

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: P283738

Luminaire Tested: **LDA2B208050D010 EU2B20FL408050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283738  
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 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: 1822.1 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

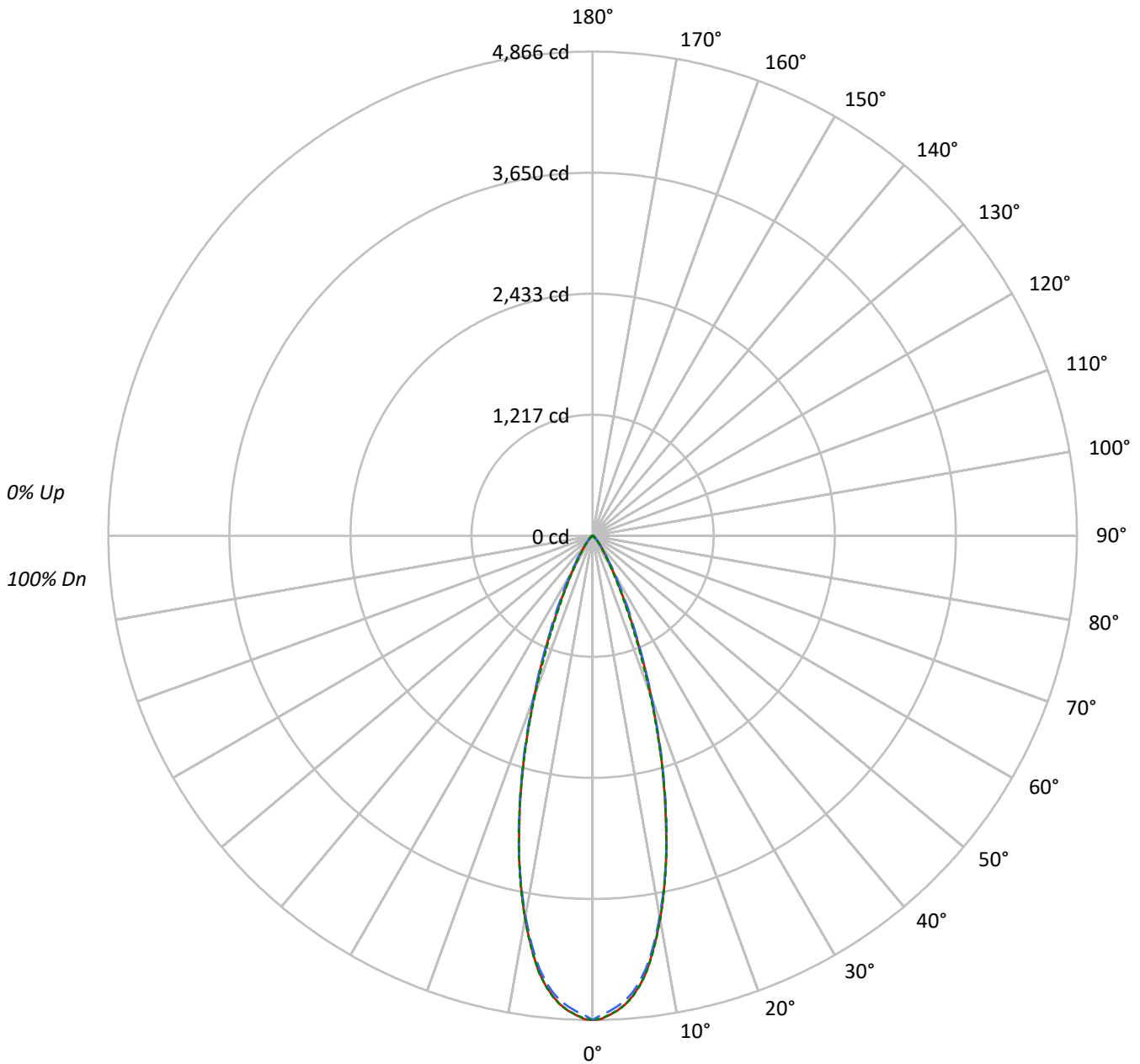
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2400698	2400698	2400698
5°	2297497	2280263	2301063
10°	1957350	1945077	1959404
15°	1442709	1452107	1447408
20°	900627	917271	880781
25°	465214	499182	441861
30°	223032	255675	212550
35°	115157	127443	107749
40°	64533	67817	61248
45°	39212	39212	37816
50°	20416	25098	20416
55°	10580	16687	11440
60°	12137	12137	12137
65°	13075	13075	13075
70°	16156	14713	16156
75°	15631	15631	15631
80°	14490	14490	14490
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.6	23.0
10°-20°	768.8	42.2
20°-30°	416.8	22.9
30°-40°	133.8	7.3
40°-50°	45.6	2.5
50°-60°	16.0	0.9
60°-70°	11.6	0.6
70°-80°	8.5	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°	1604.2	88.0
0°-40°	1738.0	95.4
0°-60°	1799.6	98.8
0°-90°	1822.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4866	4866	4866	4866	4866	
5°	4639	4610	4604	4650	4646	420
15°	2825	2848	2843	2856	2834	766
25°	855	894	917	854	812	410
35°	191	199	212	192	179	129
45°	56	57	56	56	54	45
55°	12	15	19	15	13	13
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°	4866.0	4866.0	4866.0	4866.0	4866.0
1°	4857.9	4823.1	4818.0	4863.0	4852.8
2°	4819.0	4786.3	4781.2	4826.2	4817.0
3°	4776.1	4746.4	4736.2	4783.2	4777.1
4°	4718.8	4691.2	4682.0	4729.1	4723.9
5°	4639.1	4610.5	4604.3	4650.3	4646.3
