

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: P283740

Luminaire Tested: **LDA2B208050D010 EU2B20FL408050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283740
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: LDA2B208050D010 EU2B20FL408050 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1675.3 lumens
Efficiency: N/A
Efficacy: 81.3 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

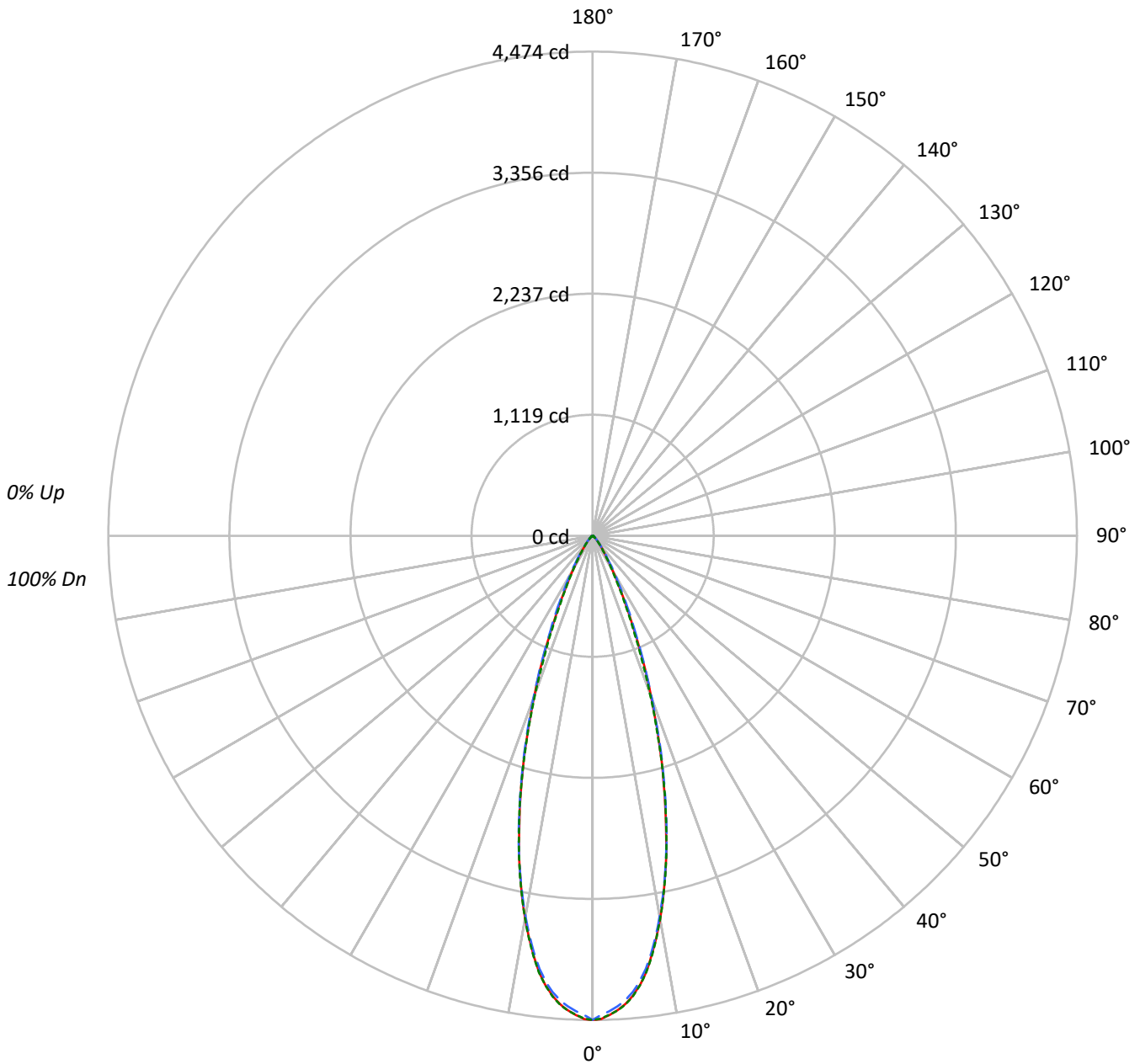
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2207251	2207251	2207251
5°	2112325	2096526	2115593
10°	1799644	1788322	1801498
15°	1326407	1335039	1330749
20°	828016	843347	809798
25°	427762	458954	406259
30°	205087	235052	195459
35°	105881	117204	99076
40°	59316	62343	56289
45°	36072	36072	34746
50°	18728	23103	18728
55°	9720	15397	10494
60°	11150	11150	11150
65°	12024	12024	12024
70°	14858	13559	14858
75°	14297	14297	14297
80°	13353	13353	13353
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	23.0
10°-20°	706.9	42.2
20°-30°	383.2	22.9
30°-40°	123.0	7.3
40°-50°	41.9	2.5
50°-60°	14.7	0.9
60°-70°	10.7	0.6
70°-80°	7.8	0.5
80°-90°	2.2	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°	1474.9	88.0
0°-40°	1597.9	95.4
0°-60°	1654.6	98.8
0°-90°	1675.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4474	4474	4474	4474	4474	
5°	4265	4239	4233	4276	4272	386
15°	2597	2618	2614	2626	2605	704
25°	786	822	843	785	746	377
35°	176	183	195	177	164	118
45°	52	53	52	52	50	41
55°	11	14	18	14	12	12
65°	10	11	10	11	10	11
75°	8	8	8	8	8	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°	4473.9	4473.9	4473.9	4473.9	4473.9
1°	4466.4	4434.4	4429.7	4471.1	4461.7
2°	4430.7	4400.6	4395.9	4437.2	4428.8
3°	4391.2	4363.9	4354.5	4397.8	4392.1
4°	4338.5	4313.2	4304.7	4347.9	4343.2
