

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: P284109

Luminaire Tested: **LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1574.5 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

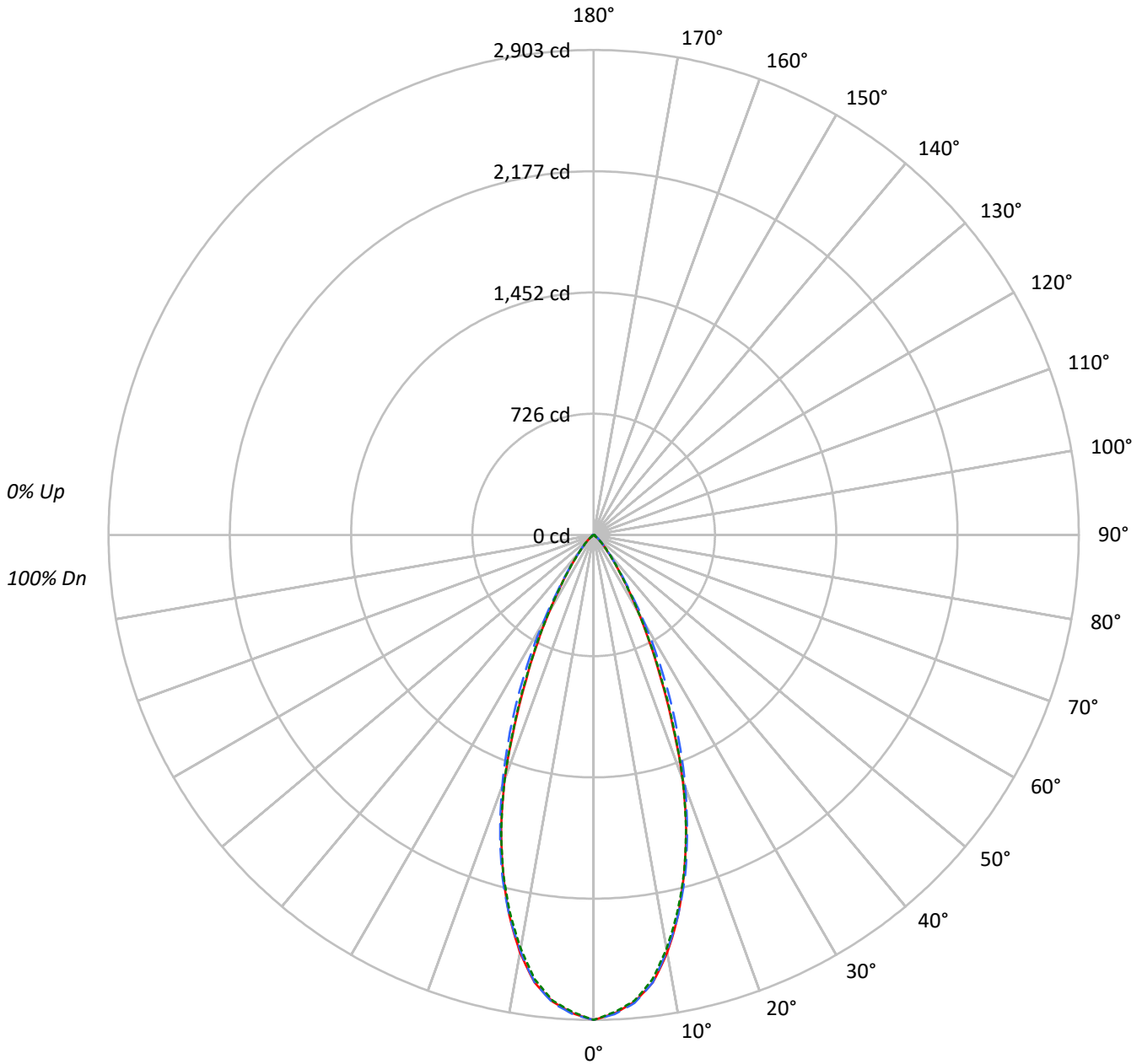
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1432229	1432229	1432229
5°	1389166	1392534	1386244
10°	1271569	1266509	1258894
15°	1069543	1079503	1067858
20°	817936	839619	816571
25°	519378	585573	529503
30°	302104	341070	307402
35°	159665	169844	160207
40°	84305	88104	84305
45°	47096	48910	47724
50°	22028	27862	22028
55°	7999	15225	8688
60°	9177	9177	9177
65°	9806	10857	9806
70°	12117	10963	12117
75°	11247	11247	11247
80°	11933	9660	11933
85°	9623	9623	9623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	16.5
10°-20°	577.0	36.6
20°-30°	466.0	29.6
30°-40°	184.2	11.7
40°-50°	56.5	3.6
50°-60°	14.6	0.9
60°-70°	8.8	0.6
70°-80°	6.5	0.4
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°	1302.1	82.7
0°-40°	1486.2	94.4
0°-60°	1557.3	98.9
0°-90°	1574.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2903	2903	2903	2903	2903	
5°	2805	2810	2812	2806	2799	260
15°	2094	2100	2114	2105	2091	575
25°	954	1000	1076	1018	973	444
35°	265	273	282	274	266	178
45°	68	68	70	69	68	55
55°	9	13	18	13	10	12
65°	8	9	9	9	8	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°	2903.0	2903.0	2903.0	2903.0	2903.0
2.5°	2866.6	2868.3	2870.9	2867.5	2859.0
5°	2805.0	2810.1	2811.8	2805.9	2799.1
7.5°	2703.7	2697.8	2702.8	2692.7	2684.3
10°	2538.2	2530.6	2528.1	2512.9	2512.9
12.5°	2333.8	2331.3	2333.0	2325.4	2313.6
15°	2094.0	2100.0	2113.5	2105.0	2090.7
17.5°	1839.9	1848.3	1860.2	1857.6	1838.2
20°	1557.9	1582.4	1599.2	1583.2	1555.3
22.5°	1237.0	1289.4	1332.4	1298.6	1253.0
25°	954.1	999.7	1075.7	1018.3	972.7
27.5°	723.6	756.6	825.8	769.2	738.0
30°	530.3	550.5	598.7	561.5	539.6
32.5°	379.1	393.5	413.7	391.8	380.8
35°	265.1	272.7	282.0	273.6	266.0
37.5°	186.6	189.1	195.9	189.1	185.8
40°	130.9	131.7	136.8	132.6	130.9
42.5°	94.6	94.6	97.1	95.4	94.6
45°	67.5	68.4	70.1	69.2	68.4
47.5°	48.1	49.8	49.8	50.7	47.3
50°	28.7	35.5	36.3	35.5	28.7
52.5°	15.2	21.1	26.2	21.1	15.2
55°	9.3	12.7	17.7	12.7	10.1
57.5°	9.3	9.3	11.8	10.1	9.3
60°	9.3	9.3	9.3	9.3	9.3
62.5°	9.3	9.3	9.3	9.3	9.3
65°	8.4	9.3	9.3	9.3	8.4
67.5°	8.4	8.4	8.4	8.4	8.4
70°	8.4	8.4	7.6	8.4	8.4
72.5°	7.6	7.6	6.8	7.6	7.6
75°	5.9	5.9	5.9	5.9	5.9
77.5°	5.1	5.1	5.1	5.1	5.1
80°	4.2	4.2	3.4	4.2	4.2
82.5°	2.5	2.5	2.5	2.5	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°







(END OF REPORT)