

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: P283928

Luminaire Tested: **LDA2B109035D010 EU2B10WFL559035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283928  
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: LDA2B109035D010 EU2B10WFL559035 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: 834.4 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

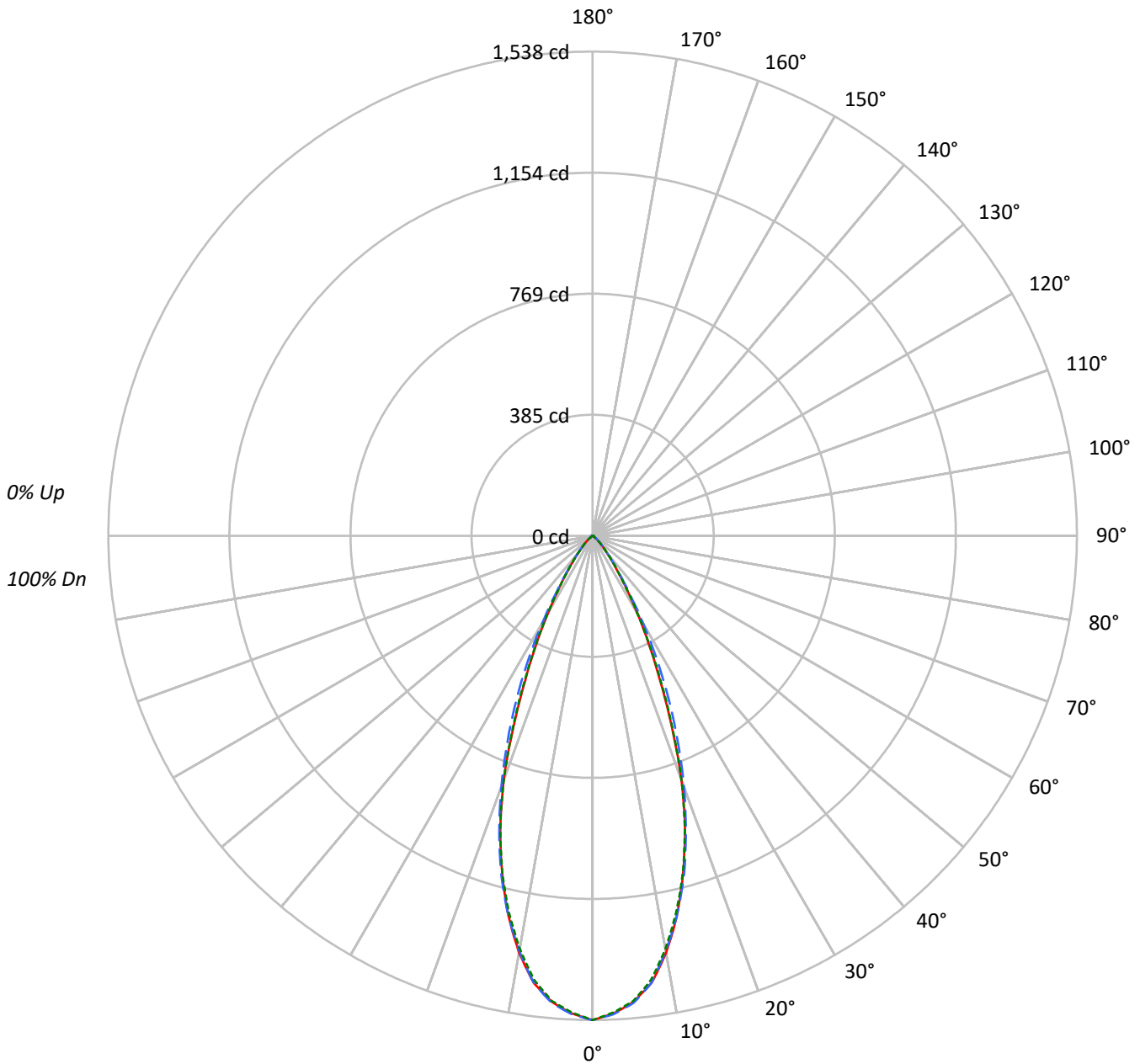
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	758988	758988	758988
5°	736184	737917	734599
10°	673858	671153	667095
15°	566797	572058	565877
20°	433460	444958	432725
25°	275231	310342	280620
30°	160082	180761	162873
35°	84621	90041	84922
40°	44696	46693	44696
45°	24978	25885	25257
50°	11667	14737	11667
55°	4215	8085	4645
60°	4835	4835	4835
65°	5253	5720	5253
70°	6491	5770	6491
75°	5909	5909	5909
80°	6251	5114	6251
85°	5095	5095	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.3	16.5
10°-20°	305.8	36.6
20°-30°	246.9	29.6
30°-40°	97.6	11.7
40°-50°	30.0	3.6
50°-60°	7.7	0.9
60°-70°	4.7	0.6
70°-80°	3.4	0.4
80°-90°	1.0	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°	690.0	82.7
0°-40°	787.6	94.4
0°-60°	825.3	98.9
0°-90°	834.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1486	1489	1490	1487	1483	138
15°	1110	1113	1120	1116	1108	305
25°	506	530	570	540	516	235
35°	140	144	150	145	141	94
45°	36	36	37	37	36	29
55°	5	7	9	7	5	6
65°	4	5	5	5	4	5
75°	3	3	3	3	3	3
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°	1538.4	1538.4	1538.4	1538.4	1538.4
2.5°	1519.1	1520.0	1521.4	1519.6	1515.1
5°	1486.5	1489.2	1490.0	1486.9	1483.3
7.5°	1432.8	1429.6	1432.3	1427.0	1422.5
10°	1345.1	1341.0	1339.7	1331.6	1331.6
12.5°	1236.8	1235.4	1236.3	1232.3	1226.0
15°	1109.7	1112.8	1120.0	1115.5	1107.9
17.5°	975.0	979.5	985.8	984.4	974.1
20°	825.6	838.5	847.5	839.0	824.2
22.5°	655.5	683.3	706.1	688.2	664.0
25°	505.6	529.8	570.1	539.6	515.5
27.5°	383.5	400.9	437.6	407.6	391.1
30°	281.0	291.7	317.3	297.6	285.9
32.5°	200.9	208.5	219.3	207.6	201.8
35°	140.5	144.5	149.5	145.0	141.0
37.5°	98.9	100.2	103.8	100.2	98.4
40°	69.4	69.8	72.5	70.3	69.4
42.5°	50.1	50.1	51.5	50.6	50.1
45°	35.8	36.2	37.1	36.7	36.2
47.5°	25.5	26.4	26.4	26.8	25.1
50°	15.2	18.8	19.2	18.8	15.2
52.5°	8.1	11.2	13.9	11.2	8.1
55°	4.9	6.7	9.4	6.7	5.4
57.5°	4.9	4.9	6.3	5.4	4.9
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.5	4.9	4.9	4.9	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.0	4.5	4.5
72.5°	4.0	4.0	3.6	4.0	4.0
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.2	2.2	1.8	2.2	2.2
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)