

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: P282392

Luminaire Tested: **LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1920.4 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

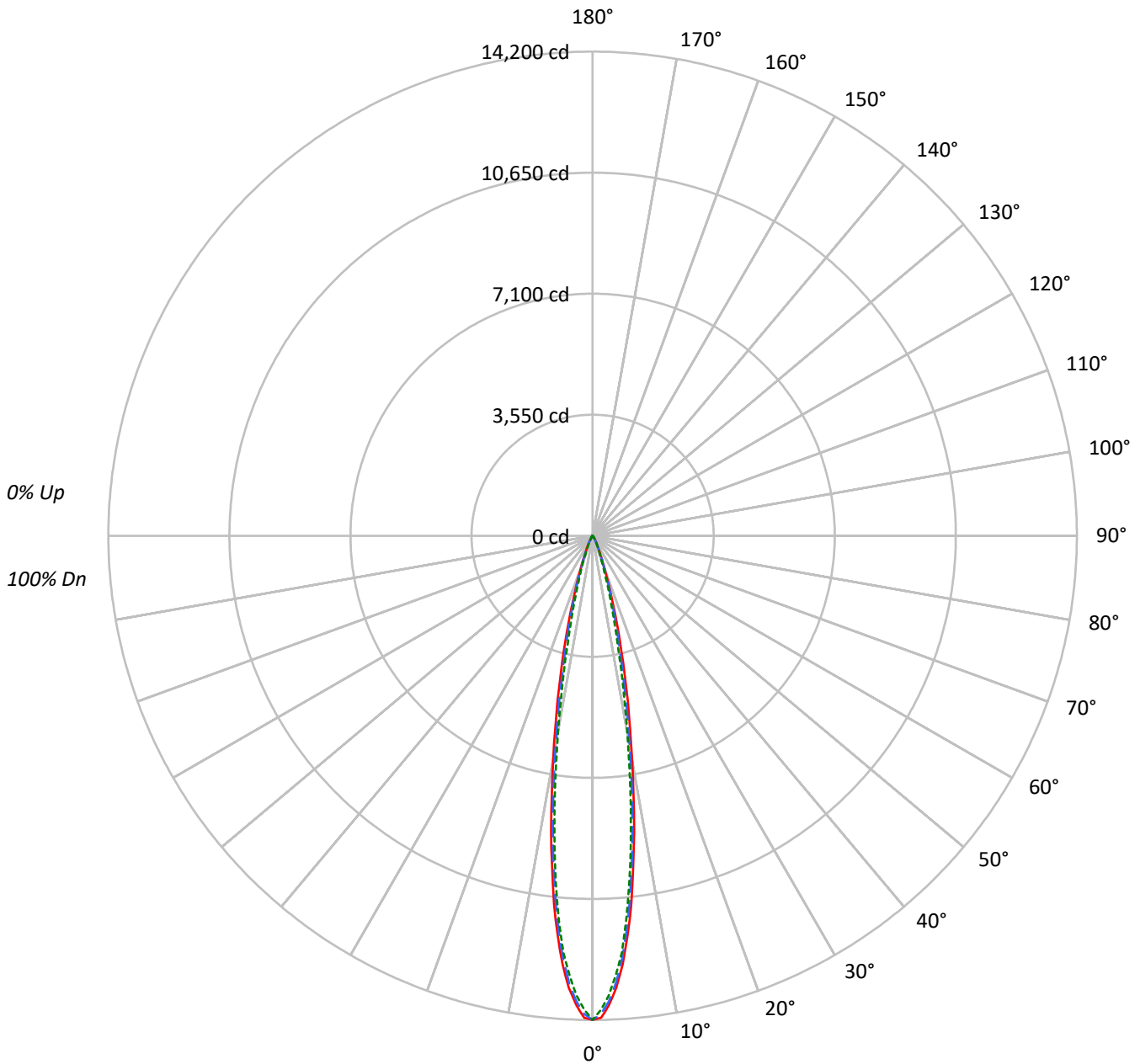
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282392

CATALOG NUMBER: LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P282392

CATALOG NUMBER: LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MW

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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7005688	7005688	7005688
5°	5829446	5722572	5607080
10°	3339083	3133334	2924278
15°	1485153	1319001	1105297
20°	538780	506544	401329
25°	206859	193141	166358
30°	89213	83003	73603
35°	42220	42220	34932
40°	21189	21897	17647
45°	12210	11443	10675
50°	8443	7599	7599
55°	6623	4731	5677
60°	5427	3256	4342
65°	3852	2568	3852
70°	3173	1587	3173
75°	2097	2097	2097
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282392

