

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: P283758

Luminaire Tested: **LDA2B209030D010 EU2B20FL409030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283758
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1292.4 lumens
Efficiency: N/A
Efficacy: 62.7 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

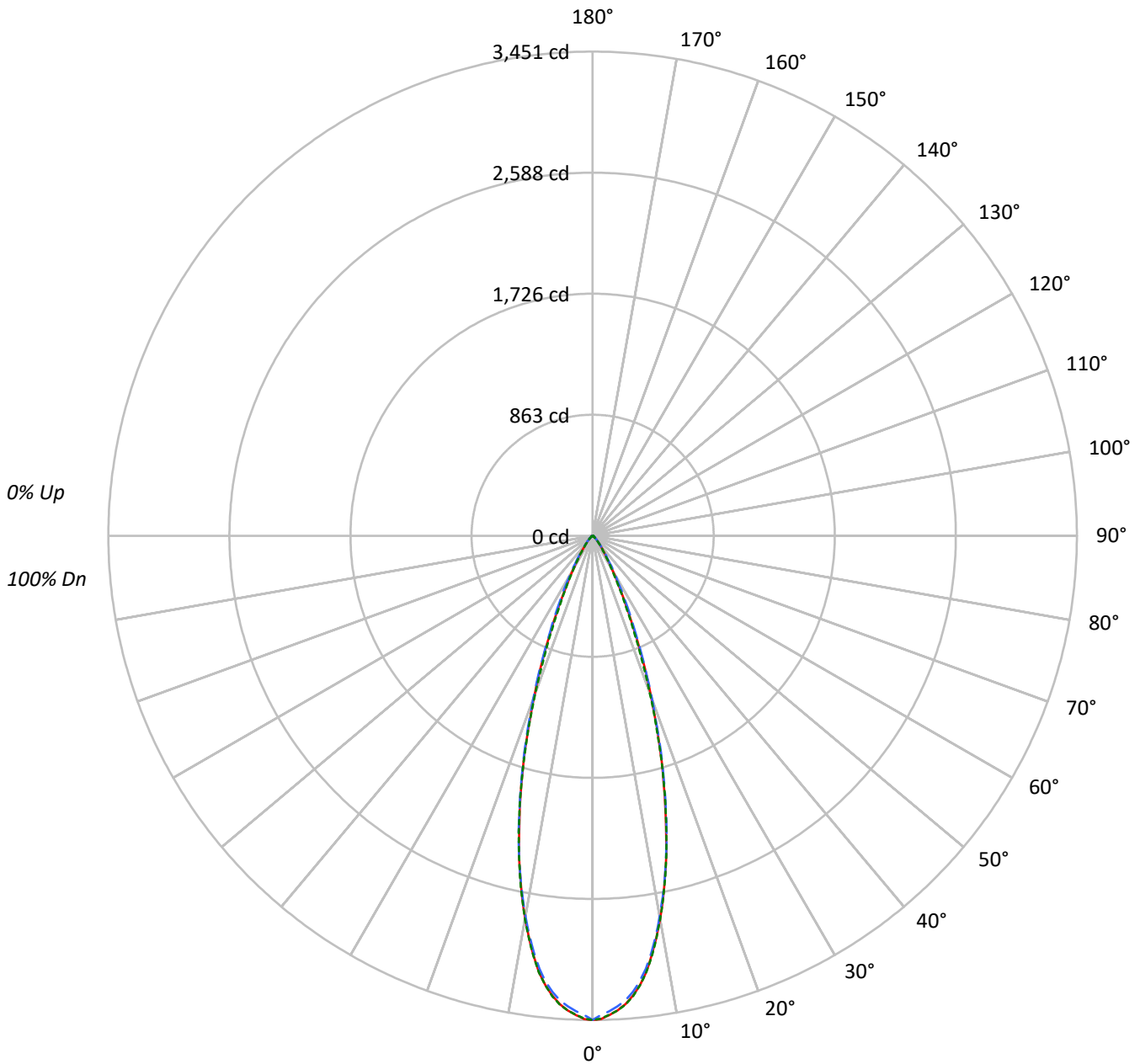
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1702740	1702740	1702740
5°	1629559	1617326	1632035
10°	1388296	1379579	1389748
15°	1023268	1029908	1026588
20°	638797	650558	624674
25°	329994	354055	313391
30°	158202	181331	150796
35°	81670	90403	76430
40°	45791	48110	43408
45°	27839	27839	26792
50°	14506	17807	14506
55°	7483	11870	8085
60°	8584	8584	8584
65°	9339	9339	9339
70°	11540	10530	11540
75°	11056	11056	11056
80°	10228	10228	10228
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	23.0
10°-20°	545.3	42.2
20°-30°	295.6	22.9
30°-40°	94.9	7.3
40°-50°	32.4	2.5
50°-60°	11.3	0.9
60°-70°	8.3	0.6
70°-80°	6.0	0.5
80°-90°	1.7	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°	1137.8	88.0
0°-40°	1232.7	95.4
0°-60°	1276.4	98.8
0°-90°	1292.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1292.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3451	3451	3451	3451	3451	
5°	3290	3270	3266	3298	3295	298
15°	2003	2020	2016	2026	2010	543
25°	606	634	650	605	576	291
35°	136	141	150	136	127	91
45°	40	41	40	40	38	32
55°	9	11	14	11	9	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
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°	3451.3	3451.3	3451.3	3451.3	3451.3
1°	3445.5	3420.9	3417.3	3449.2	3441.9
2°	3418.0	3394.8	3391.2	3423.1	3416.5
3°	3387.5	3366.5	3359.2	3392.6	3388.3
