

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: P283773

Luminaire Tested: **LDA2B209050D010 EU2B20FL409050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283773
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: LDA2B209050D010 EU2B20FL409050 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: 1499.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

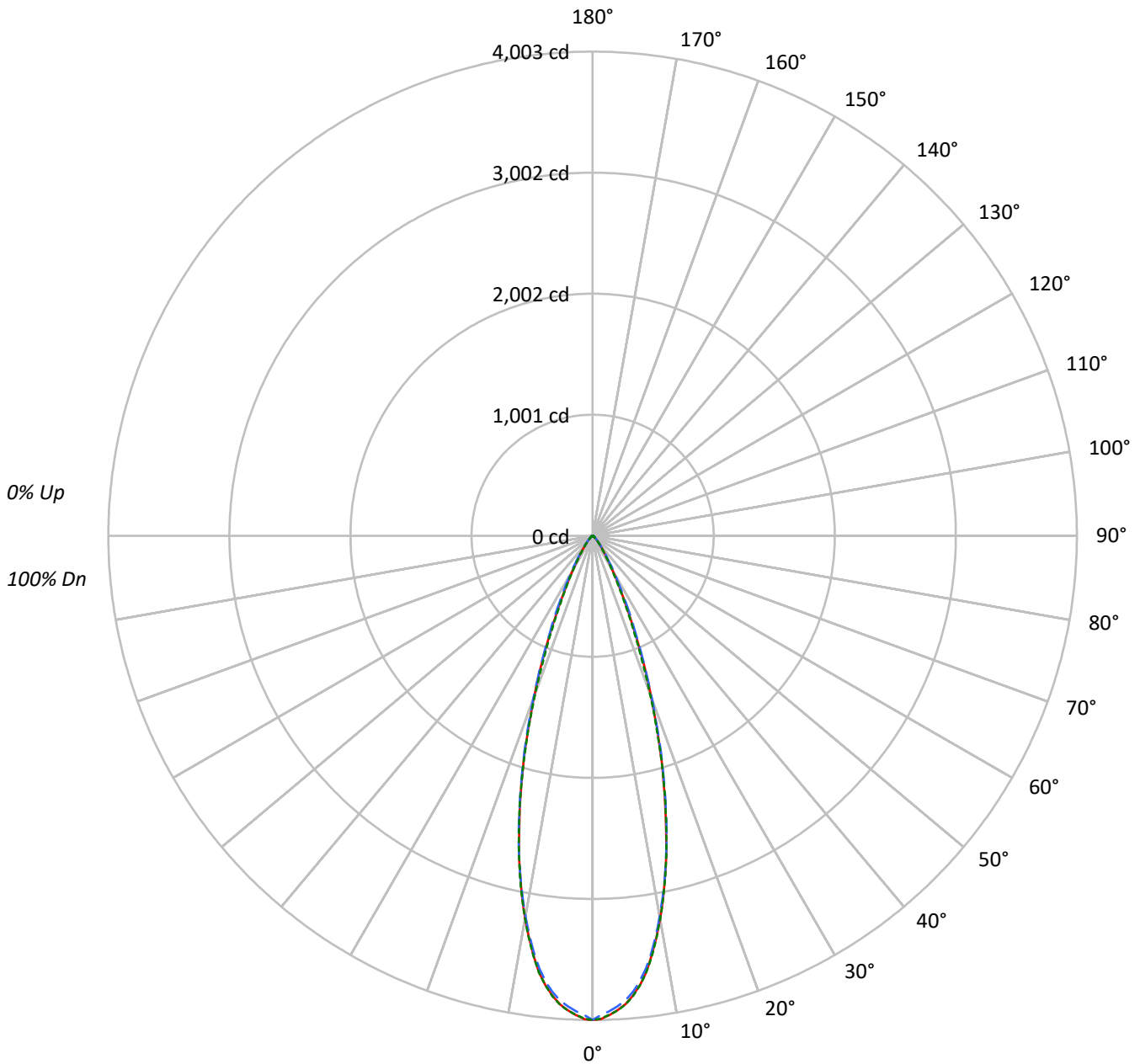
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1974927	1974927	1974927
5°	1890009	1875845	1892931
10°	1610226	1600107	1611880
15°	1186815	1194528	1190697
20°	740862	754565	724534
25°	382688	410614	363472
30°	183496	210328	174893
35°	94739	104858	88656
40°	53069	55774	50364
45°	32304	32304	31118
50°	16809	20647	16809
55°	8688	13762	9376
60°	9966	9966	9966
65°	10857	10857	10857
70°	13415	12117	13415
75°	12772	12772	12772
80°	11933	11933	11933
85°	9623	9623	9623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	23.0
10°-20°	632.5	42.2
20°-30°	342.9	22.9
30°-40°	110.1	7.3
40°-50°	37.5	2.5
50°-60°	13.1	0.9
60°-70°	9.6	0.6
70°-80°	7.0	0.5
80°-90°	2.0	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°	1319.7	88.0
0°-40°	1429.7	95.4
0°-60°	1480.4	98.8
0°-90°	1499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4003	4003	4003	4003	4003	
5°	3816	3793	3788	3826	3822	345
15°	2324	2343	2339	2350	2331	630
25°	703	735	754	702	668	337
35°	157	164	174	158	147	106
45°	46	47	46	46	45	37
55°	10	13	16	13	11	11
65°	9	10	9	10	9	10
75°	7	7	7	7	7	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°	4003.0	4003.0	4003.0	4003.0	4003.0
1°	3996.3	3967.7	3963.5	4000.5	3992.1
2°	3964.3	3937.4	3933.2	3970.2	3962.6
3°	3929.0	3904.6	3896.2	3934.9	3929.8
4°	3881.9	3859.2	3851.6	3890.3	3886.1