CATALOG NUMBER: LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.6	48.1
10°-20°	747.4	38.9
20°-30°	180.2	9.4
30°-40°	45.9	2.4
40°-50°	13.7	0.7
50°-60°	5.9	0.3
60°-70°	2.8	0.1
70°-80°	0.9	0.0
80°-90°	0.0	0.0
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°	1851.2	96.4
0°-40°	1897.1	98.8
0°-60°	1916.7	99.8
0°-90°	1920.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14200	14200	14200	14200	14200	
5°	11771	11662	11555	11454	11322	952
15°	2908	2839	2582	2326	2164	829
25°	380	382	355	322	306	196
35°	70	71	70	64	58	48
45°	18	18	16	15	15	15
55°	8	7	6	6	7	7
65°	3	3	2	2	3	4
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282392

CATALOG NUMBER: LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14199.9	14199.9	14199.9	14199.9	14199.9
1°	14136.3	14037.8	14025.7	14087.1	13906.4
2°	13774.9	13704.8	13664.3	13700.5	13495.7
3°	13278.8	13210.9	13137.6	13138.7	12909.8
4°	12603.1	12549.5	12425.7	12388.5	12256.0
5°	11770.8	11662.4	11555.0	11454.3	11321.8
6°	10850.9	10710.7	10557.4	10407.3	10271.5
7°	9768.8	9675.8	9473.1	9268.4	9153.4
8°	8751.4	8601.4	8364.8	8108.6	8011.1
9°	7657.4	7550.0	7278.4	6980.6	6883.1
10°	6665.2	6553.4	6254.5	5922.6	5837.2
11°	5734.3	5629.1	5318.1	4969.8	4878.9
12°	4946.8	4797.9	4440.9	4138.6	4049.9
13°	4162.7	4060.9	3722.5	3423.5	3251.5
14°	3495.8	3411.4	3104.8	2841.9	2660.1
15°	2907.7	2838.7	2582.4	2326.1	2164.0
16°	2385.3	2342.6	2139.9	1892.4	1759.9
17°	1935.2	1895.7	1766.5	1538.7	1427.0
18°	1562.8	1557.3	1450.0	1252.9	1153.2
19°	1285.7	1283.5	1185.0	1019.6	937.5
20°	1026.2	1040.4	964.8	820.3	764.4
21°	836.7	844.4	784.1	674.6	624.2
22°	681.2	686.7	647.2	557.4	530.1
23°	558.5	561.8	529.0	462.2	438.1
24°	460.0	462.2	432.6	385.5	364.7
25°	380.0	382.2	354.8	322.0	305.6
26°	315.4	317.6	293.5	270.5	254.1
27°	261.7	266.1	242.0	227.8	210.3
28°	223.4	224.5	202.6	193.8	177.4
29°	182.9	189.5	170.8	163.2	151.1
30°	156.6	159.9	145.7	140.2	129.2
32.5°	104.0	106.2	99.7	95.3	86.5
35°	70.1	71.2	70.1	63.5	58.0
37.5°	48.2	48.2	49.3	41.6	39.4
40°	32.9	32.9	34.0	28.5	27.4
42.5°	24.1	24.1	23.0	19.7	19.7
45°	17.5	17.5	16.4	15.3	15.3
47.5°	14.2	13.1	12.0	12.0	12.0
50°	11.0	11.0	9.9	8.8	9.9
52.5°	8.8	8.8	7.7	7.7	7.7
55°	7.7	6.6	5.5	5.5	6.6
57.5°	5.5	5.5	4.4	4.4	5.5
60°	5.5	4.4	3.3	4.4	4.4



TEST NUMBER: P282392

CATALOG NUMBER: LDA2B208050D010 EU2B20NFL258050 2LBAPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.3	2.2	2.2	2.2	2.2
70°	2.2	2.2	1.1	1.1	2.2
72.5°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.0	0.0	1.1
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	4.4	3.3	3.3	3.3	3.3
65°	3.3	3.3	2.2	2.2	3.3



(END OF REPORT)