

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: P284101

Luminaire Tested: **LDA2B209035D010 EU2B20WFL559035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284101  
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: LDA2B209035D010 EU2B20WFL559035 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1417.1 lumens  
Efficiency: N/A  
Efficacy: 68.8 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

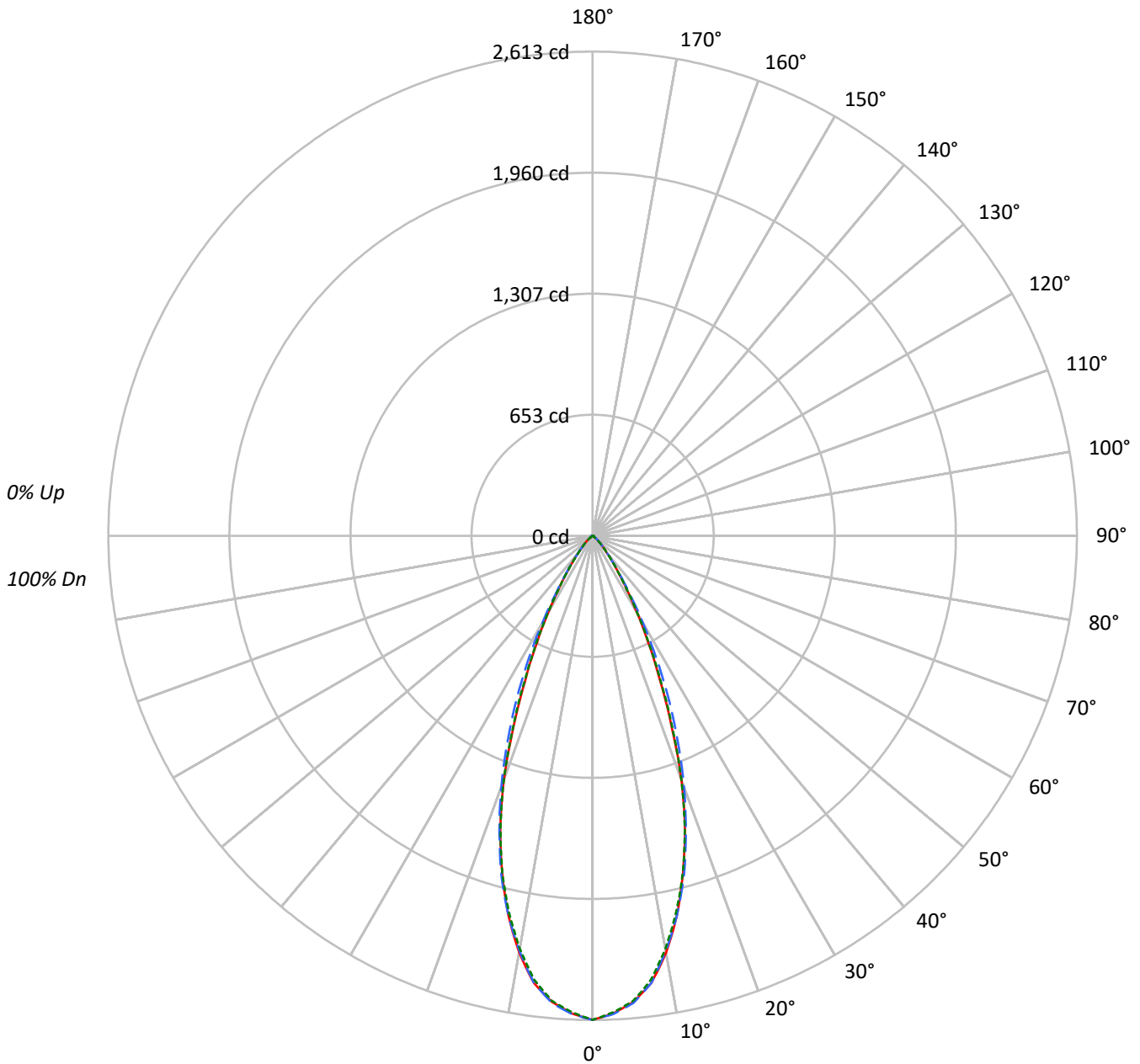
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1288957	1288957	1288957
5°	1250249	1253221	1247575
10°	1144372	1139813	1132950
15°	962589	971527	961057
20°	736137	755668	734930
25°	467446	526999	476537
30°	271854	306946	276639
35°	143705	152860	144187
40°	75868	79281	75868
45°	42421	44026	42979
50°	19802	25098	19802
55°	7225	13762	7827
60°	8288	8288	8288
65°	8872	9806	8872
70°	10963	9809	10963
75°	10103	10103	10103
80°	10796	8523	10796
85°	8491	8491	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.2	16.5
10°-20°	519.3	36.6
20°-30°	419.4	29.6
30°-40°	165.7	11.7
40°-50°	50.9	3.6
50°-60°	13.1	0.9
60°-70°	8.0	0.6
70°-80°	5.8	0.4
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°	1171.8	82.7
0°-40°	1337.6	94.4
0°-60°	1401.6	98.9
0°-90°	1417.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2613	2613	2613	2613	2613	
5°	2524	2529	2530	2525	2519	234
15°	1885	1890	1902	1894	1882	518
25°	859	900	968	916	875	400
35°	239	246	254	246	239	160
45°	61	62	63	62	62	50
55°	8	11	16	11	9	11
65°	8	8	8	8	8	8
75°	5	5	5	5	5	6
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°	2612.6	2612.6	2612.6	2612.6	2612.6
2.5°	2579.9	2581.4	2583.7	2580.7	2573.1
5°	2524.5	2529.0	2530.5	2525.2	2519.1
7.5°	2433.3	2427.9	2432.5	2423.4	2415.8
10°	2284.3	2277.5	2275.2	2261.5	2261.5
12.5°	2100.4	2098.1	2099.7	2092.8	2082.2
15°	1884.6	1889.9	1902.1	1894.5	1881.6
17.5°	1655.9	1663.5	1674.1	1671.8	1654.3
20°	1402.1	1424.1	1439.3	1424.8	1399.8
22.5°	1113.3	1160.4	1199.2	1168.8	1127.7
25°	858.7	899.7	968.1	916.5	875.4
27.5°	651.3	680.9	743.2	692.3	664.2
30°	477.2	495.5	538.8	505.3	485.6
32.5°	341.2	354.1	372.4	352.6	342.7
35°	238.6	245.5	253.8	246.2	239.4
37.5°	167.9	170.2	176.3	170.2	167.2
40°	117.8	118.5	123.1	119.3	117.8
42.5°	85.1	85.1	87.4	85.9	85.1
45°	60.8	61.6	63.1	62.3	61.6
47.5°	43.3	44.8	44.8	45.6	42.6
50°	25.8	31.9	32.7	31.9	25.8
52.5°	13.7	19.0	23.6	19.0	13.7
55°	8.4	11.4	16.0	11.4	9.1
57.5°	8.4	8.4	10.6	9.1	8.4
60°	8.4	8.4	8.4	8.4	8.4
62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.6	8.4	8.4	8.4	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.8	7.6	7.6
72.5°	6.8	6.8	6.1	6.8	6.8
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.8	3.8	3.0	3.8	3.8
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)