

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: P283943

Luminaire Tested: **LDA2B109050D010 EU2B10WFL559050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283943  
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: LDA2B109050D010 EU2B10WFL559050 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 820.5 lumens  
Efficiency: N/A  
Efficacy: 82.1 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

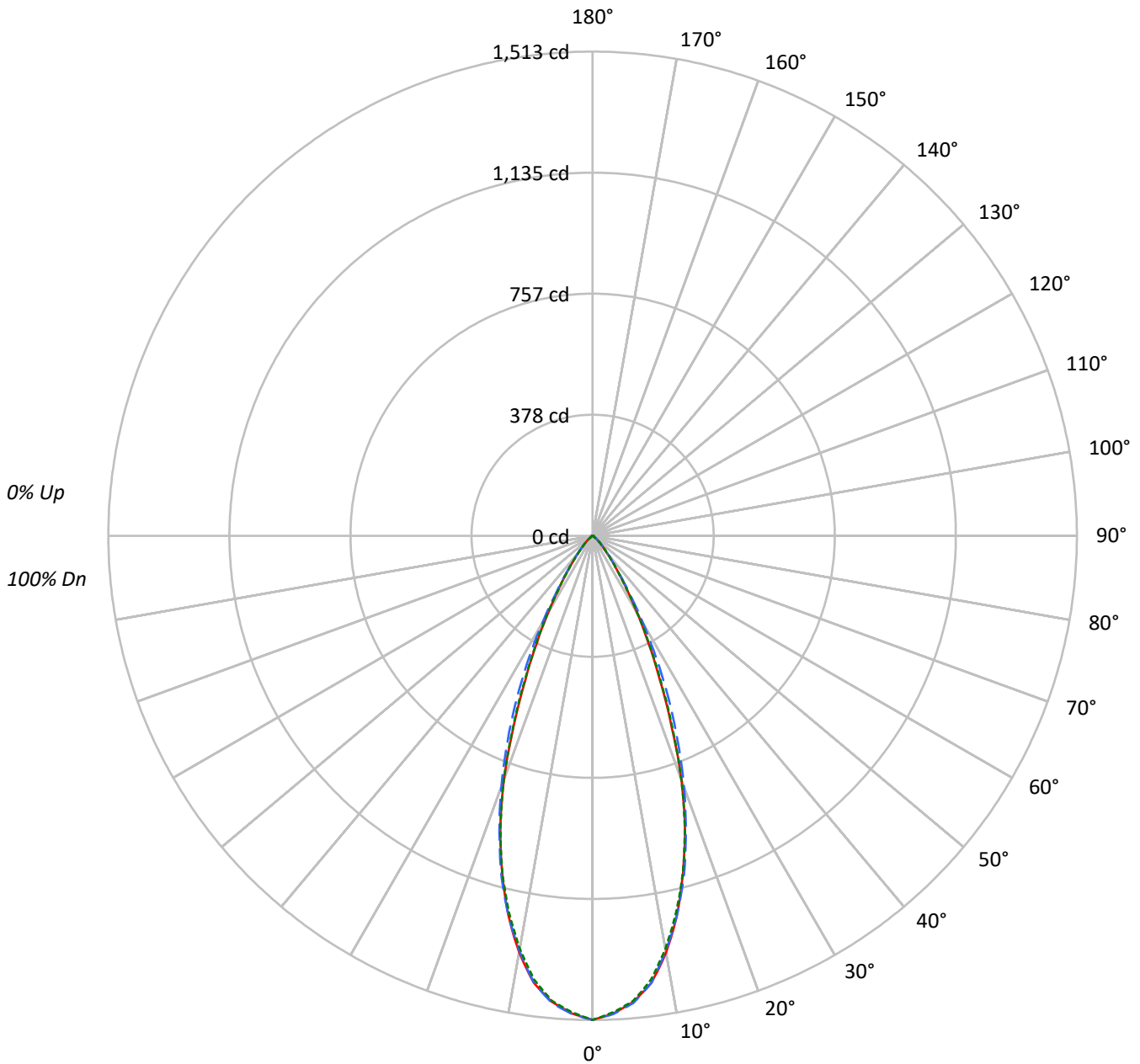
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	746358	746358	746358
5°	723951	725684	722416
10°	662637	659981	656024
15°	557399	562557	556479
20°	426215	437556	425532
25°	270658	305171	275938
30°	157404	177742	160195
35°	83236	88536	83476
40°	43923	45920	43923
45°	24560	25467	24839
50°	11513	14506	11513
55°	4129	7913	4559
60°	4736	4736	4736
65°	5137	5603	5137
70°	6347	5770	6347
75°	5909	5909	5909
80°	6251	5114	6251
85°	5095	5095	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.0	16.5
10°-20°	300.7	36.6
20°-30°	242.8	29.6
30°-40°	96.0	11.7
40°-50°	29.5	3.6
50°-60°	7.6	0.9
60°-70°	4.6	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°	678.5	82.7
0°-40°	774.5	94.4
0°-60°	811.6	98.9
0°-90°	820.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1462	1464	1465	1462	1459	135
15°	1091	1094	1101	1097	1090	300
25°	497	521	561	531	507	231
35°	138	142	147	143	139	93
45°	35	36	36	36	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°	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1493.9	1494.8	1496.1	1494.3	1489.9
5°	1461.8	1464.4	1465.3	1462.2	1458.7
7.5°	1409.0	1405.9	1408.5	1403.2	1398.8
10°	1322.7	1318.8	1317.4	1309.5	1309.5
12.5°	1216.2	1214.9	1215.8	1211.8	1205.7
15°	1091.3	1094.3	1101.4	1097.0	1089.5
17.5°	958.8	963.2	969.4	968.1	957.9
20°	811.8	824.6	833.4	825.0	810.5
22.5°	644.6	671.9	694.4	676.8	653.0
25°	497.2	521.0	560.6	530.7	506.9
27.5°	377.1	394.3	430.3	400.9	384.6
30°	276.3	286.9	312.0	292.6	281.2
32.5°	197.6	205.1	215.6	204.2	198.5
35°	138.2	142.1	147.0	142.6	138.6
37.5°	97.2	98.6	102.1	98.6	96.8
40°	68.2	68.6	71.3	69.1	68.2
42.5°	49.3	49.3	50.6	49.7	49.3
45°	35.2	35.6	36.5	36.1	35.6
47.5°	25.1	26.0	26.0	26.4	24.6
50°	15.0	18.5	18.9	18.5	15.0
52.5°	7.9	11.0	13.6	11.0	7.9
55°	4.8	6.6	9.2	6.6	5.3
57.5°	4.8	4.8	6.2	5.3	4.8
60°	4.8	4.8	4.8	4.8	4.8
62.5°	4.8	4.8	4.8	4.8	4.8
65°	4.4	4.8	4.8	4.8	4.4
67.5°	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.0	4.4	4.4
72.5°	4.0	4.0	3.5	4.0	4.0
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.6	2.6	2.6	2.6	2.6
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)