

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: P284070

Luminaire Tested: **LDA2B208040D010 EU2B20WFL558040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284070  
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: LDA2B208040D010 EU2B20WFL558040 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1750.8 lumens  
Efficiency: N/A  
Efficacy: 85.0 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

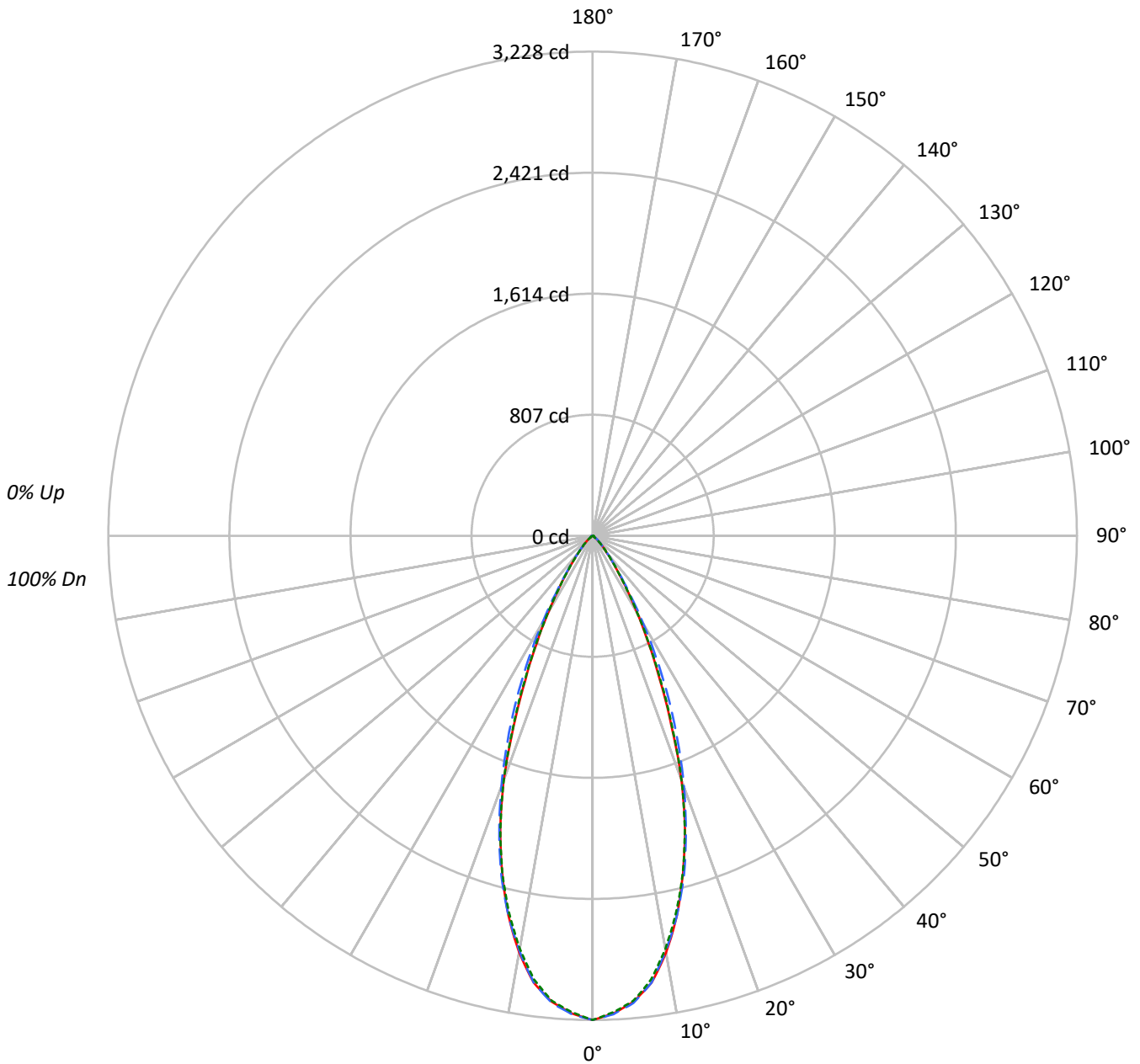
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P284070

