

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: P283736

Luminaire Tested: **LDA2B208050D010 EU2B20FL408050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B208050D010 EU2B20FL408050 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1842.8 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

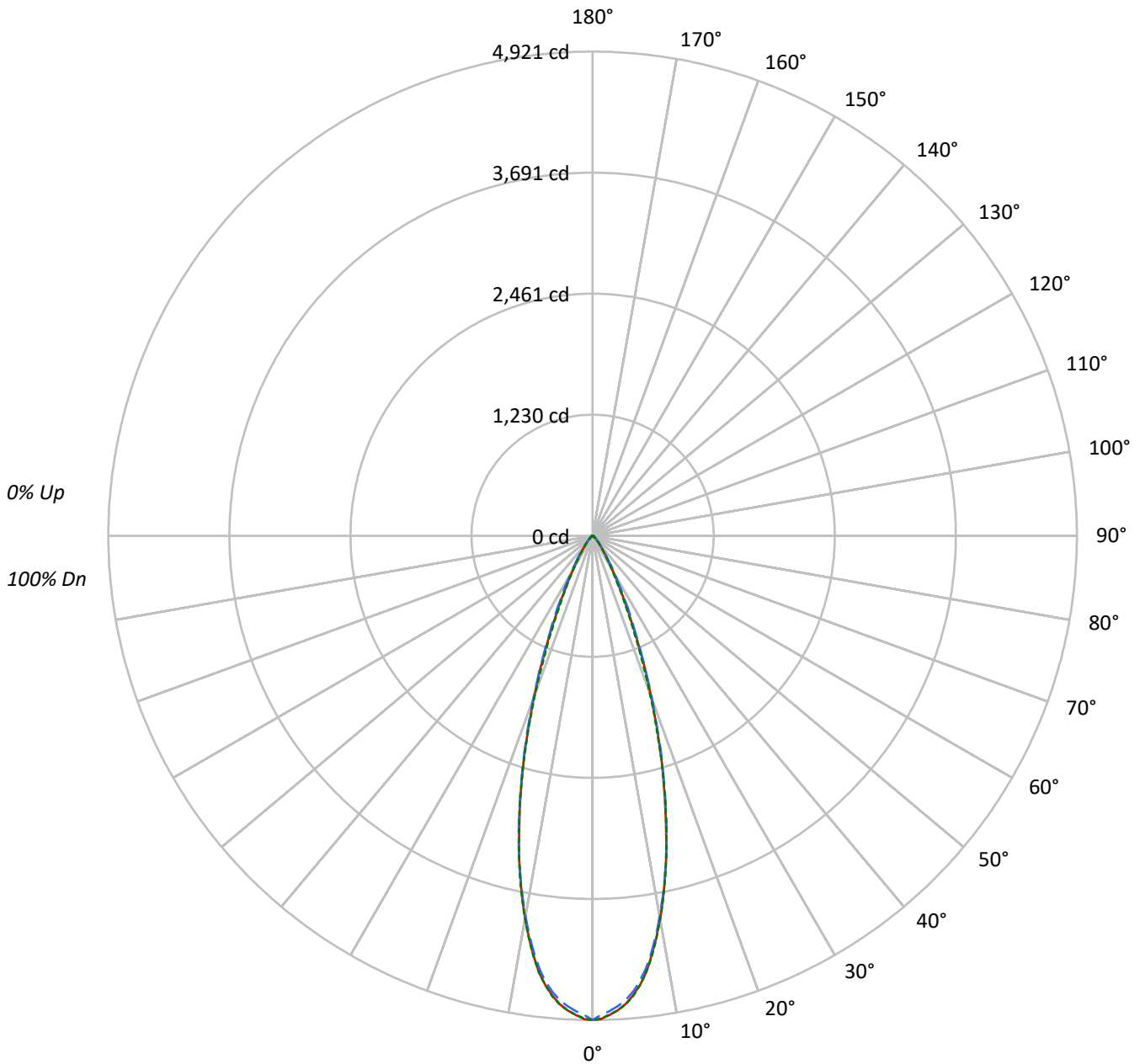
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	2427981	2427981	2427981
5°	2323597	2306164	2327163
10°	1979594	1967169	1981648
15°	1459053	1468554	1463803
20°	910865	927666	890757
25°	470494	504844	446869
30°	225595	258580	214999
35°	116421	128889	108953
40°	65241	68590	61956
45°	39700	39700	38235
50°	20647	25405	20647
55°	10666	16859	11526
60°	12235	12235	12235
65°	13308	13308	13308
70°	16444	14858	16444
75°	15821	15821	15821
80°	14774	14774	14774
85°	11887	11887	11887