5°	4265.2	4238.9	4233.3	4275.6	4271.8
6°	4175.0	4153.4	4143.0	4185.3	4177.8
7°	4062.2	4042.5	4031.2	4062.2	4066.0
8°	3915.6	3906.2	3893.0	3924.1	3924.1
9°	3759.6	3751.1	3737.0	3765.2	3765.2
10°	3592.3	3586.6	3569.7	3596.0	3596.0
11°	3409.0	3406.2	3394.0	3415.6	3415.6
12°	3216.3	3222.9	3211.6	3230.4	3223.8
13°	3023.6	3020.8	3021.8	3035.9	3025.5
14°	2805.6	2822.5	2825.3	2833.8	2817.8
15°	2596.9	2618.5	2613.8	2626.1	2605.4
16°	2383.6	2408.0	2407.1	2409.9	2390.1
17°	2184.3	2198.4	2199.3	2196.5	2172.1
18°	1971.9	1991.6	1991.6	1986.9	1957.8
19°	1764.2	1779.2	1789.6	1779.2	1745.4
20°	1577.1	1587.5	1606.3	1580.0	1542.4
21°	1397.6	1407.0	1423.0	1392.0	1350.6
22°	1225.6	1237.8	1252.9	1217.2	1173.9
23°	1064.9	1093.1	1098.7	1049.9	1013.2
24°	917.3	949.3	958.7	908.9	870.3
25°	785.8	821.5	843.1	784.8	746.3
26°	672.0	706.8	733.1	674.8	638.2
27°	572.4	609.1	636.3	581.8	547.0
28°	486.9	522.6	550.8	500.0	467.1
29°	423.0	443.6	471.8	429.5	399.5
30°	360.0	382.5	412.6	369.4	343.1
32.5°	247.2	259.4	282.9	256.6	235.9
35°	175.8	183.3	194.6	176.7	164.5
37.5°	125.0	128.8	135.3	125.0	118.4
40°	92.1	94.0	96.8	91.2	87.4
42.5°	68.6	69.6	69.6	67.7	65.8
45°	51.7	52.6	51.7	51.7	49.8
47.5°	37.6	40.4	39.5	39.5	36.7
50°	24.4	30.1	30.1	29.1	24.4
52.5°	15.0	20.7	23.5	20.7	16.0
55°	11.3	14.1	17.9	14.1	12.2
57.5°	11.3	11.3	13.2	11.3	11.3
60°	11.3	11.3	11.3	11.3	11.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.3	10.3	10.3	10.3	10.3
70°	10.3	10.3	9.4	10.3	10.3
72.5°	9.4	9.4	8.5	9.4	8.5
75°	7.5	7.5	7.5	7.5	7.5
77.5°	5.6	5.6	5.6	5.6	5.6
80°	4.7	4.7	4.7	4.7	4.7
82.5°	2.8	2.8	2.8	3.8	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



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







62.5°	11.3	11.3	11.3	11.3	11.3
65°	10.3	11.3	10.3	11.3	10.3



(END OF REPORT)