

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: P284060

Luminaire Tested: **LDA2B208035D010 EU2B20WFL558035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284060  
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: LDA2B208035D010 EU2B20WFL558035 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: 1865.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

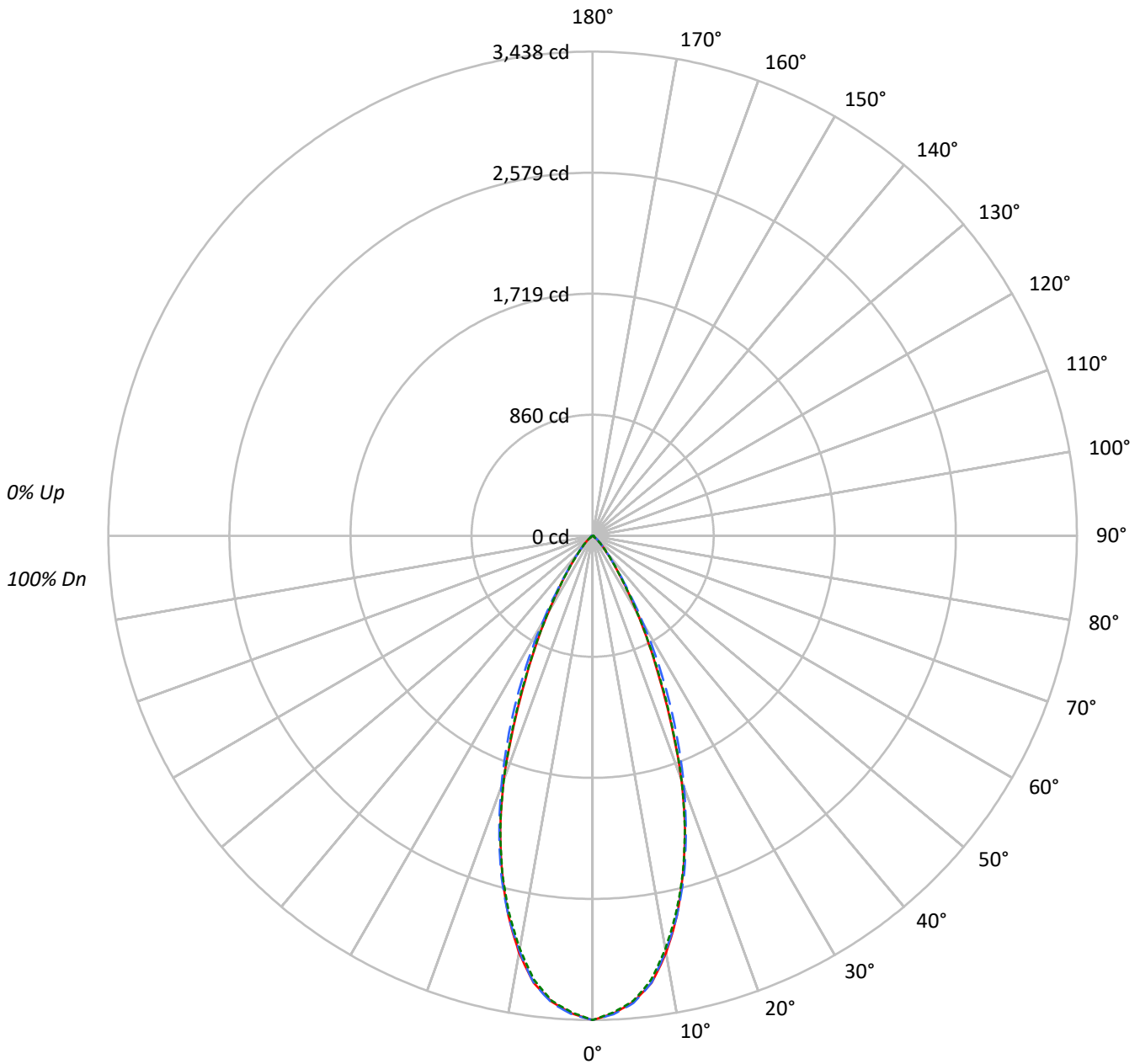
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

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

	0°	45°	90°
0°	1696425	1696425	1696425
5°	1645456	1649418	1641989
10°	1506124	1500113	1491095
15°	1266852	1278600	1264809
20°	968828	994554	967253
25°	615241	693629	627217
30°	357819	403964	364086
35°	189117	201163	189719
40°	99826	104334	99826
45°	55818	57911	56515
50°	26096	33004	26096
55°	9462	18063	10322
60°	10854	10854	10854
65°	11674	12841	11674
70°	14425	12982	14425
75°	13343	13343	13343
80°	14206	11365	14206
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.9	16.5
10°-20°	683.4	36.6
20°-30°	551.9	29.6
30°-40°	218.1	11.7
40°-50°	67.0	3.6
50°-60°	17.3	0.9
60°-70°	10.4	0.6
70°-80°	7.6	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°	1542.3	82.7
0°-40°	1760.4	94.4
0°-60°	1844.6	98.9
0°-90°	1865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3438	3438	3438	3438	3438	
5°	3322	3328	3330	3324	3316	307
15°	2480	2487	2503	2493	2476	681
25°	1130	1184	1274	1206	1152	526
35°	314	323	334	324	315	210
45°	80	81	83	82	81	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°	3438.5	3438.5	3438.5	3438.5	3438.5
2.5°	3395.5	3397.5	3400.5	3396.5	3386.5
5°	3322.5	3328.5	3330.5	3323.5	3315.5
7.5°	3202.4	3195.4	3201.4	3189.4	3179.4
10°	3006.4	2997.4	2994.4	2976.4	2976.4
12.5°	2764.4	2761.4	2763.4	2754.4	2740.4
15°	2480.3	2487.3	2503.3	2493.3	2476.3
17.5°	2179.3	2189.3	2203.3	2200.3	2177.3
20°	1845.3	1874.3	1894.3	1875.3	1842.3
22.5°	1465.2	1527.2	1578.2	1538.2	1484.2
25°	1130.2	1184.2	1274.2	1206.2	1152.2
27.5°	857.1	896.1	978.1	911.1	874.1
30°	628.1	652.1	709.1	665.1	639.1
32.5°	449.1	466.1	490.1	464.1	451.1
35°	314.0	323.0	334.0	324.0	315.0
37.5°	221.0	224.0	232.0	224.0	220.0
40°	155.0	156.0	162.0	157.0	155.0
42.5°	112.0	112.0	115.0	113.0	112.0
45°	80.0	81.0	83.0	82.0	81.0
47.5°	57.0	59.0	59.0	60.0	56.0
50°	34.0	42.0	43.0	42.0	34.0
52.5°	18.0	25.0	31.0	25.0	18.0
55°	11.0	15.0	21.0	15.0	12.0
57.5°	11.0	11.0	14.0	12.0	11.0
60°	11.0	11.0	11.0	11.0	11.0
62.5°	11.0	11.0	11.0	11.0	11.0
65°	10.0	11.0	11.0	11.0	10.0
67.5°	10.0	10.0	10.0	10.0	10.0
70°	10.0	10.0	9.0	10.0	10.0
72.5°	9.0	9.0	8.0	9.0	9.0
75°	7.0	7.0	7.0	7.0	7.0
77.5°	6.0	6.0	6.0	6.0	6.0
80°	5.0	5.0	4.0	5.0	5.0
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)