

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: P283733

Luminaire Tested: **LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283733
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: LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

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): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

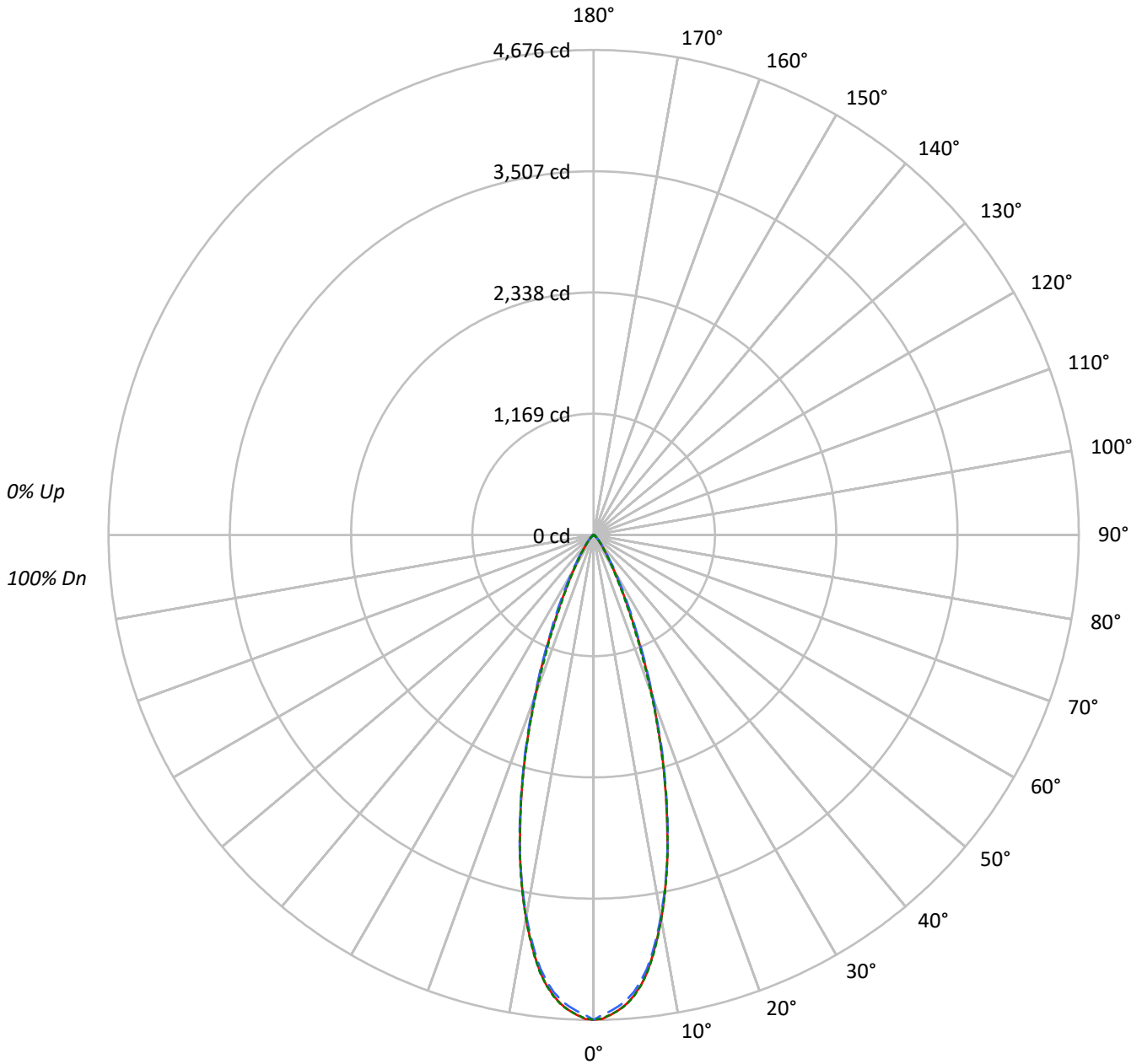
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283733

CATALOG NUMBER: LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283733

CATALOG NUMBER: LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MW

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°	2306762	2306762	2306762
5°	2207561	2191019	2210978
10°	1880752	1868979	1882756
15°	1386218	1395259	1390713
20°	865346	881359	846287
25°	447032	479640	424550
30°	214316	245648	204232
35°	110639	122444	103533
40°	62021	65177	58865
45°	37677	37677	36351
50°	19572	24101	19572
55°	10150	16085	11010
60°	11643	11643	11643
65°	12608	12608	12608
70°	15579	14136	15579
75°	15059	15059	15059
80°	13922	13922	13922
85°	11321	11321	11321



