

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: P282374

Luminaire Tested: **LDA2B208030D010 EU2B20NFL258030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B208030D010 EU2B20NFL258030 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1836.6 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

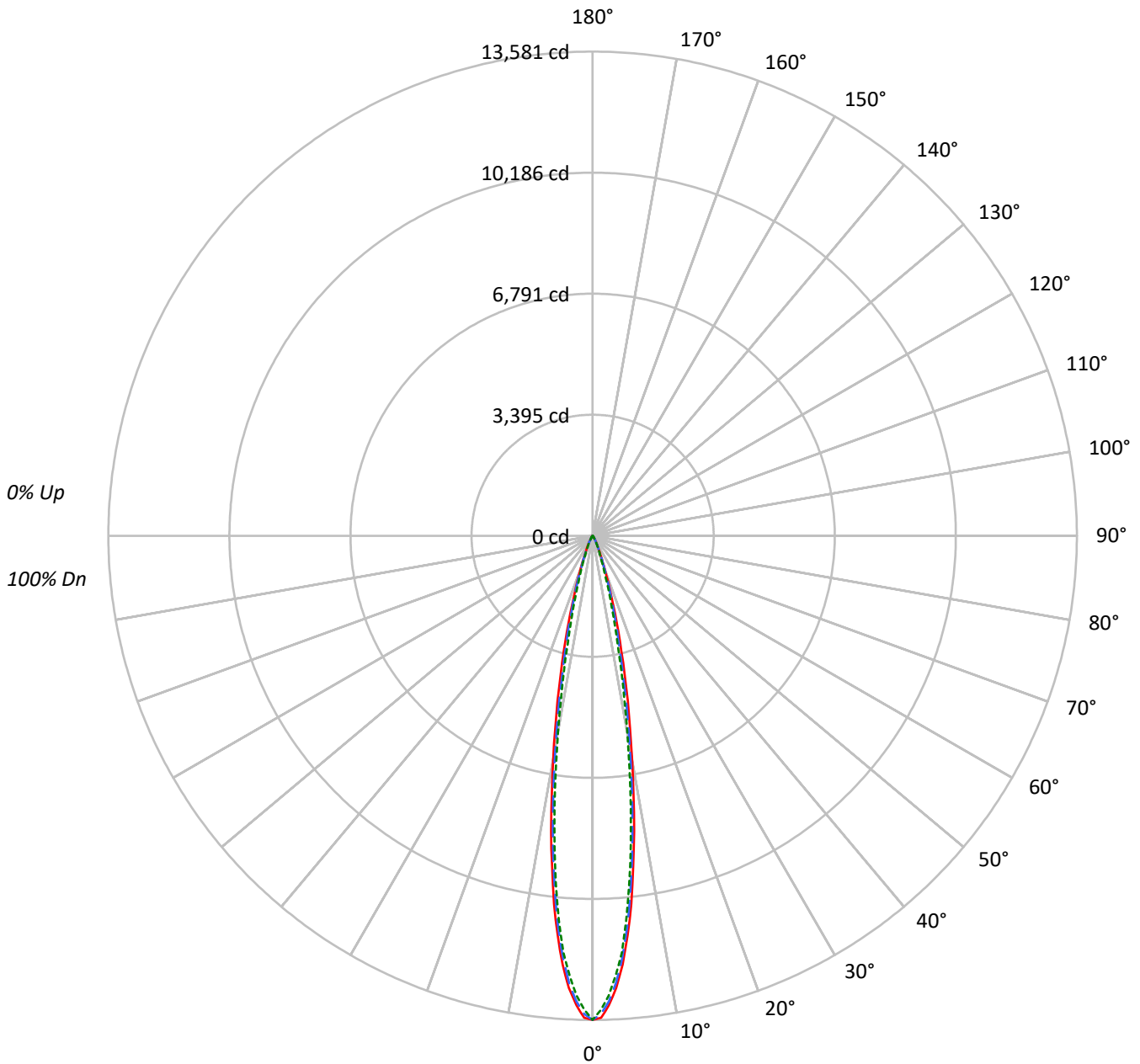
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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	100	99	97	97	100													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95	95	94	92													
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	94	93	92	91	90	88													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93	92	91	90	89	88	86													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	89	88	87	86	85	84	83													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	87	86	85	84	83	81													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86	85	84	83	82	81	79													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84	83	82	81	80	79	77													
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	82	81	80	79	78	77	75													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81	80	79	78	77	76	74													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79	78	77	76	75	74	72													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6700198	6700198	6700198
5°	5575285	5473066	5362577
10°	3193450	2996718	2796780
15°	1420388	1261489	1057132
20°	515259	484493	383846
25°	197876	184757	159063
30°	85339	79357	70413
35°	40353	40353	33427
40°	20223	20931	16874
45°	11722	10954	10256
50°	8059	7215	7215
55°	6279	4473	5419
60°	5131	3059	4144
65°	3619	2452	3619
70°	3029	1442	3029
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	883.3	48.1
10°-20°	714.8	38.9
20°-30°	172.4	9.4
30°-40°	43.9	2.4
40°-50°	13.1	0.7
50°-60°	5.6	0.3
60°-70°	2.7	0.1
70°-80°	0.9	0.0
80°-90°	0.0	0.0
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°	1770.4	96.4
0°-40°	1814.4	98.8
0°-60°	1833.1	99.8