4°	3346.9	3327.3	3320.8	3354.2	3350.5
5°	3290.4	3270.1	3265.7	3298.3	3295.4
6°	3220.8	3204.1	3196.1	3228.7	3222.9
7°	3133.8	3118.5	3109.8	3133.8	3136.7
8°	3020.6	3013.4	3003.2	3027.2	3027.2
9°	2900.3	2893.8	2882.9	2904.6	2904.6
10°	2771.2	2766.9	2753.8	2774.1	2774.1
11°	2629.8	2627.7	2618.2	2634.9	2634.9
12°	2481.2	2486.3	2477.6	2492.1	2487.0
13°	2332.5	2330.4	2331.1	2342.0	2334.0
14°	2164.3	2177.4	2179.6	2186.1	2173.8
15°	2003.4	2020.0	2016.4	2025.8	2009.9
16°	1838.8	1857.6	1856.9	1859.1	1843.9
17°	1685.1	1695.9	1696.7	1694.5	1675.6
18°	1521.2	1536.4	1536.4	1532.8	1510.3
19°	1361.0	1372.6	1380.5	1372.6	1346.5
20°	1216.7	1224.6	1239.1	1218.8	1189.8
21°	1078.2	1085.4	1097.8	1073.8	1041.9
22°	945.5	954.9	966.5	939.0	905.6
23°	821.5	843.3	847.6	809.9	781.6
24°	707.7	732.3	739.6	701.1	671.4
25°	606.2	633.7	650.4	605.4	575.7
26°	518.4	545.3	565.6	520.6	492.3
27°	441.6	469.8	490.9	448.8	422.0
28°	375.6	403.1	424.9	385.7	360.4
29°	326.3	342.2	364.0	331.4	308.2
30°	277.7	295.1	318.3	285.0	264.7
32.5°	190.7	200.1	218.2	197.9	182.0
35°	135.6	141.4	150.1	136.3	126.9
37.5°	96.4	99.3	104.4	96.4	91.4
40°	71.1	72.5	74.7	70.3	67.4
42.5°	52.9	53.7	53.7	52.2	50.8
45°	39.9	40.6	39.9	39.9	38.4
47.5°	29.0	31.2	30.5	30.5	28.3
50°	18.9	23.2	23.2	22.5	18.9
52.5°	11.6	16.0	18.1	16.0	12.3
55°	8.7	10.9	13.8	10.9	9.4
57.5°	8.7	8.7	10.2	8.7	8.7
60°	8.7	8.7	8.7	8.7	8.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.0	8.0	8.0	8.0	8.0
70°	8.0	8.0	7.3	8.0	8.0
72.5°	7.3	7.3	6.5	7.3	6.5
75°	5.8	5.8	5.8	5.8	5.8
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.6	3.6	3.6	3.6	3.6
82.5°	2.2	2.2	2.2	2.9	2.2
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.7	8.7	8.7	8.7	8.7
65°	8.0	8.7	8.0	8.7	8.0



(END OF REPORT)