

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: P283761

Luminaire Tested: **LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283761
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: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1428.6 lumens
Efficiency: N/A
Efficacy: 69.3 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

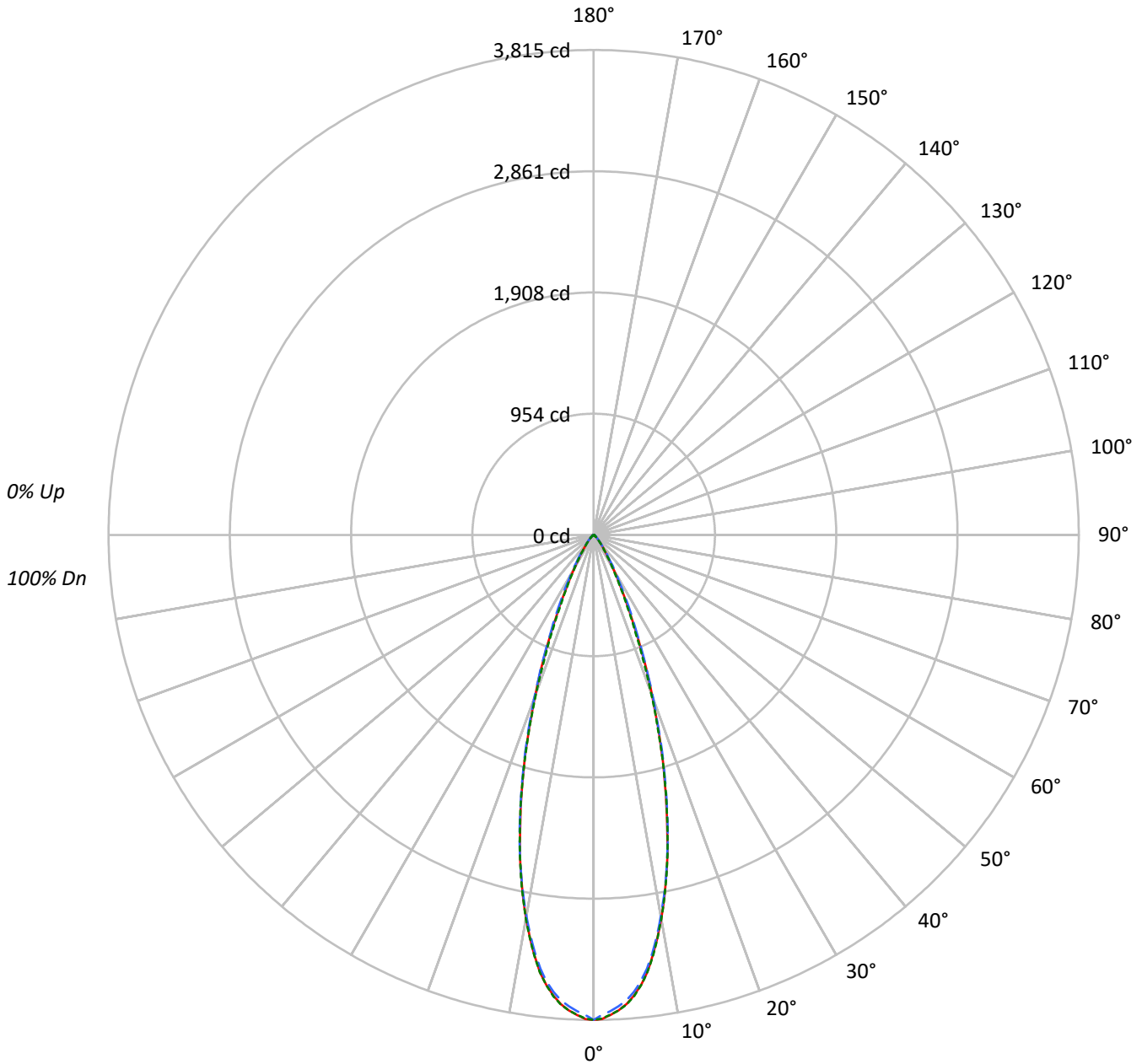
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283761

CATALOG NUMBER: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P283761

CATALOG NUMBER: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1882323	1882323	1882323
5°	1801360	1787889	1804182
10°	1534730	1525061	1536333
15°	1131142	1138548	1134819
20°	706158	719179	690565
25°	364779	391398	346434
30°	174893	200472	166690
35°	90282	99919	84500
40°	50621	53198	47981
45°	30769	30769	29653
50°	15965	19649	15965
55°	8257	13074	8946
60°	9473	9473	9473
65°	10273	10273	10273
70°	12694	11540	12694
75°	12200	12200	12200
80°	11365	11365	11365
85°	9057	9057	9057



