

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: P284073

Luminaire Tested: **LDA2B208050D010 EU2B20WFL558050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284073
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: LDA2B208050D010 EU2B20WFL558050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1873.8 lumens
Efficiency: N/A
Efficacy: 91.0 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

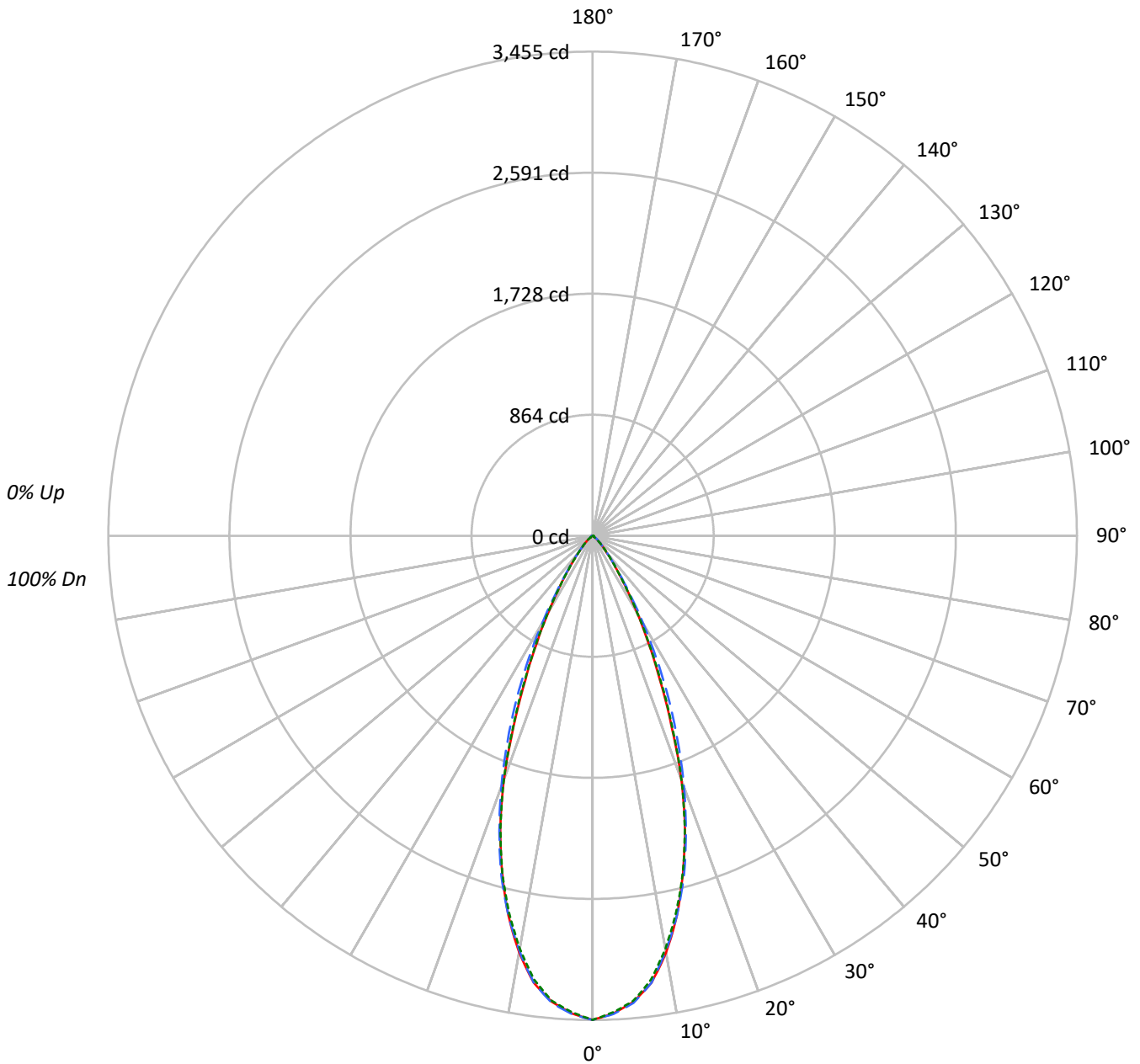
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1704417	1704417	1704417
5°	1653231	1657193	1649715
10°	1513238	1507226	1498159
15°	1272879	1284678	1270785
20°	973396	999227	971821
25°	618126	696895	630156
30°	359528	405844	365795
35°	190020	202126	190623
40°	100341	104849	100341
45°	56097	58190	56794
50°	26250	33157	26250
55°	9548	18149	10408
60°	10953	10953	10953
65°	11674	12958	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°	308.4	16.5
10°-20°	686.6	36.6
20°-30°	554.5	29.6
30°-40°	219.2	11.7
40°-50°	67.3	3.6
50°-60°	17.4	0.9
60°-70°	10.5	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°	1549.5	82.7
0°-40°	1768.7	94.4
0°-60°	1853.4	98.9
0°-90°	1873.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3455	3455	3455	3455	3455	
5°	3338	3344	3346	3339	3331	309
15°	2492	2499	2515	2505	2488	684
25°	1136	1190	1280	1212	1158	529
35°	316	325	336	326	316	211
45°	80	81	83	82	81	66
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°	3454.7	3454.7	3454.7	3454.7	3454.7
2.5°	3411.5	3413.5	3416.5	3412.5	3402.5
5°	3338.2	3344.2	3346.2	3339.2	3331.1
7.5°	3217.6	3210.5	3216.6	3204.5	3194.5
10°	3020.6	3011.6	3008.6	2990.5	2990.5
12.5°	2777.4	2774.4	2776.4	2767.4	2753.3
15°	2492.1	2499.1	2515.2	2505.1	2488.0
17.5°	2189.6	2199.6	2213.7	2210.7	2187.6
20°	1854.0	1883.1	1903.2	1884.1	1851.0
22.5°	1472.1	1534.4	1585.7	1545.5	1491.2
25°	1135.5	1189.8	1280.2	1211.9	1157.6
27.5°	861.2	900.4	982.8	915.4	878.3
30°	631.1	655.2	712.4	668.2	642.1
32.5°	451.2	468.3	492.4	466.3	453.2
35°	315.5	324.6	335.6	325.6	316.5
37.5°	222.1	225.1	233.1	225.1	221.1
40°	155.8	156.8	162.8	157.8	155.8
42.5°	112.5	112.5	115.6	113.5	112.5
45°	80.4	81.4	83.4	82.4	81.4
47.5°	57.3	59.3	59.3	60.3	56.3
50°	34.2	42.2	43.2	42.2	34.2
52.5°	18.1	25.1	31.2	25.1	18.1
55°	11.1	15.1	21.1	15.1	12.1
57.5°	11.1	11.1	14.1	12.1	11.1
60°	11.1	11.1	11.1	11.1	11.1
62.5°	11.1	11.1	11.1	11.1	11.1
65°	10.0	11.1	11.1	11.1	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)