

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: P283754

Luminaire Tested: **LDA2B209030D010 EU2B20FL409030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283754
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: LDA2B209030D010 EU2B20FL409030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1421.7 lumens
Efficiency: N/A
Efficacy: 69.0 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

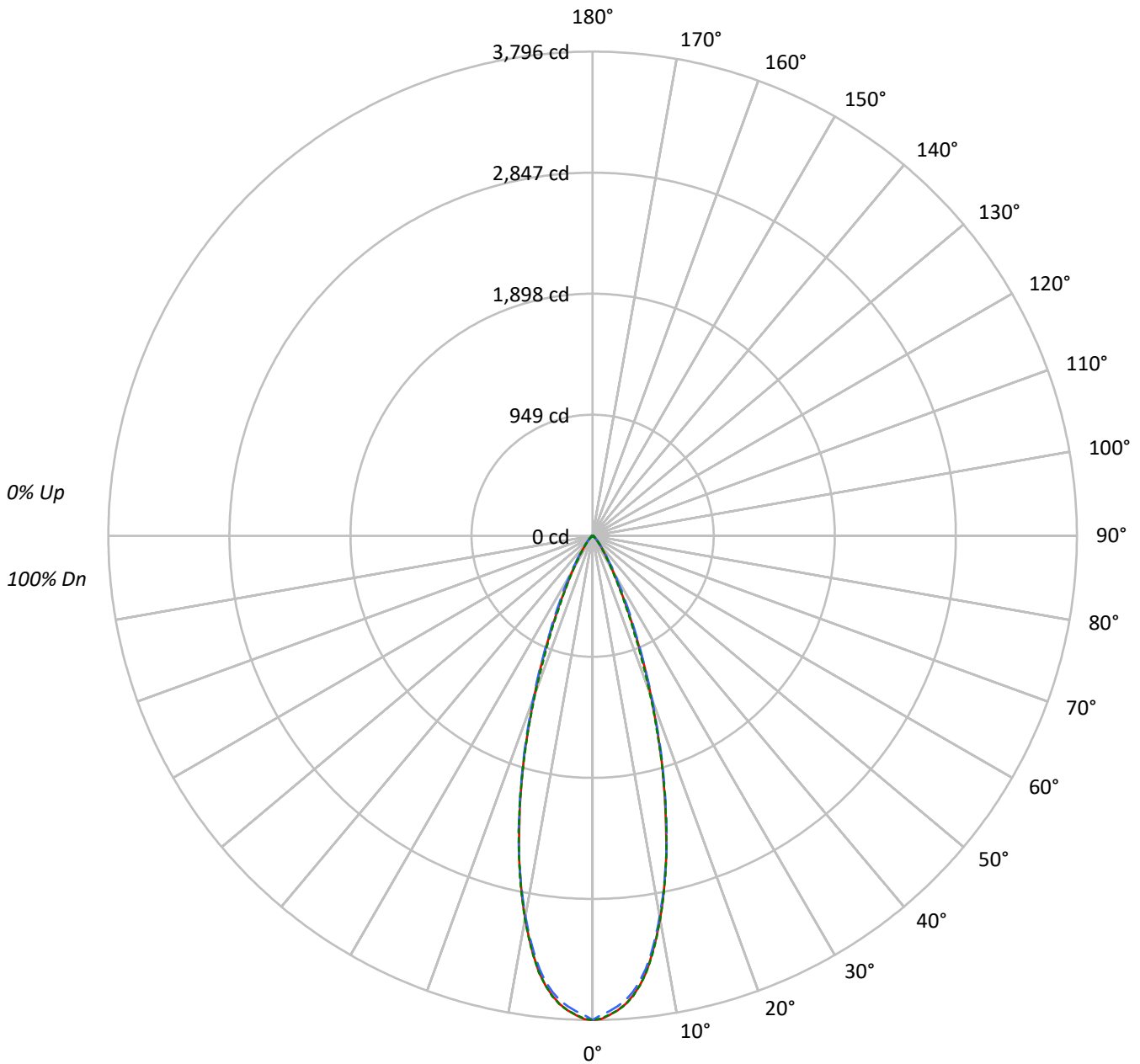
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1873048	1873048	1873048
5°	1792495	1779073	1795268
10°	1527115	1517546	1528718
15°	1125574	1132929	1129252
20°	702640	715661	687152
25°	362982	389438	344746
30°	174039	199447	165835
35°	89800	99437	84079
40°	50364	52940	47788
45°	30630	30630	29514
50°	15888	19572	15888
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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	23.0
10°-20°	599.8	42.2
20°-30°	325.2	22.9
30°-40°	104.4	7.3
40°-50°	35.6	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°	1251.6	88.0
0°-40°	1356.0	95.4
0°-60°	1404.0	98.8
0°-90°	1421.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3796	3796	3796	3796	3796	
5°	3619	3597	3592	3628	3625	327
15°	2204	2222	2218	2228	2211	597
25°	667	697	715	666	633	320
35°	149	156	165	150	140	100
45°	44	45	44	44	42	35
55°	10	12	15	12	10	10
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3796.5	3796.5	3796.5	3796.5	3796.5
1°	3790.1	3763.0	3759.0	3794.1	3786.1
2°	3759.8	3734.3	3730.3	3765.4	3758.2
3°	3726.3	3703.1	3695.2	3731.9	3727.1
4°	3681.6	3660.1	3652.9	3689.6	3685.6
