

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: P283908

Luminaire Tested: **LDA2B108050D010 EU2B10WFL558050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283908  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 939.5 lumens  
Efficiency: N/A  
Efficacy: 94.0 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

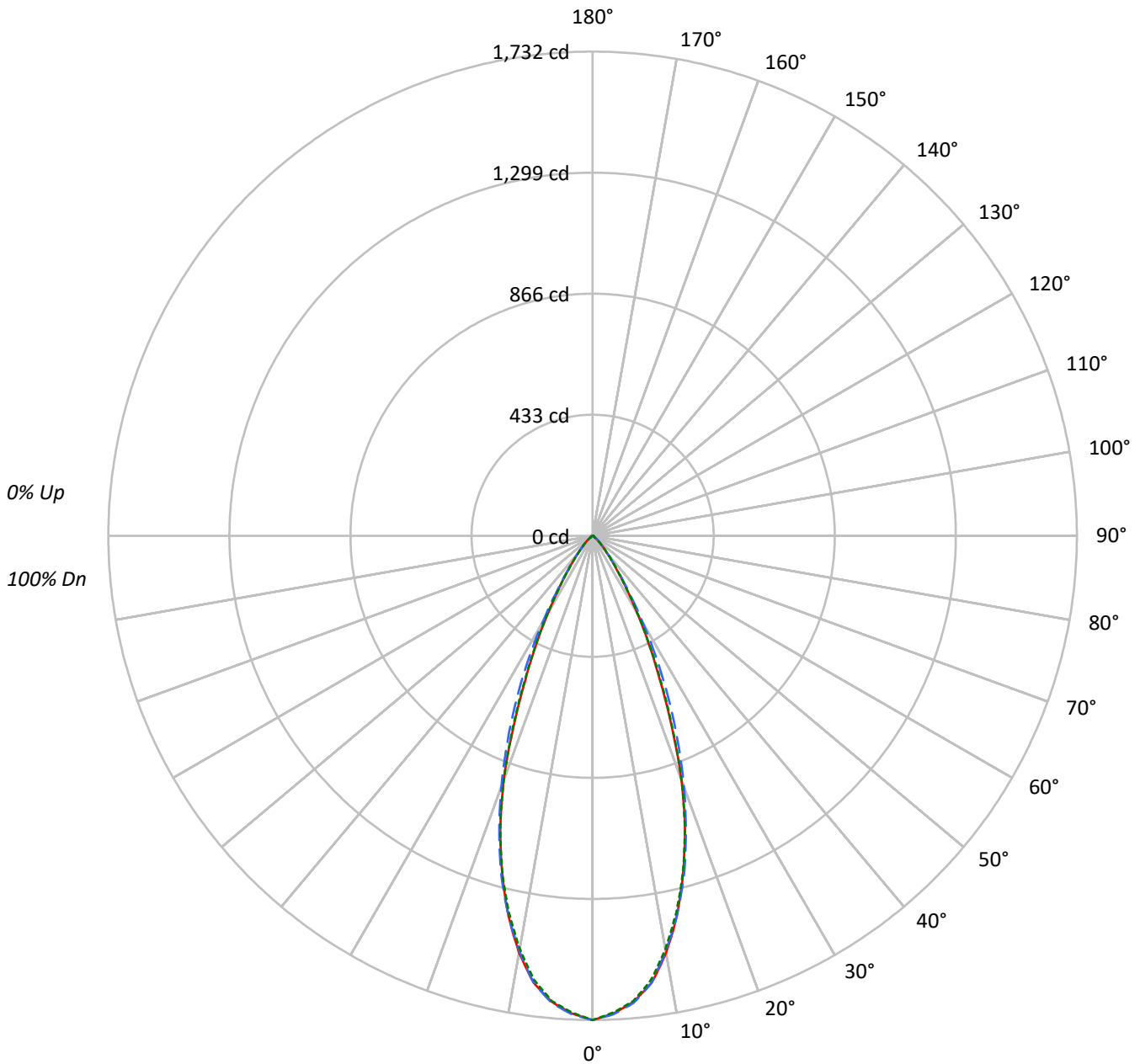
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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°	854700	854700	854700
5°	828993	831023	827260
10°	758823	755767	751259
15°	638253	644178	637231
20°	488115	501084	487328
25°	309961	349482	316004
30°	180248	203548	183439
35°	95281	101364	95582
40°	50299	52554	50299
45°	28118	29165	28467
50°	13125	16656	13125
55°	4731	9118	5161
60°	5427	5427	5427
65°	5837	6421	5837
70°	7212	6491	7212
75°	6672	6672	6672
80°	7103	5682	7103
85°	5661	5661	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	16.5
10°-20°	344.3	36.6
20°-30°	278.1	29.6
30°-40°	109.9	11.7
40°-50°	33.7	3.6
50°-60°	8.7	0.9
60°-70°	5.2	0.6
70°-80°	3.8	0.4
80°-90°	1.1	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°	777.0	82.7
0°-40°	886.9	94.4
0°-60°	929.3	98.9
0°-90°	939.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1674	1677	1678	1674	1670	155
15°	1250	1253	1261	1256	1248	343
25°	569	597	642	608	580	265
35°	158	163	168	163	159	106
45°	40	41	42	41	41	33
55°	6	8	11	8	6	7
65°	5	6	6	6	5	5
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°	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1710.7	1711.7	1713.2	1711.2	1706.2
5°	1673.9	1676.9	1678.0	1674.4	1670.4
7.5°	1613.5	1609.9	1613.0	1606.9	1601.9
10°	1514.7	1510.2	1508.6	1499.6	1499.6
12.5°	1392.8	1391.2	1392.2	1387.7	1380.7
15°	1249.6	1253.2	1261.2	1256.2	1247.6
17.5°	1098.0	1103.0	1110.1	1108.6	1097.0
20°	929.7	944.3	954.4	944.8	928.2
22.5°	738.2	769.4	795.1	775.0	747.8
25°	569.4	596.6	642.0	607.7	580.5
27.5°	431.8	451.5	492.8	459.0	440.4
30°	316.4	328.5	357.3	335.1	322.0
32.5°	226.2	234.8	246.9	233.8	227.3
35°	158.2	162.8	168.3	163.3	158.7
37.5°	111.4	112.9	116.9	112.9	110.9
40°	78.1	78.6	81.6	79.1	78.1
42.5°	56.4	56.4	57.9	56.9	56.4
45°	40.3	40.8	41.8	41.3	40.8
47.5°	28.7	29.7	29.7	30.2	28.2
50°	17.1	21.2	21.7	21.2	17.1
52.5°	9.1	12.6	15.6	12.6	9.1
55°	5.5	7.6	10.6	7.6	6.0
57.5°	5.5	5.5	7.1	6.0	5.5
60°	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5
65°	5.0	5.5	5.5	5.5	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	4.5	5.0	5.0
72.5°	4.5	4.5	4.0	4.5	4.5
75°	3.5	3.5	3.5	3.5	3.5
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.0	2.5	2.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)