TEST NUMBER: P283733

CATALOG NUMBER: LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.2	23.0
10°-20°	738.7	42.2
20°-30°	400.5	22.9
30°-40°	128.6	7.3
40°-50°	43.8	2.5
50°-60°	15.4	0.9
60°-70°	11.2	0.6
70°-80°	8.2	0.5
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°	1541.4	88.0
0°-40°	1669.9	95.4
0°-60°	1729.1	98.8
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°	4676	4676	4676	4676	4676	
5°	4458	4430	4424	4468	4464	403
15°	2714	2737	2732	2744	2723	736
25°	821	858	881	820	780	394
35°	184	192	203	185	172	124
45°	54	55	54	54	52	43
55°	12	15	19	15	13	13
65°	11	12	11	12	11	11
75°	8	8	8	8	8	8
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P283733

CATALOG NUMBER: LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4675.6	4675.6	4675.6	4675.6	4675.6
1°	4667.7	4634.3	4629.4	4672.6	4662.8
2°	4630.4	4599.0	4594.1	4637.3	4628.4
3°	4589.2	4560.7	4550.8	4596.0	4590.1
4°	4534.1	4507.6	4498.8	4544.0	4539.1
5°	4457.5	4430.0	4424.1	4468.3	4464.4
6°	4363.2	4340.6	4329.8	4374.0	4366.2
7°	4245.4	4224.7	4212.9	4245.4	4249.3
8°	4092.1	4082.3	4068.6	4101.0	4101.0
9°	3929.1	3920.2	3905.5	3935.0	3935.0
10°	3754.2	3748.3	3730.7	3758.2	3758.2
11°	3562.7	3559.7	3547.0	3569.6	3569.6
12°	3361.3	3368.2	3356.4	3376.1	3369.2
13°	3160.0	3157.0	3158.0	3172.7	3161.9
14°	2932.1	2949.8	2952.7	2961.5	2944.8
15°	2714.0	2736.6	2731.7	2744.5	2722.8
16°	2491.0	2516.6	2515.6	2518.5	2497.9
17°	2282.8	2297.5	2298.5	2295.6	2270.0
18°	2060.8	2081.4	2081.4	2076.5	2046.1
19°	1843.7	1859.4	1870.2	1859.4	1824.1
20°	1648.2	1659.1	1678.7	1651.2	1611.9
21°	1460.6	1470.5	1487.2	1454.7	1411.5
22°	1280.9	1293.6	1309.4	1272.0	1226.9
23°	1112.9	1142.4	1148.3	1097.2	1058.9
24°	958.7	992.1	1001.9	949.9	909.6
25°	821.2	858.5	881.1	820.2	779.9
26°	702.3	738.7	766.2	705.3	667.0
27°	598.2	636.5	665.0	608.0	571.7
28°	508.8	546.1	575.6	522.6	488.2
29°	442.0	463.6	493.1	448.9	417.5
30°	376.2	399.8	431.2	386.0	358.5
32.5°	258.3	271.1	295.7	268.2	246.5
35°	183.7	191.5	203.3	184.7	171.9
37.5°	130.6	134.6	141.4	130.6	123.8
40°	96.3	98.2	101.2	95.3	91.4
42.5°	71.7	72.7	72.7	70.7	68.8
45°	54.0	55.0	54.0	54.0	52.1
47.5°	39.3	42.2	41.3	41.3	38.3
50°	25.5	31.4	31.4	30.5	25.5
52.5°	15.7	21.6	24.6	21.6	16.7
55°	11.8	14.7	18.7	14.7	12.8
57.5°	11.8	11.8	13.8	11.8	11.8
60°	11.8	11.8	11.8	11.8	11.8



TEST NUMBER: P283733

CATALOG NUMBER: LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.8	10.8	10.8	10.8	10.8
70°	10.8	10.8	9.8	10.8	10.8
72.5°	9.8	9.8	8.8	9.8	8.8
75°	7.9	7.9	7.9	7.9	7.9
77.5°	5.9	5.9	5.9	5.9	5.9
80°	4.9	4.9	4.9	4.9	4.9
82.5°	2.9	2.9	2.9	3.9	2.9
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



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	11.8	11.8	11.8	11.8	11.8
65°	10.8	11.8	10.8	11.8	10.8



(END OF REPORT)