0°-90°	1836.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13581	13581	13581	13581	13581	
5°	11258	11154	11051	10955	10828	910
15°	2781	2715	2470	2225	2070	793
25°	364	366	339	308	292	188
35°	67	68	67	61	56	46
45°	17	17	16	15	15	14
55°	7	6	5	5	6	6
65°	3	3	2	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13580.7	13580.7	13580.7	13580.7	13580.7
1°	13520.0	13425.7	13414.2	13472.8	13300.0
2°	13174.3	13107.3	13068.5	13103.1	12907.2
3°	12699.9	12634.9	12564.7	12565.8	12346.9
4°	12053.6	12002.3	11883.9	11848.3	11721.6
5°	11257.6	11153.9	11051.2	10954.9	10828.1
6°	10377.7	10243.7	10097.0	9953.5	9823.7
7°	9342.9	9253.9	9060.1	8864.2	8754.3
8°	8369.9	8226.4	8000.1	7755.0	7661.8
9°	7323.5	7220.8	6961.1	6676.2	6583.0
10°	6374.5	6267.7	5981.8	5664.4	5582.7
11°	5484.2	5383.7	5086.2	4753.1	4666.2
12°	4731.2	4588.7	4247.2	3958.2	3873.3
13°	3981.2	3883.8	3560.1	3274.2	3109.8
14°	3343.3	3262.7	2969.4	2718.0	2544.2
15°	2780.9	2714.9	2469.8	2224.7	2069.7
16°	2281.3	2240.4	2046.6	1809.9	1683.2
17°	1850.8	1813.1	1689.5	1471.6	1364.8
18°	1494.7	1489.4	1386.8	1198.2	1102.9
19°	1229.7	1227.6	1133.3	975.1	896.6
20°	981.4	995.0	922.8	784.5	731.1
21°	800.2	807.6	749.9	645.2	597.0
22°	651.5	656.7	619.0	533.1	506.9
23°	534.2	537.3	505.9	442.0	419.0
24°	439.9	442.0	413.7	368.7	348.8
25°	363.5	365.5	339.4	307.9	292.2
26°	301.7	303.7	280.7	258.7	243.0
27°	250.3	254.5	231.5	217.9	201.1
28°	213.7	214.7	193.8	185.4	169.7
29°	174.9	181.2	163.4	156.1	144.5
30°	149.8	152.9	139.3	134.1	123.6
32.5°	99.5	101.6	95.3	91.1	82.7
35°	67.0	68.1	67.0	60.7	55.5
37.5°	46.1	46.1	47.1	39.8	37.7
40°	31.4	31.4	32.5	27.2	26.2
42.5°	23.0	23.0	22.0	18.9	18.9
45°	16.8	16.8	15.7	14.7	14.7
47.5°	13.6	12.6	11.5	11.5	11.5
50°	10.5	10.5	9.4	8.4	9.4
52.5°	8.4	8.4	7.3	7.3	7.3
55°	7.3	6.3	5.2	5.2	6.3
57.5°	5.2	5.2	4.2	4.2	5.2
60°	5.2	4.2	3.1	4.2	4.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	1.0	1.0	2.1
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	0.0	1.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.2	3.1	3.1	3.1	3.1
65°	3.1	3.1	2.1	2.1	3.1



(END OF REPORT)