

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: P284112

Luminaire Tested: **LDA2B209050D010 EU2B20WFL559050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284112  
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: LDA2B209050D010 EU2B20WFL559050 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 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: 1461.6 lumens  
Efficiency: N/A  
Efficacy: 71.0 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

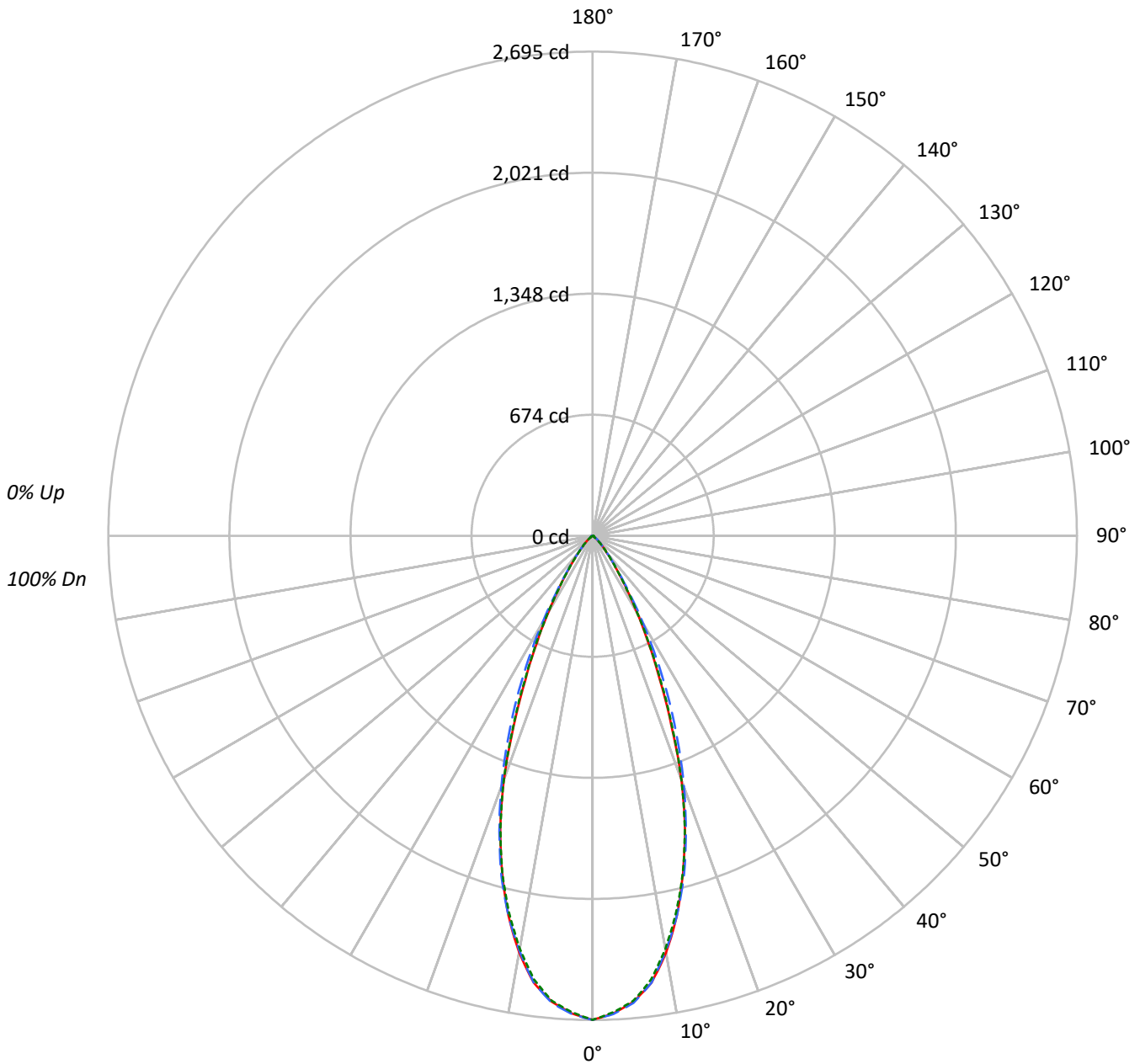
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1329462	1329462	1329462
5°	1289522	1292593	1286799
10°	1180342	1175633	1168569
15°	992826	1002020	991243
20°	759238	779399	757978
25°	482144	543602	491507
30°	280399	316574	285298
35°	148222	157678	148704
40°	78251	81793	78251
45°	43747	45422	44305
50°	20416	25866	20416
55°	7397	14192	8085
60°	8486	8486	8486
65°	9106	10040	9106
70°	11251	10242	11251
75°	10484	10484	10484
80°	11081	8808	11081
85°	9057	9057	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.5	16.5
10°-20°	535.6	36.6
20°-30°	432.5	29.6
30°-40°	171.0	11.7
40°-50°	52.5	3.6
50°-60°	13.5	0.9
60°-70°	8.2	0.6
70°-80°	6.0	0.4
80°-90°	1.8	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°	1208.6	82.7
0°-40°	1379.6	94.4
0°-60°	1445.6	98.9
0°-90°	1461.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2604	2608	2610	2604	2598	241
15°	1944	1949	1962	1954	1941	534
25°	886	928	999	945	903	412
35°	246	253	262	254	247	165
45°	63	64	65	64	64	51
55°	9	12	16	12	9	11
65°	8	9	9	9	8	8
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2694.7	2694.7	2694.7	2694.7	2694.7
2.5°	2661.0	2662.5	2664.9	2661.8	2653.9
5°	2603.8	2608.5	2610.0	2604.5	2598.3
7.5°	2509.7	2504.2	2508.9	2499.5	2491.7
10°	2356.1	2349.0	2346.7	2332.6	2332.6
12.5°	2166.4	2164.1	2165.6	2158.6	2147.6
15°	1943.8	1949.3	1961.8	1954.0	1940.7
17.5°	1707.9	1715.7	1726.7	1724.3	1706.3
20°	1446.1	1468.8	1484.5	1469.6	1443.7
22.5°	1148.3	1196.9	1236.8	1205.5	1163.2
25°	885.7	928.0	998.6	945.3	902.9
27.5°	671.7	702.3	766.6	714.0	685.0
30°	492.2	511.0	555.7	521.2	500.8
32.5°	351.9	365.2	384.1	363.7	353.5
35°	246.1	253.2	261.8	253.9	246.9
37.5°	173.2	175.6	181.8	175.6	172.4
40°	121.5	122.3	127.0	123.1	121.5
42.5°	87.8	87.8	90.1	88.6	87.8
45°	62.7	63.5	65.1	64.3	63.5
47.5°	44.7	46.2	46.2	47.0	43.9
50°	26.6	32.9	33.7	32.9	26.6
52.5°	14.1	19.6	24.3	19.6	14.1
55°	8.6	11.8	16.5	11.8	9.4
57.5°	8.6	8.6	11.0	9.4	8.6
60°	8.6	8.6	8.6	8.6	8.6
62.5°	8.6	8.6	8.6	8.6	8.6
65°	7.8	8.6	8.6	8.6	7.8
67.5°	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.1	7.8	7.8
72.5°	7.1	7.1	6.3	7.1	7.1
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.9	3.9	3.1	3.9	3.9
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)