

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: P283726

Luminaire Tested: **LDA2B208035D010 EU2B20FL408035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283726  
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: LDA2B208035D010 EU2B20FL408035 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: 1762.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

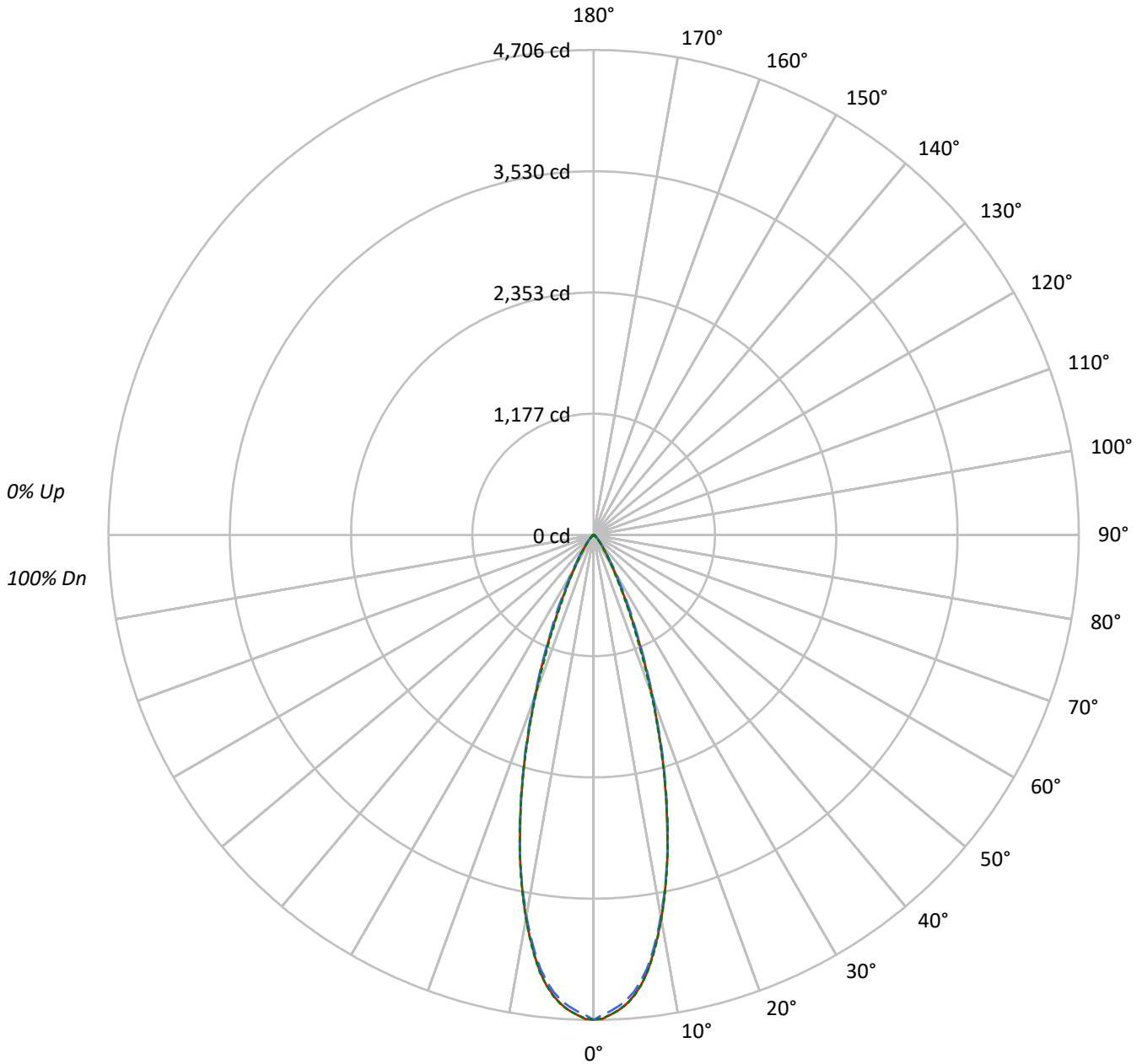
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2321514	2321514	2321514
5°	2221725	2205035	2225142
10°	1892825	1880902	1894779
15°	1395105	1404197	1399651
20°	870911	886977	851695
25°	449863	482688	427272
30°	215683	247243	205542
35°	111362	123227	104195
40°	62407	65563	59187
45°	37956	37956	36560
50°	19726	24254	19726
55°	10236	16171	11096
60°	11742	11742	11742
65°	12725	12725	12725
70°	15723	14281	15723
75°	15059	15059	15059
80°	13922	13922	13922
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.7	23.0
10°-20°	743.4	42.2
20°-30°	403.1	22.9
30°-40°	129.4	7.3
40°-50°	44.1	2.5
50°-60°	15.4	0.9
60°-70°	11.3	0.6
70°-80°	8.2	0.5
80°-90°	2.4	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°	1551.3	88.0
0°-40°	1680.6	95.4
0°-60°	1740.2	98.8
0°-90°	1762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4706	4706	4706	4706	4706	
5°	4486	4458	4452	4497	4493	406
15°	2731	2754	2749	2762	2740	740
25°	826	864	887	825	785	396
35°	185	193	205	186	173	125
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°	4705.5	4705.5	4705.5	4705.5	4705.5
1°	4697.6	4664.0	4659.1	4702.6	4692.7
2°	4660.0	4628.4	4623.5	4667.0	4658.1
3°	4618.5	4589.9	4580.0	4625.4	4619.5
4°	4563.2	4536.5	4527.6	4573.1	4568.1
5°	4486.1	4458.4	4452.4	4496.9	4493.0
