

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: P283786

Luminaire Tested: **LDA2B209730D010 EU2B20FL409730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283786  
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: LDA2B209730D010 EU2B20FL409730 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: 1290.2 lumens  
Efficiency: N/A  
Efficacy: 62.6 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

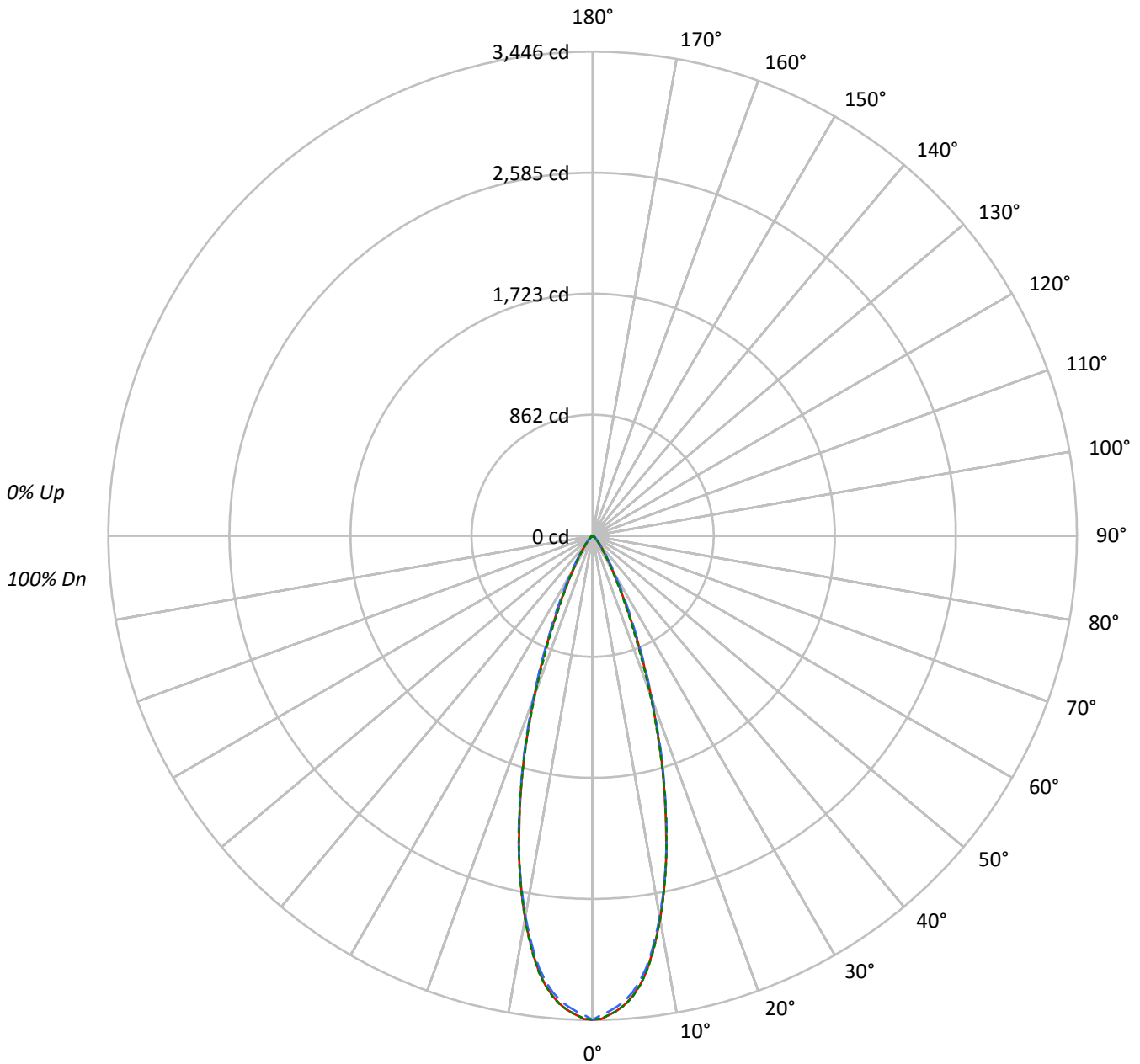
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1699927	1699927	1699927
5°	1626835	1614652	1629360
10°	1385991	1377274	1387444
15°	1021531	1028222	1024902
20°	637695	649508	623677
25°	329449	353456	312846
30°	157917	181046	150511
35°	81549	90222	76309
40°	45662	48045	43344
45°	27769	27769	26792
50°	14430	17807	14430
55°	7483	11870	8085
60°	8584	8584	8584
65°	9339	9339	9339
70°	11540	10386	11540
75°	11056	11056	11056
80°	10228	10228	10228
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	23.0
10°-20°	544.4	42.2
20°-30°	295.1	22.9
30°-40°	94.7	7.3
40°-50°	32.3	2.5
50°-60°	11.3	0.9
60°-70°	8.3	0.6
70°-80°	6.0	0.5
80°-90°	1.7	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°	1135.9	88.0
0°-40°	1230.6	95.4
0°-60°	1274.3	98.8
0°-90°	1290.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3446	3446	3446	3446	3446	
5°	3285	3265	3260	3293	3290	297
15°	2000	2017	2013	2022	2007	542
25°	605	633	649	604	575	290
35°	135	141	150	136	127	91
45°	40	40	40	40	38	32
55°	9	11	14	11	9	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3445.6	3445.6	3445.6	3445.6	3445.6
1°	3439.8	3415.2	3411.6	3443.4	3436.2
2°	3412.3	3389.1	3385.5	3417.4	3410.9
3°	3381.9	3360.9	3353.7	3387.0	3382.6
4°	3341.4	3321.8	3315.3	3348.6	3345.0
