

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: P284084

Luminaire Tested: **LDA2B209027D010 EU2B20WFL559027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284084
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: LDA2B209027D010 EU2B20WFL559027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1426.1 lumens
Efficiency: N/A
Efficacy: 69.2 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

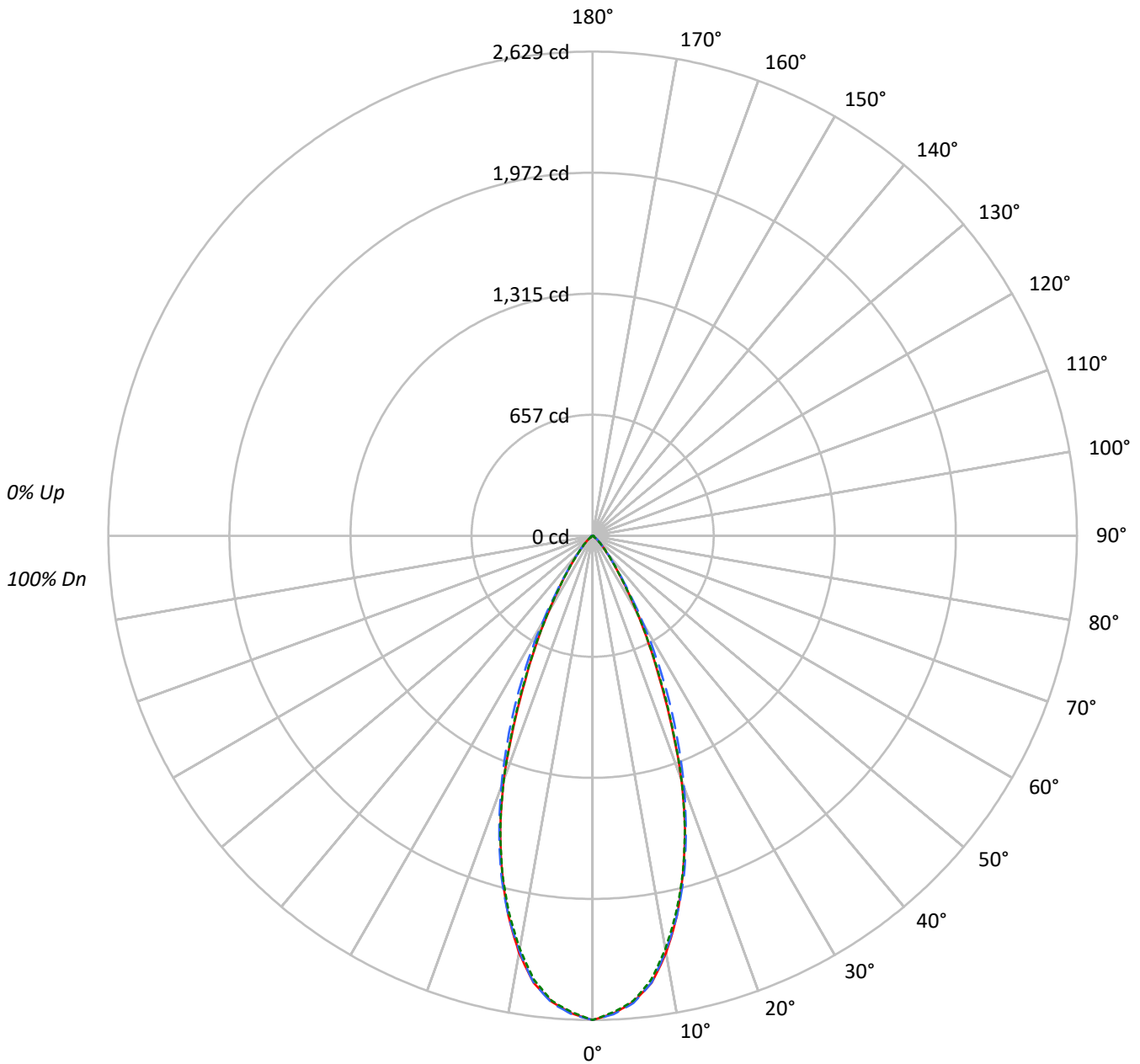
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1297147	1297147	1297147
5°	1258173	1261194	1255549
10°	1151686	1147077	1140164
15°	968718	977708	967135
20°	740810	760446	739602
25°	470440	530374	479585
30°	273620	308883	278405
35°	144608	153823	145090
40°	76319	79796	76319
45°	42700	44305	43189
50°	19956	25252	19956
55°	7225	13848	7913
60°	8288	8288	8288
65°	8872	9806	8872
70°	10963	9953	10963
75°	10293	10293	10293
80°	10796	8808	10796
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	16.5
10°-20°	522.6	36.6
20°-30°	422.0	29.6
30°-40°	166.8	11.7
40°-50°	51.2	3.6
50°-60°	13.2	0.9
60°-70°	8.0	0.6
70°-80°	5.9	0.4
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°	1179.3	82.7
0°-40°	1346.1	94.4
0°-60°	1410.5	98.9
0°-90°	1426.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1426.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2540	2545	2547	2541	2535	235
15°	1897	1902	1914	1906	1894	521
25°	864	906	974	922	881	402
35°	240	247	255	248	241	161
45°	61	62	64	63	62	50
55°	8	12	16	12	9	11
65°	8	8	8	8	8	8
75°	5	5	5	5	5	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°	2629.2	2629.2	2629.2	2629.2	2629.2
2.5°	2596.3	2597.9	2600.2	2597.1	2589.5
5°	2540.5	2545.1	2546.6	2541.3	2535.2
7.5°	2448.7	2443.4	2448.0	2438.8	2431.2
10°	2298.9	2292.0	2289.7	2275.9	2275.9
12.5°	2113.8	2111.5	2113.0	2106.1	2095.4
15°	1896.6	1901.9	1914.2	1906.5	1893.5
17.5°	1666.4	1674.0	1684.8	1682.5	1664.9
20°	1411.0	1433.2	1448.4	1433.9	1408.7
22.5°	1120.4	1167.8	1206.8	1176.2	1134.9
25°	864.2	905.5	974.3	922.3	881.0
27.5°	655.4	685.2	747.9	696.7	668.4
30°	480.3	498.6	542.2	508.6	488.7
32.5°	343.4	356.4	374.7	354.8	344.9
35°	240.1	247.0	255.4	247.8	240.9
37.5°	169.0	171.3	177.4	171.3	168.2
40°	118.5	119.3	123.9	120.1	118.5
42.5°	85.7	85.7	87.9	86.4	85.7
45°	61.2	61.9	63.5	62.7	61.9
47.5°	43.6	45.1	45.1	45.9	42.8
50°	26.0	32.1	32.9	32.1	26.0
52.5°	13.8	19.1	23.7	19.1	13.8
55°	8.4	11.5	16.1	11.5	9.2
57.5°	8.4	8.4	10.7	9.2	8.4
60°	8.4	8.4	8.4	8.4	8.4
62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.6	8.4	8.4	8.4	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.9	7.6	7.6
72.5°	6.9	6.9	6.1	6.9	6.9
75°	5.4	5.4	5.4	5.4	5.4
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.8	3.8	3.1	3.8	3.8
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.5	1.5	1.5	1.5	1.5
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)