5°	3619.4	3597.1	3592.3	3628.2	3625.0
6°	3542.8	3524.5	3515.7	3551.6	3545.2
7°	3447.1	3430.4	3420.8	3447.1	3450.3
8°	3322.7	3314.7	3303.6	3329.9	3329.9
9°	3190.3	3183.1	3171.2	3195.1	3195.1
10°	3048.3	3043.6	3029.2	3051.5	3051.5
11°	2892.8	2890.4	2880.0	2898.4	2898.4
12°	2729.3	2734.9	2725.3	2741.3	2735.7
13°	2565.8	2563.4	2564.2	2576.2	2567.4
14°	2380.8	2395.1	2397.5	2404.7	2391.1
15°	2203.7	2222.0	2218.1	2228.4	2210.9
16°	2022.7	2043.4	2042.6	2045.0	2028.2
17°	1853.6	1865.5	1866.3	1863.9	1843.2
18°	1673.3	1690.1	1690.1	1686.1	1661.4
19°	1497.1	1509.8	1518.6	1509.8	1481.1
20°	1338.3	1347.1	1363.1	1340.7	1308.8
21°	1186.0	1194.0	1207.5	1181.2	1146.1
22°	1040.0	1050.4	1063.2	1032.9	996.2
23°	903.7	927.6	932.4	890.9	859.8
24°	778.4	805.6	813.5	771.3	738.6
25°	666.8	697.1	715.4	666.0	633.3
26°	570.3	599.8	622.1	572.7	541.6
27°	485.7	516.8	540.0	493.7	464.2
28°	413.1	443.5	467.4	424.3	396.4
29°	358.9	376.5	400.4	364.5	339.0
30°	305.5	324.6	350.1	313.4	291.1
32.5°	209.8	220.1	240.1	217.7	200.2
35°	149.1	155.5	165.1	149.9	139.6
37.5°	106.1	109.3	114.9	106.1	100.5
40°	78.2	79.8	82.2	77.4	74.2
42.5°	58.2	59.0	59.0	57.4	55.8
45°	43.9	44.7	43.9	43.9	42.3
47.5°	31.9	34.3	33.5	33.5	31.1
50°	20.7	25.5	25.5	24.7	20.7
52.5°	12.8	17.5	19.9	17.5	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



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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



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— 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)