

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: P283923

Luminaire Tested: **LDA2B109030D010 EU2B10WFL559030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283923  
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: LDA2B109030D010 EU2B10WFL559030 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 780.9 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

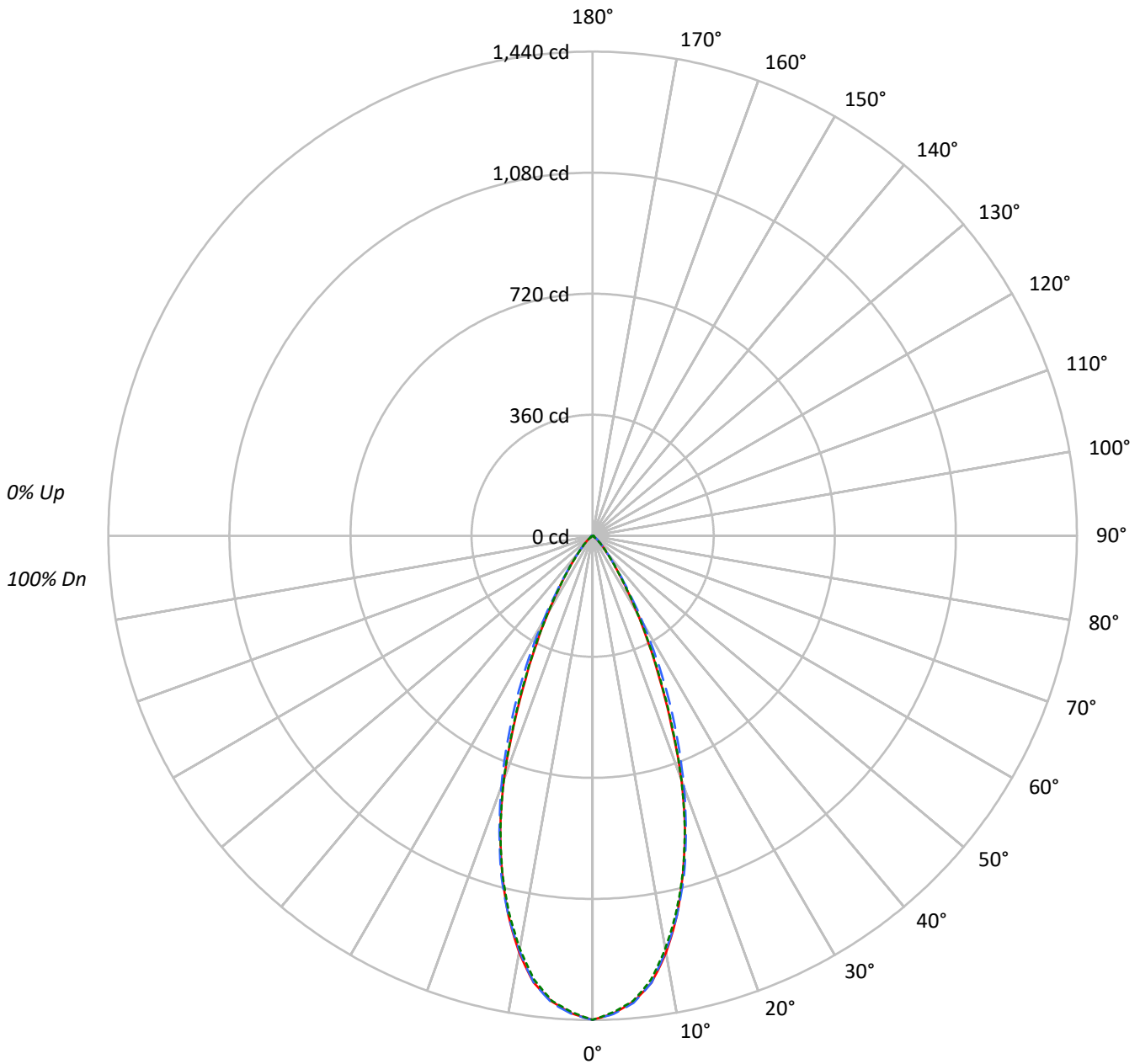
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	710293	710293	710293
5°	688937	690621	687501
10°	630624	628120	624312
15°	530430	535385	529613
20°	405634	416397	405004
25°	257593	290418	262601
30°	149827	169140	152448
35°	79200	84259	79441
40°	41798	43666	41798
45°	23374	24281	23653
50°	10899	13816	10899
55°	3957	7569	4301
60°	4539	4539	4539
65°	4903	5370	4903
70°	6058	5481	6058
75°	5528	5528	5528
80°	5966	4830	5966
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.5	16.5
10°-20°	286.1	36.6
20°-30°	231.1	29.6
30°-40°	91.3	11.7
40°-50°	28.0	3.6
50°-60°	7.2	0.9
60°-70°	4.4	0.6
70°-80°	3.2	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°	645.8	82.7
0°-40°	737.1	94.4
0°-60°	772.4	98.9
0°-90°	780.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1391	1394	1394	1392	1388	129
15°	1038	1042	1048	1044	1037	285
25°	473	496	534	505	482	220
35°	132	135	140	136	132	88
45°	34	34	35	34	34	27
55°	5	6	9	6	5	6
65°	4	5	5	5	4	4
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°	1439.7	1439.7	1439.7	1439.7	1439.7
2.5°	1421.7	1422.5	1423.8	1422.1	1417.9
5°	1391.1	1393.6	1394.5	1391.6	1388.2
7.5°	1340.9	1338.0	1340.5	1335.4	1331.3
10°	1258.8	1255.0	1253.8	1246.2	1246.2
12.5°	1157.5	1156.2	1157.0	1153.3	1147.4
15°	1038.5	1041.5	1048.2	1044.0	1036.9
17.5°	912.5	916.7	922.5	921.3	911.6
20°	772.6	784.8	793.1	785.2	771.4
22.5°	613.5	639.5	660.8	644.1	621.4
25°	473.2	495.8	533.5	505.0	482.4
27.5°	358.9	375.2	409.6	381.5	366.0
30°	263.0	273.0	296.9	278.5	267.6
32.5°	188.0	195.1	205.2	194.3	188.9
35°	131.5	135.3	139.9	135.7	131.9
37.5°	92.5	93.8	97.2	93.8	92.1
40°	64.9	65.3	67.8	65.7	64.9
42.5°	46.9	46.9	48.2	47.3	46.9
45°	33.5	33.9	34.8	34.3	33.9
47.5°	23.9	24.7	24.7	25.1	23.5
50°	14.2	17.6	18.0	17.6	14.2
52.5°	7.5	10.5	13.0	10.5	7.5
55°	4.6	6.3	8.8	6.3	5.0
57.5°	4.6	4.6	5.9	5.0	4.6
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.2	4.6	4.6	4.6	4.2
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.8	4.2	4.2
72.5°	3.8	3.8	3.4	3.8	3.8
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	1.7	2.1	2.1
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.8	0.8	0.8	0.8	0.8
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)