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.3	23.0
10°-20°	777.5	42.2
20°-30°	421.5	22.9
30°-40°	135.3	7.3
40°-50°	46.1	2.5
50°-60°	16.1	0.9
60°-70°	11.8	0.6
70°-80°	8.6	0.5
80°-90°	2.5	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°	1622.4	88.0
0°-40°	1757.7	95.4
0°-60°	1820.0	98.8
0°-90°	1842.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4921	4921	4921	4921	4921	
5°	4692	4663	4657	4703	4699	424
15°	2857	2880	2875	2889	2866	774
25°	864	904	927	863	821	414
35°	193	202	214	194	181	130
45°	57	58	57	57	55	45
55°	12	16	20	16	13	14
65°	11	12	11	12	11	12
75°	8	8	8	8	8	9
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°	4921.3	4921.3	4921.3	4921.3	4921.3
1°	4913.0	4877.9	4872.7	4918.2	4907.8
2°	4873.7	4840.6	4835.5	4881.0	4871.7
3°	4830.3	4800.3	4790.0	4837.5	4831.3
4°	4772.4	4744.5	4735.2	4782.7	4777.6
5°	4691.8	4662.8	4656.6	4703.1	4699.0
6°	4592.5	4568.7	4557.4	4603.9	4595.6
7°	4468.4	4446.7	4434.3	4468.4	4472.6
8°	4307.2	4296.8	4282.3	4316.5	4316.5
9°	4135.5	4126.2	4110.7	4141.7	4141.7
10°	3951.5	3945.3	3926.7	3955.6	3955.6
11°	3749.9	3746.8	3733.3	3757.1	3757.1
12°	3537.9	3545.2	3532.8	3553.5	3546.2
13°	3326.0	3322.9	3323.9	3339.4	3328.1
14°	3086.1	3104.7	3107.8	3117.2	3099.6
15°	2856.6	2880.4	2875.2	2888.7	2865.9
16°	2621.9	2648.8	2647.8	2650.9	2629.2
17°	2402.7	2418.3	2419.3	2416.2	2389.3
18°	2169.1	2190.8	2190.8	2185.6	2153.6
19°	1940.6	1957.1	1968.5	1957.1	1919.9
20°	1734.9	1746.2	1766.9	1738.0	1696.6
21°	1537.4	1547.7	1565.3	1531.2	1485.7
22°	1348.2	1361.6	1378.2	1338.9	1291.3
23°	1171.4	1202.4	1208.6	1154.8	1114.5
24°	1009.1	1044.2	1054.6	999.8	957.4
25°	864.3	903.6	927.4	863.3	820.9
26°	739.2	777.5	806.4	742.3	702.0
27°	629.6	670.0	699.9	640.0	601.7
28°	535.6	574.8	605.9	550.0	513.8
29°	465.2	488.0	519.0	472.5	439.4
30°	396.0	420.8	453.9	406.3	377.4
32.5°	271.9	285.4	311.2	282.2	259.5
35°	193.3	201.6	214.0	194.4	180.9
37.5°	137.5	141.6	148.9	137.5	130.3
40°	101.3	103.4	106.5	100.3	96.2
42.5°	75.5	76.5	76.5	74.4	72.4
45°	56.9	57.9	56.9	56.9	54.8
47.5°	41.4	44.5	43.4	43.4	40.3
50°	26.9	33.1	33.1	32.1	26.9
52.5°	16.5	22.7	25.8	22.7	17.6
55°	12.4	15.5	19.6	15.5	13.4
57.5°	12.4	12.4	14.5	12.4	12.4
60°	12.4	12.4	12.4	12.4	12.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	11.4	11.4	11.4	11.4	11.4
70°	11.4	11.4	10.3	11.4	11.4
72.5°	10.3	10.3	9.3	10.3	9.3
75°	8.3	8.3	8.3	8.3	8.3
77.5°	6.2	6.2	6.2	6.2	6.2
80°	5.2	5.2	5.2	5.2	5.2
82.5°	3.1	3.1	3.1	4.1	3.1
85°	2.1	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	12.4	12.4	12.4	12.4	12.4
65°	11.4	12.4	11.4	12.4	11.4



(END OF REPORT)