6°	4541.0	4517.4	4506.2	4552.2	4544.0
7°	4418.3	4396.8	4384.6	4418.3	4422.4
8°	4258.8	4248.6	4234.3	4268.0	4268.0
9°	4089.1	4079.9	4064.6	4095.2	4095.2
10°	3907.1	3901.0	3882.6	3911.2	3911.2
11°	3707.8	3704.7	3691.4	3715.0	3715.0
12°	3498.2	3505.4	3493.1	3513.6	3506.4
13°	3288.7	3285.6	3286.6	3302.0	3290.7
14°	3051.5	3069.9	3073.0	3082.2	3064.8
15°	2824.6	2848.1	2843.0	2856.2	2833.8
16°	2592.5	2619.1	2618.1	2621.1	2599.7
17°	2375.8	2391.1	2392.1	2389.1	2362.5
18°	2144.7	2166.2	2166.2	2161.1	2129.4
19°	1918.8	1935.2	1946.4	1935.2	1898.4
20°	1715.4	1726.6	1747.1	1718.4	1677.6
21°	1520.1	1530.4	1547.7	1514.0	1469.0
22°	1333.1	1346.3	1362.7	1323.9	1276.8
23°	1158.2	1188.9	1195.0	1141.9	1102.0
24°	997.7	1032.5	1042.7	988.5	946.6
25°	854.6	893.5	917.0	853.6	811.7
26°	730.9	768.8	797.4	734.0	694.1
27°	622.6	662.4	692.1	632.8	595.0
28°	529.5	568.4	599.1	543.9	508.1
29°	460.0	482.5	513.2	467.2	434.5
30°	391.5	416.1	448.8	401.8	373.1
32.5°	268.9	282.1	307.7	279.1	256.6
35°	191.2	199.3	211.6	192.2	178.9
37.5°	136.0	140.1	147.2	136.0	128.8
40°	100.2	102.2	105.3	99.2	95.1
42.5°	74.6	75.6	75.6	73.6	71.6
45°	56.2	57.2	56.2	56.2	54.2
47.5°	40.9	44.0	42.9	42.9	39.9
50°	26.6	32.7	32.7	31.7	26.6
52.5°	16.4	22.5	25.6	22.5	17.4
55°	12.3	15.3	19.4	15.3	13.3
57.5°	12.3	12.3	14.3	12.3	12.3
60°	12.3	12.3	12.3	12.3	12.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	11.2	11.2	11.2	11.2	11.2
70°	11.2	11.2	10.2	11.2	11.2
72.5°	10.2	10.2	9.2	10.2	9.2
75°	8.2	8.2	8.2	8.2	8.2
77.5°	6.1	6.1	6.1	6.1	6.1
80°	5.1	5.1	5.1	5.1	5.1
82.5°	3.1	3.1	3.1	4.1	3.1
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°	12.3	12.3	12.3	12.3	12.3
65°	11.2	12.3	11.2	12.3	11.2



(END OF REPORT)