

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: P284103

Luminaire Tested: **LDA2B209040D010 EU2B20WFL559040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284103  
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: LDA2B209040D010 EU2B20WFL559040 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 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: 1532.6 lumens  
Efficiency: N/A  
Efficacy: 74.4 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

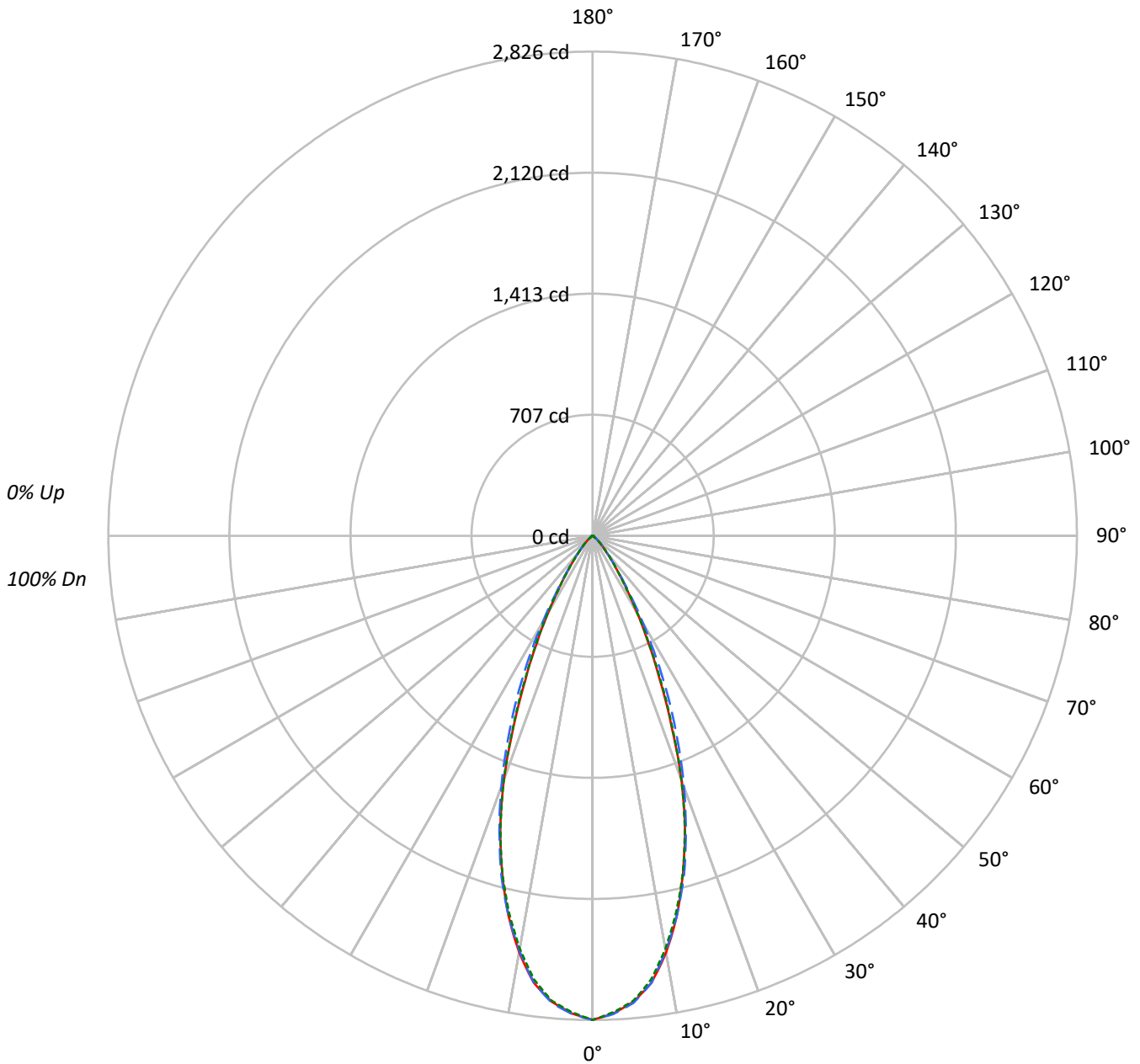
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1394043	1394043	1394043
5°	1352171	1355440	1349348
10°	1237703	1232743	1225329
15°	1041094	1050747	1039408
20°	796147	817306	794835
25°	505551	570004	515404
30°	294014	331956	299199
35°	155449	165327	155931
40°	82050	85721	82050
45°	45910	47584	46468
50°	21414	27094	21414
55°	7741	14881	8515
60°	8881	8881	8881
65°	9573	10507	9573
70°	11828	10674	11828
75°	11056	11056	11056
80°	11649	9376	11649
85°	9057	9057	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.2	16.5
10°-20°	561.6	36.6
20°-30°	453.6	29.6
30°-40°	179.3	11.7
40°-50°	55.0	3.6
50°-60°	14.2	0.9
60°-70°	8.6	0.6
70°-80°	6.3	0.4
80°-90°	1.9	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°	1267.4	82.7
0°-40°	1446.6	94.4
0°-60°	1515.9	98.9
0°-90°	1532.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2826	2826	2826	2826	2826	
5°	2730	2735	2737	2731	2725	253
15°	2038	2044	2057	2049	2035	560
25°	929	973	1047	991	947	432
35°	258	266	274	266	259	173
45°	66	67	68	67	67	54
55°	9	12	17	12	10	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°	2825.6	2825.6	2825.6	2825.6	2825.6
2.5°	2790.3	2791.9	2794.4	2791.1	2782.9
5°	2730.3	2735.2	2736.9	2731.1	2724.6
7.5°	2631.7	2625.9	2630.9	2621.0	2612.8
10°	2470.6	2463.2	2460.7	2445.9	2445.9
12.5°	2271.7	2269.2	2270.9	2263.5	2252.0
15°	2038.3	2044.0	2057.2	2049.0	2035.0
17.5°	1790.9	1799.1	1810.6	1808.2	1789.2
20°	1516.4	1540.2	1556.7	1541.0	1513.9
22.5°	1204.1	1255.0	1296.9	1264.1	1219.7
25°	928.7	973.1	1047.1	991.2	946.8
27.5°	704.4	736.4	803.8	748.7	718.3
30°	516.1	535.9	582.7	546.6	525.2
32.5°	369.0	383.0	402.7	381.4	370.7
35°	258.1	265.5	274.5	266.3	258.9
37.5°	181.6	184.1	190.7	184.1	180.8
40°	127.4	128.2	133.1	129.0	127.4
42.5°	92.1	92.1	94.5	92.9	92.1
45°	65.8	66.6	68.2	67.4	66.6
47.5°	46.8	48.5	48.5	49.3	46.0
50°	27.9	34.5	35.3	34.5	27.9
52.5°	14.8	20.5	25.5	20.5	14.8
55°	9.0	12.3	17.3	12.3	9.9
57.5°	9.0	9.0	11.5	9.9	9.0
60°	9.0	9.0	9.0	9.0	9.0
62.5°	9.0	9.0	9.0	9.0	9.0
65°	8.2	9.0	9.0	9.0	8.2
67.5°	8.2	8.2	8.2	8.2	8.2
70°	8.2	8.2	7.4	8.2	8.2
72.5°	7.4	7.4	6.6	7.4	7.4
75°	5.8	5.8	5.8	5.8	5.8
77.5°	4.9	4.9	4.9	4.9	4.9
80°	4.1	4.1	3.3	4.1	4.1
82.5°	2.5	2.5	2.5	2.5	2.5
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)