

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: P315856

Luminaire Tested: **LDA2B20WFL9050D010 PINW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315856
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: LDA2B20WFL9050D010 PINW1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj PinHole, Black oculus, matte white finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.9 lumens
Efficiency: N/A
Efficacy: 73.7 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

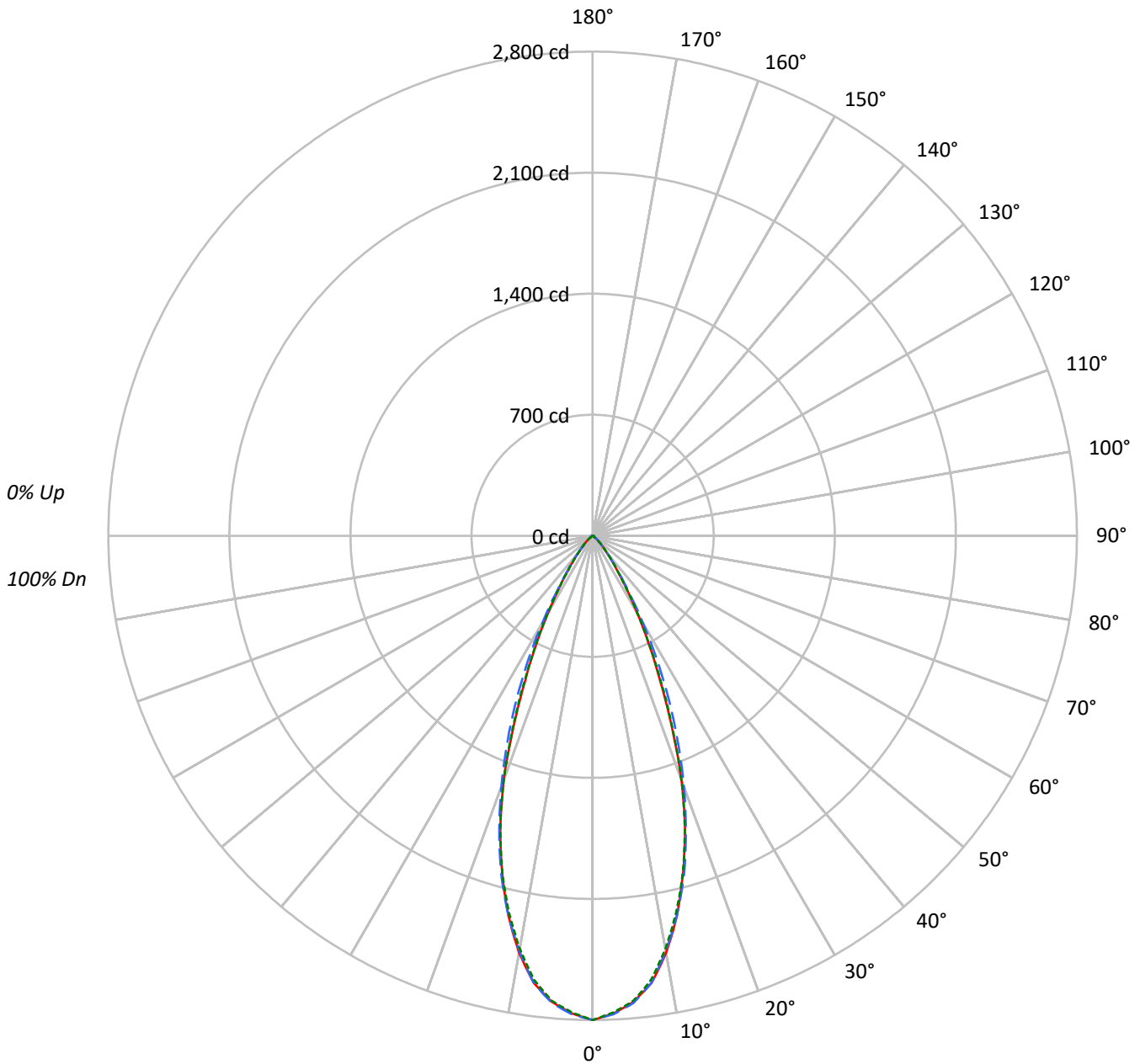
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	1381610	1381610	1381610
5°	1340087	1343306	1337264
10°	1226632	1221772	1214408
15°	1031798	1041349	1030112
20°	789007	810008	787747
25°	501033	564887	510832
30°	291394	328993	296521
35°	154064	163881	154546
40°	81342	85013	81342
45°	45491	47166	46049
50°	21261	26864	21261
55°	7741	14709	8429
60°	8881	8881	8881
65°	9456	10507	9456
70°	11684	10530	11684
75°	10865	10865	10865
80°	11649	9376	11649
85°	9057	9057	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	16.5
10°-20°	556.6	36.6
20°-30°	449.5	29.6
30°-40°	177.7	11.7
40°-50°	54.6	3.6
50°-60°	14.1	0.9
60°-70°	8.5	0.6
70°-80°	6.2	0.4
80°-90°	1.8	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°	1256.1	82.7
0°-40°	1433.7	94.4
0°-60°	1502.4	98.9
0°-90°	1518.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2800	2800	2800	2800	2800	
5°	2706	2711	2712	2707	2700	250
15°	2020	2026	2039	2031	2017	555
25°	920	964	1038	982	938	428
35°	256	263	272	264	257	171
45°	65	66	68	67	66	53
55°	9	12	17	12	10	11
65°	8	9	9	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°	2800.4	2800.4	2800.4	2800.4	2800.4
2.5°	2765.4	2767.0	2769.5	2766.2	2758.1
5°	2705.9	2710.8	2712.4	2706.7	2700.2
7.5°	2608.2	2602.5	2607.4	2597.6	2589.5
10°	2448.5	2441.2	2438.8	2424.1	2424.1
12.5°	2251.4	2249.0	2250.6	2243.3	2231.9
15°	2020.1	2025.8	2038.8	2030.7	2016.8
17.5°	1774.9	1783.0	1794.5	1792.0	1773.3
20°	1502.8	1526.5	1542.8	1527.3	1500.4
22.5°	1193.3	1243.8	1285.4	1252.8	1208.8
25°	920.4	964.4	1037.7	982.3	938.4
27.5°	698.1	729.8	796.6	742.1	711.9
30°	511.5	531.1	577.5	541.7	520.5
32.5°	365.7	379.6	399.1	378.0	367.4
35°	255.8	263.1	272.1	263.9	256.6
37.5°	180.0	182.5	189.0	182.5	179.2
40°	126.3	127.1	132.0	127.9	126.3
42.5°	91.2	91.2	93.7	92.0	91.2
45°	65.2	66.0	67.6	66.8	66.0
47.5°	46.4	48.1	48.1	48.9	45.6
50°	27.7	34.2	35.0	34.2	27.7
52.5°	14.7	20.4	25.3	20.4	14.7
55°	9.0	12.2	17.1	12.2	9.8
57.5°	9.0	9.0	11.4	9.8	9.0
60°	9.0	9.0	9.0	9.0	9.0
62.5°	9.0	9.0	9.0	9.0	9.0
65°	8.1	9.0	9.0	9.0	8.1
67.5°	8.1	8.1	8.1	8.1	8.1
70°	8.1	8.1	7.3	8.1	8.1
72.5°	7.3	7.3	6.5	7.3	7.3
75°	5.7	5.7	5.7	5.7	5.7
77.5°	4.9	4.9	4.9	4.9	4.9
80°	4.1	4.1	3.3	4.1	4.1
82.5°	2.4	2.4	2.4	2.4	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°







(END OF REPORT)