5°	3284.9	3264.6	3260.3	3292.9	3290.0
6°	3215.4	3198.8	3190.8	3223.4	3217.6
7°	3128.5	3113.3	3104.7	3128.5	3131.4
8°	3015.6	3008.4	2998.3	3022.1	3022.1
9°	2895.5	2888.9	2878.1	2899.8	2899.8
10°	2766.6	2762.3	2749.2	2769.5	2769.5
11°	2625.5	2623.3	2613.9	2630.5	2630.5
12°	2477.1	2482.1	2473.4	2487.9	2482.9
13°	2328.7	2326.5	2327.2	2338.1	2330.1
14°	2160.7	2173.8	2175.9	2182.5	2170.1
15°	2000.0	2016.7	2013.1	2022.5	2006.6
16°	1835.7	1854.5	1853.8	1856.0	1840.8
17°	1682.3	1693.1	1693.8	1691.7	1672.9
18°	1518.7	1533.9	1533.9	1530.3	1507.8
19°	1358.7	1370.3	1378.2	1370.3	1344.2
20°	1214.6	1222.6	1237.1	1216.8	1187.9
21°	1076.4	1083.6	1095.9	1072.0	1040.2
22°	943.9	953.3	964.9	937.4	904.1
23°	820.1	841.9	846.2	808.6	780.3
24°	706.5	731.1	738.3	700.0	670.3
25°	605.2	632.7	649.3	604.4	574.7
26°	517.6	544.3	564.6	519.7	491.5
27°	440.8	469.1	490.1	448.1	421.3
28°	375.0	402.5	424.2	385.1	359.8
29°	325.7	341.7	363.4	330.8	307.6
30°	277.2	294.6	317.8	284.5	264.2
32.5°	190.4	199.8	217.9	197.6	181.7
35°	135.4	141.2	149.8	136.1	126.7
37.5°	96.3	99.2	104.2	96.3	91.2
40°	70.9	72.4	74.6	70.2	67.3
42.5°	52.8	53.6	53.6	52.1	50.7
45°	39.8	40.5	39.8	39.8	38.4
47.5°	29.0	31.1	30.4	30.4	28.2
50°	18.8	23.2	23.2	22.4	18.8
52.5°	11.6	15.9	18.1	15.9	12.3
55°	8.7	10.9	13.8	10.9	9.4
57.5°	8.7	8.7	10.1	8.7	8.7
60°	8.7	8.7	8.7	8.7	8.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	8.0	8.0	8.0	8.0	8.0
70°	8.0	8.0	7.2	8.0	8.0
72.5°	7.2	7.2	6.5	7.2	6.5
75°	5.8	5.8	5.8	5.8	5.8
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	3.6	3.6	3.6
82.5°	2.2	2.2	2.2	2.9	2.2
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.7	8.7	8.7	8.7	8.7
65°	8.0	8.7	8.0	8.7	8.0



(END OF REPORT)