

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: P283720

Luminaire Tested: **LDA2B208030D010 EU2B20FL408030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283720  
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: LDA2B208030D010 EU2B20FL408030 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1742.7 lumens  
Efficiency: N/A  
Efficacy: 84.6 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

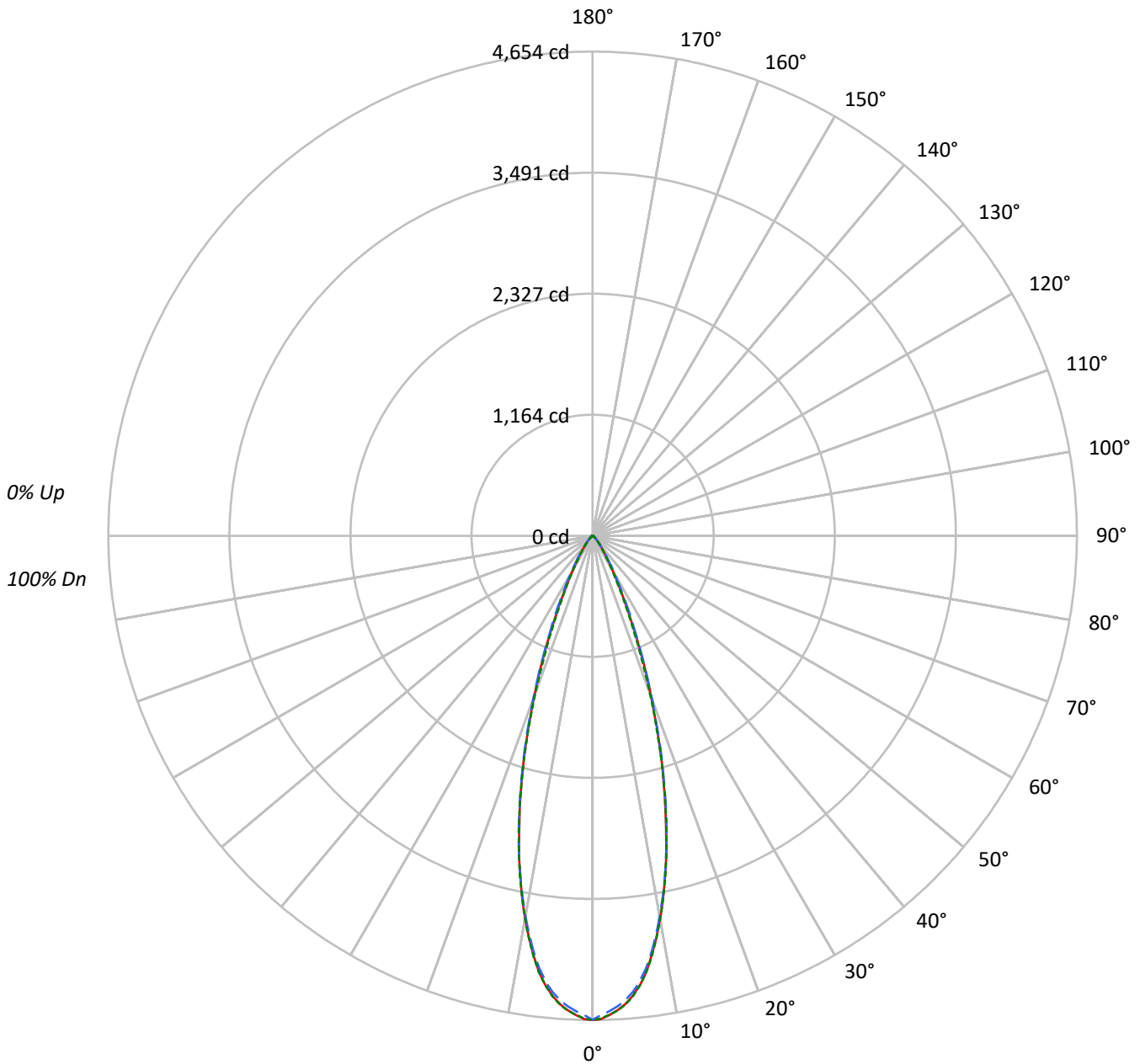
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2296056	2296056	2296056
5°	2197309	2180867	2200726
10°	1872035	1860262	1873989
15°	1379782	1388772	1384277
20°	861355	877264	842350
25°	444964	477408	422590
30°	213347	244509	203321
35°	110097	121902	103051
40°	61699	64855	58543
45°	37537	37537	36142
50°	19495	24024	19495
55°	10064	15999	10924
60°	11545	11545	11545
65°	12608	12608	12608
70°	15579	14136	15579
75°	14868	14868	14868
80°	13922	13922	13922
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.3	23.0
10°-20°	735.3	42.2
20°-30°	398.6	22.9
30°-40°	128.0	7.3
40°-50°	43.6	2.5
50°-60°	15.3	0.9
60°-70°	11.1	0.6
70°-80°	8.1	0.5
80°-90°	2.3	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°	1534.2	88.0
0°-40°	1662.2	95.4
0°-60°	1721.1	98.8
0°-90°	1742.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4654	4654	4654	4654	4654	
5°	4437	4410	4404	4448	4444	401
15°	2701	2724	2719	2732	2710	732
25°	817	854	877	816	776	392
35°	183	191	202	184	171	123
45°	54	55	54	54	52	43
55°	12	15	19	15	13	13
65°	11	12	11	12	11	11
75°	8	8	8	8	8	8
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°	4653.9	4653.9	4653.9	4653.9	4653.9
1°	4646.1	4612.8	4607.9	4650.9	4641.2
2°	4608.9	4577.6	4572.7	4615.7	4606.9
3°	4567.8	4539.5	4529.7	4574.7	4568.8
4°	4513.1	4486.7	4477.9	4522.9	4518.0
