

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: P283904

Luminaire Tested: **LDA2B108050D010 EU2B10WFL558050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283904  
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: LDA2B108050D010 EU2B10WFL558050 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 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: 1041.9 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

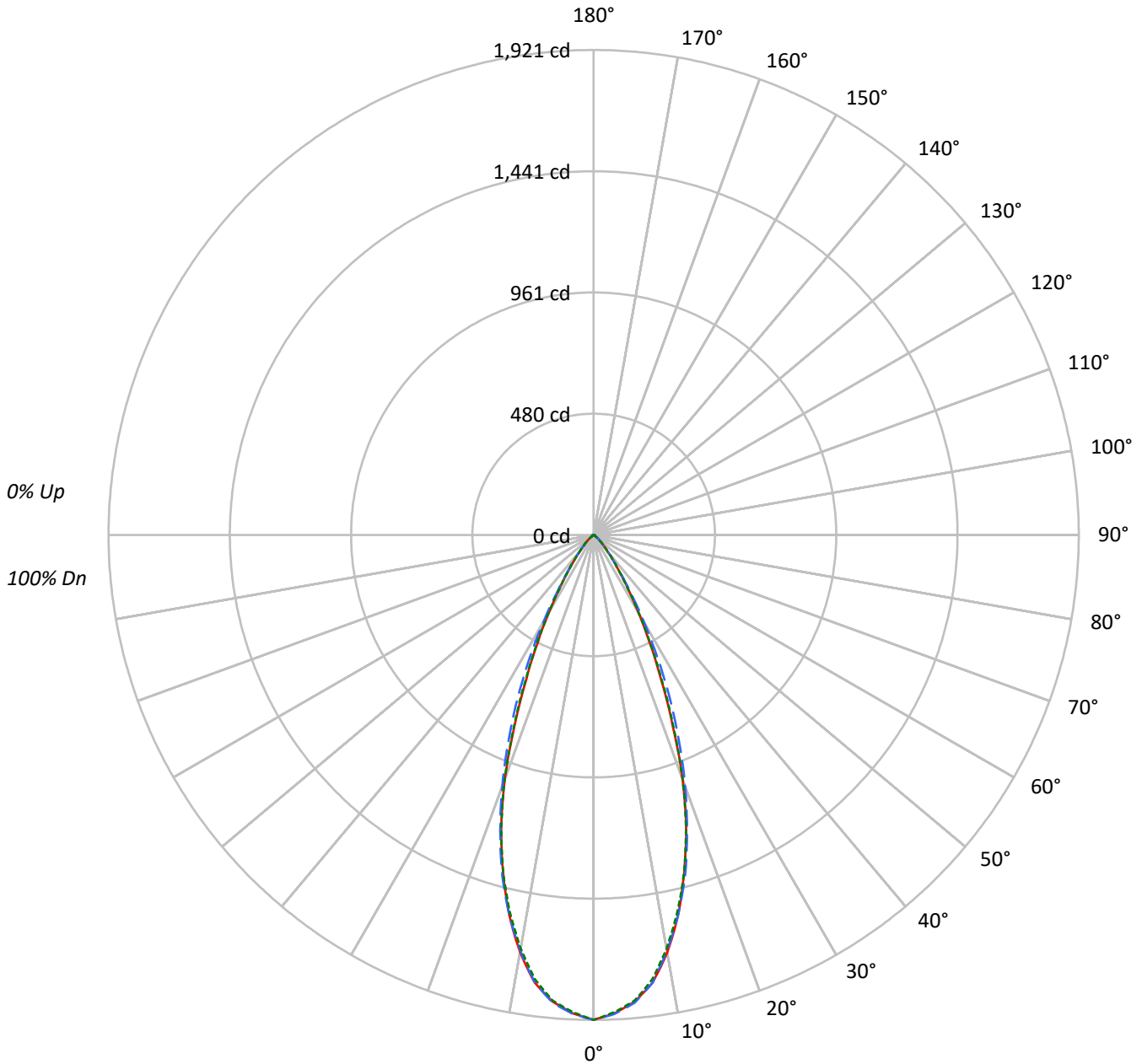
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

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

	0°	45°	90°
0°	947699	947699	947699
5°	919177	921406	917246
10°	841384	838027	832967
15°	707717	714306	706593
20°	541195	555581	540303
25°	343657	387479	350353
30°	199903	225652	203378
35°	105641	112386	106002
40°	55774	58285	55774
45°	31188	32374	31607
50°	14583	18421	14583
55°	5247	10064	5763
60°	6019	6019	6019
65°	6537	7121	6537
70°	8078	7212	8078
75°	7434	7434	7434
80°	7955	6251	7955
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.5	16.5
10°-20°	381.8	36.6
20°-30°	308.3	29.6
30°-40°	121.9	11.7
40°-50°	37.4	3.6
50°-60°	9.6	0.9
60°-70°	5.8	0.6
70°-80°	4.3	0.4
80°-90°	1.3	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°	861.6	82.7
0°-40°	983.4	94.4
0°-60°	1030.5	98.9
0°-90°	1041.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1921	1921	1921	1921	1921	
5°	1856	1859	1860	1857	1852	172
15°	1386	1390	1398	1393	1383	381
25°	631	662	712	674	644	294
35°	175	180	187	181	176	118
45°	45	45	46	46	45	36
55°	6	8	12	8	7	8
65°	6	6	6	6	6	6
75°	4	4	4	4	4	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°	1920.9	1920.9	1920.9	1920.9	1920.9
2.5°	1896.8	1897.9	1899.6	1897.4	1891.8
5°	1856.0	1859.4	1860.5	1856.6	1852.1
7.5°	1789.0	1785.1	1788.4	1781.7	1776.1
10°	1679.5	1674.5	1672.8	1662.7	1662.7
12.5°	1544.3	1542.6	1543.7	1538.7	1530.9
15°	1385.6	1389.5	1398.5	1392.9	1383.4
17.5°	1217.4	1223.0	1230.8	1229.2	1216.3
20°	1030.8	1047.0	1058.2	1047.6	1029.1
22.5°	818.5	853.2	881.6	859.3	829.1
25°	631.3	661.5	711.8	673.8	643.6
27.5°	478.8	500.6	546.4	509.0	488.3
30°	350.9	364.3	396.1	371.5	357.0
32.5°	250.9	260.4	273.8	259.2	252.0
35°	175.4	180.5	186.6	181.0	176.0
37.5°	123.5	125.2	129.6	125.2	122.9
40°	86.6	87.2	90.5	87.7	86.6
42.5°	62.6	62.6	64.3	63.1	62.6
45°	44.7	45.3	46.4	45.8	45.3
47.5°	31.8	33.0	33.0	33.5	31.3
50°	19.0	23.5	24.0	23.5	19.0
52.5°	10.1	14.0	17.3	14.0	10.1
55°	6.1	8.4	11.7	8.4	6.7
57.5°	6.1	6.1	7.8	6.7	6.1
60°	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.6	6.1	6.1	6.1	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.0	5.6	5.6
72.5°	5.0	5.0	4.5	5.0	5.0
75°	3.9	3.9	3.9	3.9	3.9
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.8	2.8	2.2	2.8	2.8
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.1	1.1	1.1	1.1	1.1
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)