6°	4391.2	4368.4	4357.5	4402.0	4394.1
7°	4272.5	4251.8	4239.9	4272.5	4276.5
8°	4118.3	4108.4	4094.6	4127.2	4127.2
9°	3954.2	3945.3	3930.5	3960.1	3960.1
10°	3778.3	3772.3	3754.5	3782.2	3782.2
11°	3585.5	3582.5	3569.7	3592.4	3592.4
12°	3382.8	3389.8	3377.9	3397.7	3390.7
13°	3180.2	3177.2	3178.2	3193.0	3182.2
14°	2950.8	2968.6	2971.6	2980.5	2963.7
15°	2731.4	2754.1	2749.2	2762.0	2740.3
16°	2507.0	2532.7	2531.7	2534.7	2513.9
17°	2297.4	2312.2	2313.2	2310.3	2284.5
18°	2074.0	2094.7	2094.7	2089.8	2059.2
19°	1855.5	1871.3	1882.2	1871.3	1835.7
20°	1658.8	1669.7	1689.4	1661.8	1622.2
21°	1470.0	1479.9	1496.7	1464.0	1420.6
22°	1289.1	1301.9	1317.7	1280.2	1234.7
23°	1120.0	1149.7	1155.6	1104.2	1065.7
24°	964.8	998.4	1008.3	955.9	915.4
25°	826.4	864.0	886.7	825.4	784.9
26°	706.8	743.4	771.1	709.8	671.2
27°	602.0	640.6	669.3	611.9	575.3
28°	512.1	549.6	579.3	525.9	491.3
29°	444.8	466.6	496.3	451.8	420.1
30°	378.6	402.3	434.0	388.5	360.8
32.5°	260.0	272.8	297.6	269.9	248.1
35°	184.9	192.8	204.6	185.8	173.0
37.5°	131.5	135.4	142.4	131.5	124.6
40°	96.9	98.9	101.8	95.9	91.9
42.5°	72.2	73.2	73.2	71.2	69.2
45°	54.4	55.4	54.4	54.4	52.4
47.5°	39.5	42.5	41.5	41.5	38.6
50°	25.7	31.6	31.6	30.6	25.7
52.5°	15.8	21.7	24.7	21.7	16.8
55°	11.9	14.8	18.8	14.8	12.9
57.5°	11.9	11.9	13.8	11.9	11.9
60°	11.9	11.9	11.9	11.9	11.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	10.9	10.9	10.9	10.9	10.9
70°	10.9	10.9	9.9	10.9	10.9
72.5°	9.9	9.9	8.9	9.9	8.9
75°	7.9	7.9	7.9	7.9	7.9
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°	3.0	3.0	3.0	4.0	3.0
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°	11.9	11.9	11.9	11.9	11.9
65°	10.9	11.9	10.9	11.9	10.9



(END OF REPORT)