TEST NUMBER: P283761

CATALOG NUMBER: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	23.0
10°-20°	602.8	42.2
20°-30°	326.8	22.9
30°-40°	104.9	7.3
40°-50°	35.8	2.5
50°-60°	12.5	0.9
60°-70°	9.1	0.6
70°-80°	6.6	0.5
80°-90°	1.9	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°	1257.8	88.0
0°-40°	1362.7	95.4
0°-60°	1410.9	98.8
0°-90°	1428.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3815	3815	3815	3815	3815	
5°	3637	3615	3610	3646	3643	329
15°	2215	2233	2229	2240	2222	600
25°	670	700	719	669	636	321
35°	150	156	166	151	140	101
45°	44	45	44	44	42	35
55°	10	12	15	12	10	11
65°	9	10	9	10	9	9
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P283761

CATALOG NUMBER: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3815.3	3815.3	3815.3	3815.3	3815.3
1°	3808.9	3781.6	3777.6	3812.9	3804.9
2°	3778.4	3752.8	3748.8	3784.0	3776.8
3°	3744.8	3721.5	3713.5	3750.4	3745.6
4°	3699.9	3678.2	3671.0	3707.9	3703.9
5°	3637.3	3614.9	3610.1	3646.2	3643.0
6°	3560.4	3542.0	3533.1	3569.2	3562.8
7°	3464.2	3447.4	3437.8	3464.2	3467.4
8°	3339.2	3331.2	3319.9	3346.4	3346.4
9°	3206.1	3198.9	3186.9	3210.9	3210.9
10°	3063.5	3058.6	3044.2	3066.7	3066.7
11°	2907.2	2904.7	2894.3	2912.8	2912.8
12°	2742.8	2748.4	2738.8	2754.9	2749.3
13°	2578.5	2576.1	2576.9	2588.9	2580.1
14°	2392.6	2407.0	2409.4	2416.6	2403.0
15°	2214.6	2233.1	2229.1	2239.5	2221.8
16°	2032.7	2053.5	2052.7	2055.1	2038.3
17°	1862.8	1874.8	1875.6	1873.2	1852.3
18°	1681.6	1698.4	1698.4	1694.4	1669.6
19°	1504.5	1517.3	1526.1	1517.3	1488.4
20°	1345.0	1353.8	1369.8	1347.4	1315.3
21°	1191.9	1199.9	1213.5	1187.1	1151.8
22°	1045.2	1055.6	1068.4	1038.0	1001.1
23°	908.1	932.2	937.0	895.3	864.1
24°	782.3	809.5	817.6	775.1	742.2
25°	670.1	700.5	719.0	669.3	636.4
26°	573.1	602.8	625.2	575.5	544.2
27°	488.1	519.4	542.6	496.1	466.5
28°	415.2	445.7	469.7	426.4	398.4
29°	360.7	378.3	402.4	366.3	340.7
30°	307.0	326.2	351.9	315.0	292.6
32.5°	210.8	221.2	241.3	218.8	201.2
35°	149.9	156.3	165.9	150.7	140.3
37.5°	106.6	109.8	115.4	106.6	101.0
40°	78.6	80.2	82.6	77.7	74.5
42.5°	58.5	59.3	59.3	57.7	56.1
45°	44.1	44.9	44.1	44.1	42.5
47.5°	32.1	34.5	33.7	33.7	31.3
50°	20.8	25.6	25.6	24.8	20.8
52.5°	12.8	17.6	20.0	17.6	13.6
55°	9.6	12.0	15.2	12.0	10.4
57.5°	9.6	9.6	11.2	9.6	9.6
60°	9.6	9.6	9.6	9.6	9.6



TEST NUMBER: P283761

CATALOG NUMBER: LDA2B209035D010 EU2B20FL409035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.8	8.8	8.8	8.8	8.8
70°	8.8	8.8	8.0	8.8	8.8
72.5°	8.0	8.0	7.2	8.0	7.2
75°	6.4	6.4	6.4	6.4	6.4
77.5°	4.8	4.8	4.8	4.8	4.8
80°	4.0	4.0	4.0	4.0	4.0
82.5°	2.4	2.4	2.4	3.2	2.4
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	9.6	9.6	9.6	9.6	9.6
65°	8.8	9.6	8.8	9.6	8.8



(END OF REPORT)