5°	3816.3	3792.8	3787.7	3825.6	3822.2
6°	3735.6	3716.2	3707.0	3744.8	3738.1
7°	3634.7	3617.0	3606.9	3634.7	3638.0
8°	3503.5	3495.1	3483.3	3511.0	3511.0
9°	3363.9	3356.3	3343.7	3368.9	3368.9
10°	3214.2	3209.1	3194.0	3217.5	3217.5
11°	3050.2	3047.7	3036.7	3056.1	3056.1
12°	2877.8	2883.7	2873.6	2890.4	2884.5
13°	2705.4	2702.9	2703.7	2716.3	2707.1
14°	2510.3	2525.4	2527.9	2535.5	2521.2
15°	2323.6	2342.9	2338.7	2349.7	2331.2
16°	2132.7	2154.6	2153.7	2156.2	2138.6
17°	1954.4	1967.0	1967.9	1965.3	1943.5
18°	1764.3	1782.0	1782.0	1777.8	1751.7
19°	1578.5	1592.0	1601.2	1592.0	1561.7
20°	1411.1	1420.4	1437.2	1413.7	1380.0
21°	1250.5	1258.9	1273.2	1245.5	1208.5
22°	1096.6	1107.6	1121.0	1089.1	1050.4
23°	952.8	978.0	983.1	939.4	906.6
24°	820.8	849.4	857.8	813.2	778.7
25°	703.0	735.0	754.3	702.2	667.7
26°	601.3	632.4	656.0	603.8	571.0
27°	512.1	544.9	569.3	520.6	489.4
28°	435.6	467.6	492.8	447.4	418.0
29°	378.4	396.9	422.2	384.3	357.4
30°	322.1	342.3	369.2	330.5	307.0
32.5°	221.2	232.1	253.1	229.6	211.1
35°	157.3	164.0	174.1	158.1	147.2
37.5°	111.8	115.2	121.1	111.8	106.0
40°	82.4	84.1	86.6	81.6	78.2
42.5°	61.4	62.2	62.2	60.5	58.9
45°	46.3	47.1	46.3	46.3	44.6
47.5°	33.6	36.2	35.3	35.3	32.8
50°	21.9	26.9	26.9	26.1	21.9
52.5°	13.5	18.5	21.0	18.5	14.3
55°	10.1	12.6	16.0	12.6	10.9
57.5°	10.1	10.1	11.8	10.1	10.1
60°	10.1	10.1	10.1	10.1	10.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	9.3	9.3	9.3	9.3	9.3
70°	9.3	9.3	8.4	9.3	9.3
72.5°	8.4	8.4	7.6	8.4	7.6
75°	6.7	6.7	6.7	6.7	6.7
77.5°	5.0	5.0	5.0	5.0	5.0
80°	4.2	4.2	4.2	4.2	4.2
82.5°	2.5	2.5	2.5	3.4	2.5
85°	1.7	1.7	1.7	1.7	1.7
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°	10.1	10.1	10.1	10.1	10.1
65°	9.3	10.1	9.3	10.1	9.3



(END OF REPORT)