
11°	1982.7	1946.3	1838.8	1718.4	1687.0
12°	1710.4	1658.9	1535.5	1431.0	1400.3
13°	1439.3	1404.1	1287.1	1183.7	1124.3
14°	1208.7	1179.5	1073.5	982.6	919.8
15°	1005.4	981.5	892.9	804.3	748.2
16°	824.7	810.0	739.9	654.3	608.5
17°	669.1	655.5	610.8	532.0	493.4
18°	540.4	538.5	501.4	433.2	398.7
19°	444.6	443.8	409.7	352.5	324.1
20°	354.8	359.7	333.6	283.6	264.3
21°	289.3	292.0	271.1	233.3	215.8
22°	235.5	237.4	223.8	192.7	183.3
23°	193.1	194.3	182.9	159.8	151.5
24°	159.0	159.8	149.6	133.3	126.1
25°	131.4	132.2	122.7	111.3	105.6
26°	109.1	109.8	101.5	93.5	87.9
27°	90.5	92.0	83.7	78.8	72.7
28°	77.2	77.6	70.1	67.0	61.3
29°	63.2	65.5	59.1	56.4	52.3
30°	54.1	55.3	50.4	48.5	44.7
32.5°	36.0	36.7	34.5	32.9	29.9
35°	24.2	24.6	24.2	22.0	20.1
37.5°	16.7	16.7	17.0	14.4	13.6
40°	11.4	11.4	11.7	9.8	9.5
42.5°	8.3	8.3	8.0	6.8	6.8
45°	6.1	6.1	5.7	5.3	5.3
47.5°	4.9	4.5	4.2	4.2	4.2
50°	3.8	3.8	3.4	3.0	3.4
52.5°	3.0	3.0	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.1	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.8	0.8	1.1



(END OF REPORT)