

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: P283949

Luminaire Tested: **LDA2B109727D010 EU2B10WFL559727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283949  
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: LDA2B109727D010 EU2B10WFL559727 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: 649.6 lumens  
Efficiency: N/A  
Efficacy: 65.0 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

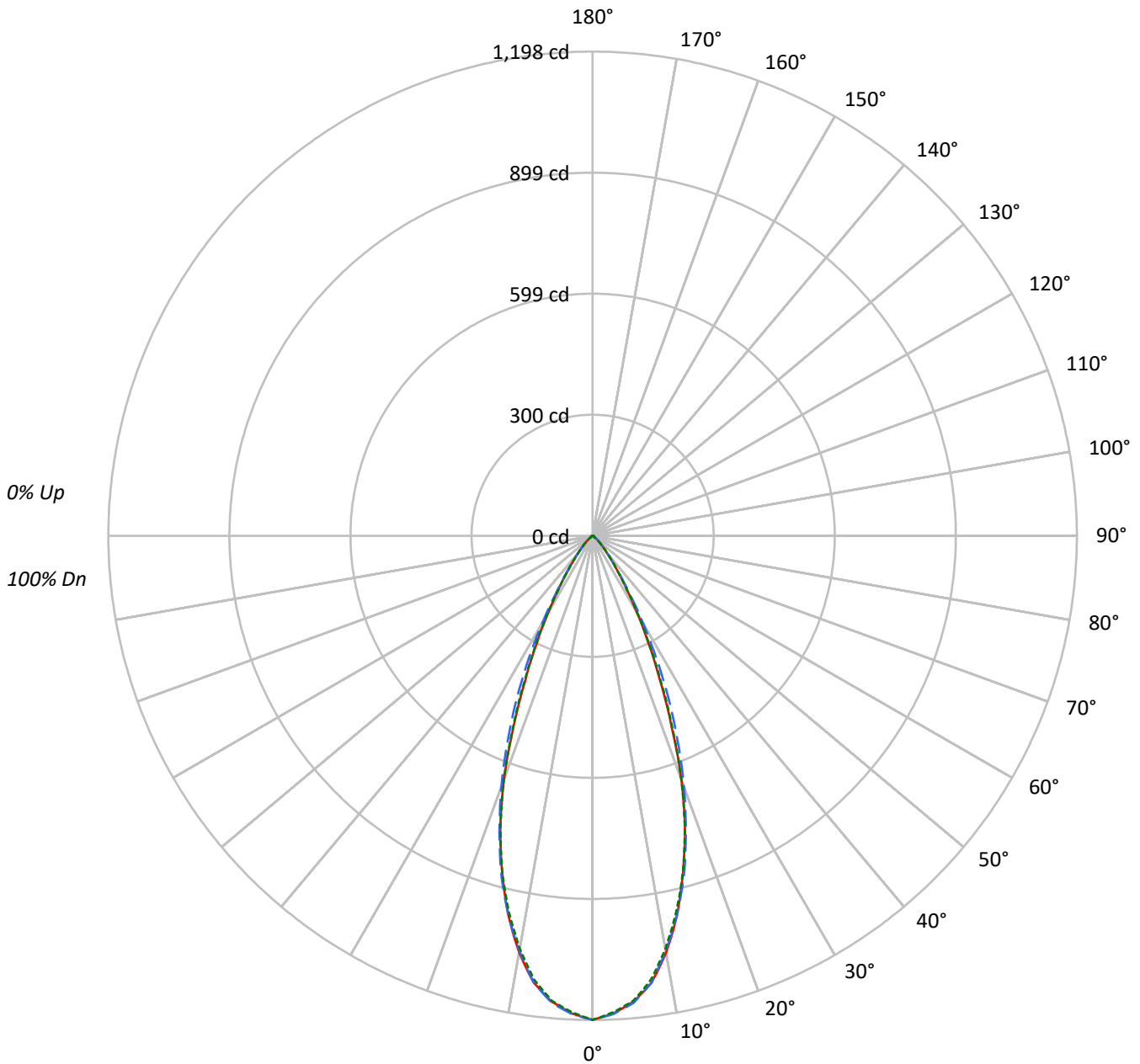
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	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°	590949	590949	590949
5°	573198	574585	571960
10°	524669	522565	519408
15°	441302	445388	440586
20°	337486	346464	336961
25°	214316	241643	218508
30°	124647	140712	126812
35°	65890	70106	66071
40°	34778	36324	34778
45°	19466	20164	19676
50°	9057	11513	9057
55°	3269	6279	3613
60°	3750	3750	3750
65°	4086	4436	4086
70°	5049	4472	5049
75°	4575	4575	4575
80°	4830	3978	4830
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	16.5
10°-20°	238.1	36.6
20°-30°	192.3	29.6
30°-40°	76.0	11.7
40°-50°	23.3	3.6
50°-60°	6.0	0.9
60°-70°	3.6	0.6
70°-80°	2.6	0.4
80°-90°	0.8	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°	537.3	82.7
0°-40°	613.2	94.4
0°-60°	642.6	98.9
0°-90°	649.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1157	1160	1160	1158	1155	107
15°	864	866	872	869	863	237
25°	394	412	444	420	401	183
35°	109	112	116	113	110	73
45°	28	28	29	29	28	23
55°	4	5	7	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1182.8	1183.5	1184.6	1183.2	1179.7
5°	1157.4	1159.5	1160.2	1157.7	1154.9
7.5°	1115.6	1113.1	1115.2	1111.1	1107.6
10°	1047.3	1044.2	1043.1	1036.8	1036.8
12.5°	963.0	961.9	962.6	959.5	954.6
15°	864.0	866.5	872.0	868.6	862.6
17.5°	759.2	762.7	767.5	766.5	758.5
20°	642.8	652.9	659.9	653.3	641.8
22.5°	510.4	532.0	549.8	535.8	517.0
25°	393.7	412.5	443.9	420.2	401.4
27.5°	298.6	312.2	340.7	317.4	304.5
30°	218.8	227.2	247.0	231.7	222.6
32.5°	156.4	162.4	170.7	161.7	157.1
35°	109.4	112.5	116.4	112.9	109.7
37.5°	77.0	78.0	80.8	78.0	76.6
40°	54.0	54.4	56.4	54.7	54.0
42.5°	39.0	39.0	40.1	39.4	39.0
45°	27.9	28.2	28.9	28.6	28.2
47.5°	19.9	20.6	20.6	20.9	19.5
50°	11.8	14.6	15.0	14.6	11.8
52.5°	6.3	8.7	10.8	8.7	6.3
55°	3.8	5.2	7.3	5.2	4.2
57.5°	3.8	3.8	4.9	4.2	3.8
60°	3.8	3.8	3.8	3.8	3.8
62.5°	3.8	3.8	3.8	3.8	3.8
65°	3.5	3.8	3.8	3.8	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.1	3.5	3.5
72.5°	3.1	3.1	2.8	3.1	3.1
75°	2.4	2.4	2.4	2.4	2.4
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.7	1.7	1.4	1.7	1.7
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)