CATALOG NUMBER: LDA2B208040D010 EU2B20WFL558040 2LBALPINSQ1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P284070

CATALOG NUMBER: LDA2B208040D010 EU2B20WFL558040 2LBALPINSQ1MB

**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°	1592523	1592523	1592523
5°	1544673	1548388	1541405
10°	1413895	1408234	1399768
15°	1189318	1200299	1187377
20°	909500	933651	907978
25°	577516	651114	588785
30°	335886	379239	341811
35°	177553	188876	178155
40°	93708	97958	93708
45°	52399	54352	53096
50°	24484	31008	24484
55°	8860	16945	9720
60°	10163	10163	10163
65°	10973	12024	10973
70°	13559	12261	13559
75°	12581	12581	12581
80°	13353	10796	13353
85°	10755	10755	10755



TEST NUMBER: P284070

CATALOG NUMBER: LDA2B208040D010 EU2B20WFL558040 2LBALPINSQ1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.1	16.5
10°-20°	641.6	36.6
20°-30°	518.1	29.6
30°-40°	204.8	11.7
40°-50°	62.9	3.6
50°-60°	16.2	0.9
60°-70°	9.8	0.6
70°-80°	7.2	0.4
80°-90°	2.1	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°	1447.8	82.7
0°-40°	1652.6	94.4
0°-60°	1731.7	98.9
0°-90°	1750.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1750.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3228	3228	3228	3228	3228	
5°	3119	3125	3126	3120	3112	289
15°	2328	2335	2350	2341	2325	640
25°	1061	1112	1196	1132	1082	494
35°	295	303	314	304	296	197
45°	75	76	78	77	76	61
55°	10	14	20	14	11	13
65°	9	10	10	10	9	10
75°	7	7	7	7	7	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P284070

CATALOG NUMBER: LDA2B208040D010 EU2B20WFL558040 2LBALPINSQ1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3227.9	3227.9	3227.9	3227.9	3227.9
2.5°	3187.5	3189.4	3192.2	3188.5	3179.1
5°	3119.0	3124.6	3126.5	3119.9	3112.4
7.5°	3006.3	2999.8	3005.4	2994.1	2984.7
10°	2822.3	2813.9	2811.0	2794.1	2794.1
12.5°	2595.1	2592.3	2594.2	2585.7	2572.6
15°	2328.5	2335.0	2350.0	2340.7	2324.7
17.5°	2045.8	2055.2	2068.4	2065.6	2044.0
20°	1732.3	1759.5	1778.3	1760.4	1729.4
22.5°	1375.5	1433.7	1481.6	1444.0	1393.3
25°	1060.9	1111.6	1196.1	1132.3	1081.6
27.5°	804.6	841.2	918.2	855.3	820.6
30°	589.6	612.2	665.7	624.4	600.0
32.5°	421.6	437.5	460.1	435.6	423.4
35°	294.8	303.3	313.6	304.2	295.8
37.5°	207.5	210.3	217.8	210.3	206.6
40°	145.5	146.5	152.1	147.4	145.5
42.5°	105.2	105.2	108.0	106.1	105.2
45°	75.1	76.1	77.9	77.0	76.1
47.5°	53.5	55.4	55.4	56.3	52.6
50°	31.9	39.4	40.4	39.4	31.9
52.5°	16.9	23.5	29.1	23.5	16.9
55°	10.3	14.1	19.7	14.1	11.3
57.5°	10.3	10.3	13.1	11.3	10.3
60°	10.3	10.3	10.3	10.3	10.3
62.5°	10.3	10.3	10.3	10.3	10.3
65°	9.4	10.3	10.3	10.3	9.4
67.5°	9.4	9.4	9.4	9.4	9.4
70°	9.4	9.4	8.5	9.4	9.4
72.5°	8.5	8.5	7.5	8.5	8.5
75°	6.6	6.6	6.6	6.6	6.6
77.5°	5.6	5.6	5.6	5.6	5.6
80°	4.7	4.7	3.8	4.7	4.7
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







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







(END OF REPORT)