5°	4436.8	4409.5	4403.6	4447.6	4443.7
6°	4343.0	4320.5	4309.7	4353.7	4345.9
7°	4225.6	4205.1	4193.4	4225.6	4229.6
8°	4073.1	4063.3	4049.7	4081.9	4081.9
9°	3910.8	3902.0	3887.4	3916.7	3916.7
10°	3736.8	3730.9	3713.3	3740.7	3740.7
11°	3546.1	3543.2	3530.5	3553.0	3553.0
12°	3345.7	3352.6	3340.8	3360.4	3353.5
13°	3145.3	3142.3	3143.3	3158.0	3147.2
14°	2918.4	2936.0	2939.0	2947.8	2931.2
15°	2701.4	2723.9	2719.0	2731.7	2710.2
16°	2479.5	2504.9	2503.9	2506.8	2486.3
17°	2272.2	2286.9	2287.8	2284.9	2259.5
18°	2051.2	2071.8	2071.8	2066.9	2036.6
19°	1835.2	1850.8	1861.6	1850.8	1815.6
20°	1640.6	1651.3	1670.9	1643.5	1604.4
21°	1453.8	1463.6	1480.2	1448.0	1405.0
22°	1274.9	1287.6	1303.3	1266.1	1221.2
23°	1107.7	1137.1	1142.9	1092.1	1054.0
24°	954.2	987.5	997.3	945.4	905.4
25°	817.4	854.5	877.0	816.4	776.3
26°	699.1	735.2	762.6	702.0	663.9
27°	595.4	633.6	661.9	605.2	569.0
28°	506.5	543.6	572.9	520.1	485.9
29°	440.0	461.5	490.8	446.8	415.5
30°	374.5	397.9	429.2	384.2	356.9
32.5°	257.1	269.8	294.3	266.9	245.4
35°	182.8	190.7	202.4	183.8	171.1
37.5°	130.0	133.9	140.8	130.0	123.2
40°	95.8	97.8	100.7	94.8	90.9
42.5°	71.4	72.4	72.4	70.4	68.4
45°	53.8	54.8	53.8	53.8	51.8
47.5°	39.1	42.0	41.1	41.1	38.1
50°	25.4	31.3	31.3	30.3	25.4
52.5°	15.6	21.5	24.4	21.5	16.6
55°	11.7	14.7	18.6	14.7	12.7
57.5°	11.7	11.7	13.7	11.7	11.7
60°	11.7	11.7	11.7	11.7	11.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	10.8	10.8	10.8	10.8	10.8
70°	10.8	10.8	9.8	10.8	10.8
72.5°	9.8	9.8	8.8	9.8	8.8
75°	7.8	7.8	7.8	7.8	7.8
77.5°	5.9	5.9	5.9	5.9	5.9
80°	4.9	4.9	4.9	4.9	4.9
82.5°	2.9	2.9	2.9	3.9	2.9
85°	2.0	2.0	2.0	2.0	2.0
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°	11.7	11.7	11.7	11.7	11.7
65°	10.8	11.7	10.8	11.7	10.8



(END OF REPORT)