

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: P284054

Luminaire Tested: **LDA2B208030D010 EU2B20WFL558030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B208030D010 EU2B20WFL558030 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1844.5 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

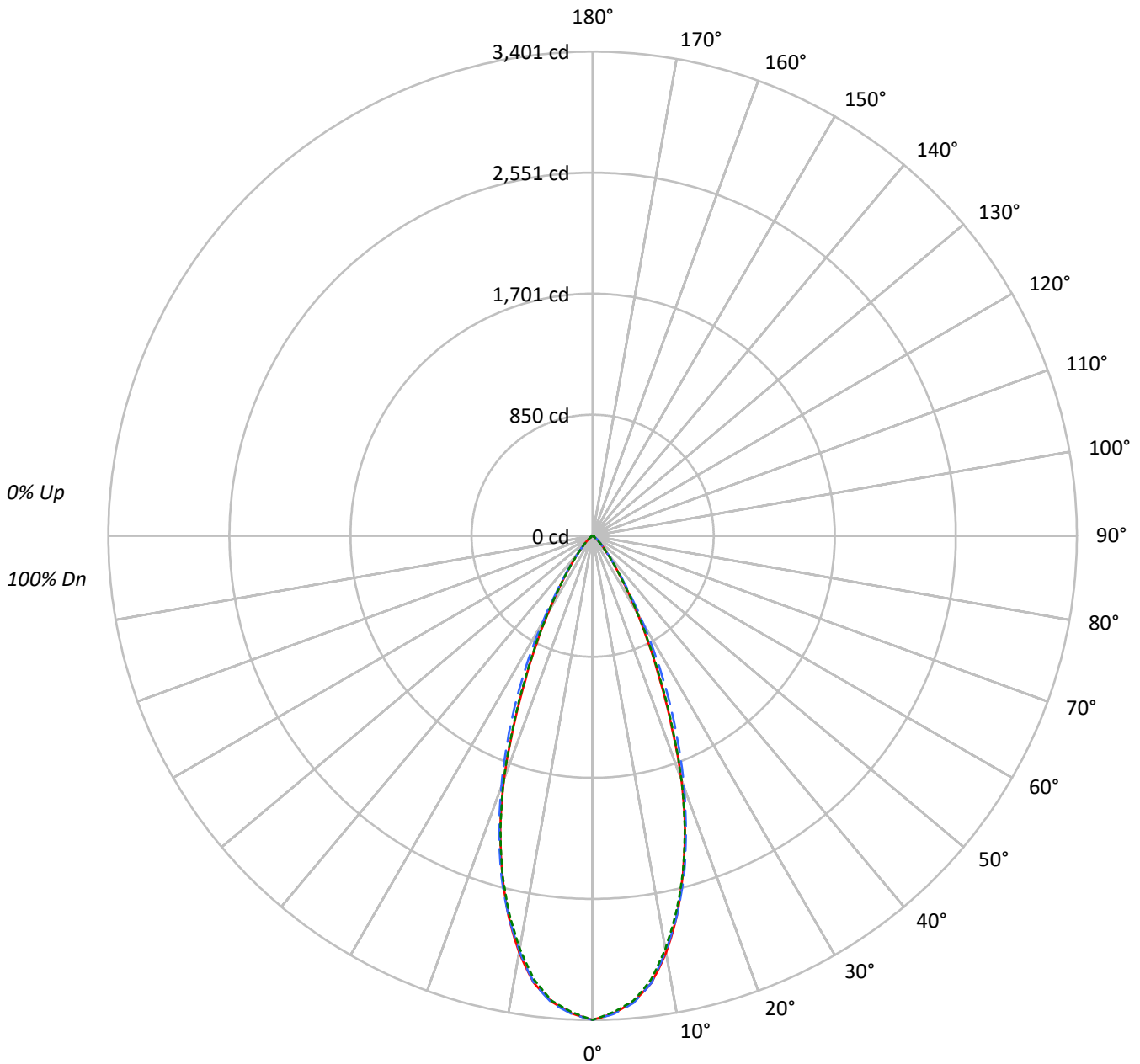
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

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

	0°	45°	90°
0°	1677775	1677775	1677775
5°	1627380	1631292	1623962
10°	1489592	1483631	1474713
15°	1252959	1264605	1250967
20°	958170	983634	956595
25°	608491	686008	620303
30°	353888	399520	360098
35°	187069	198994	187672
40°	98731	103175	98731
45°	55190	57283	55887
50°	25789	32620	25789
55°	9376	17891	10236
60°	10755	10755	10755
65°	11557	12725	11557
70°	14281	12838	14281
75°	13153	13153	13153
80°	13922	11365	13922
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.6	16.5
10°-20°	675.9	36.6
20°-30°	545.9	29.6
30°-40°	215.7	11.7
40°-50°	66.2	3.6
50°-60°	17.1	0.9
60°-70°	10.3	0.6
70°-80°	7.5	0.4
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°	1525.3	82.7
0°-40°	1741.1	94.4
0°-60°	1824.4	98.9
0°-90°	1844.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3401	3401	3401	3401	3401	
5°	3286	3292	3294	3287	3279	304
15°	2453	2460	2476	2466	2449	674
25°	1118	1171	1260	1193	1140	520
35°	311	320	330	320	312	208
45°	79	80	82	81	80	65
55°	11	15	21	15	12	14
65°	10	11	11	11	10	10
75°	7	7	7	7	7	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°	3400.7	3400.7	3400.7	3400.7	3400.7
2.5°	3358.2	3360.2	3363.1	3359.2	3349.3
5°	3286.0	3291.9	3293.9	3287.0	3279.1
7.5°	3167.3	3160.4	3166.3	3154.4	3144.5
10°	2973.4	2964.5	2961.5	2943.7	2943.7
12.5°	2734.0	2731.1	2733.1	2724.1	2710.3
15°	2453.1	2460.0	2475.9	2466.0	2449.2
17.5°	2155.4	2165.3	2179.1	2176.2	2153.4
20°	1825.0	1853.7	1873.5	1854.7	1822.0
22.5°	1449.1	1510.4	1560.9	1521.3	1467.9
25°	1117.8	1171.2	1260.2	1192.9	1139.5
27.5°	847.7	886.3	967.4	901.1	864.5
30°	621.2	644.9	701.3	657.8	632.1
32.5°	444.1	460.9	484.7	459.0	446.1
35°	310.6	319.5	330.4	320.5	311.6
37.5°	218.6	221.6	229.5	221.6	217.6
40°	153.3	154.3	160.2	155.3	153.3
42.5°	110.8	110.8	113.8	111.8	110.8
45°	79.1	80.1	82.1	81.1	80.1
47.5°	56.4	58.4	58.4	59.3	55.4
50°	33.6	41.5	42.5	41.5	33.6
52.5°	17.8	24.7	30.7	24.7	17.8
55°	10.9	14.8	20.8	14.8	11.9
57.5°	10.9	10.9	13.8	11.9	10.9
60°	10.9	10.9	10.9	10.9	10.9
62.5°	10.9	10.9	10.9	10.9	10.9
65°	9.9	10.9	10.9	10.9	9.9
67.5°	9.9	9.9	9.9	9.9	9.9
70°	9.9	9.9	8.9	9.9	9.9
72.5°	8.9	8.9	7.9	8.9	8.9
75°	6.9	6.9	6.9	6.9	6.9
77.5°	5.9	5.9	5.9	5.9	5.9
80°	4.9	4.9	4.0	4.9	4.9
82.5°	3.0	3.0	3.0	3.0	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°







(END OF REPORT)