

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: P284066

Luminaire Tested: **LDA2B208040D010 EU2B20WFL558040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284066
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: LDA2B208040D010 EU2B20WFL558040 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: 1941.3 lumens
Efficiency: N/A
Efficacy: 94.2 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

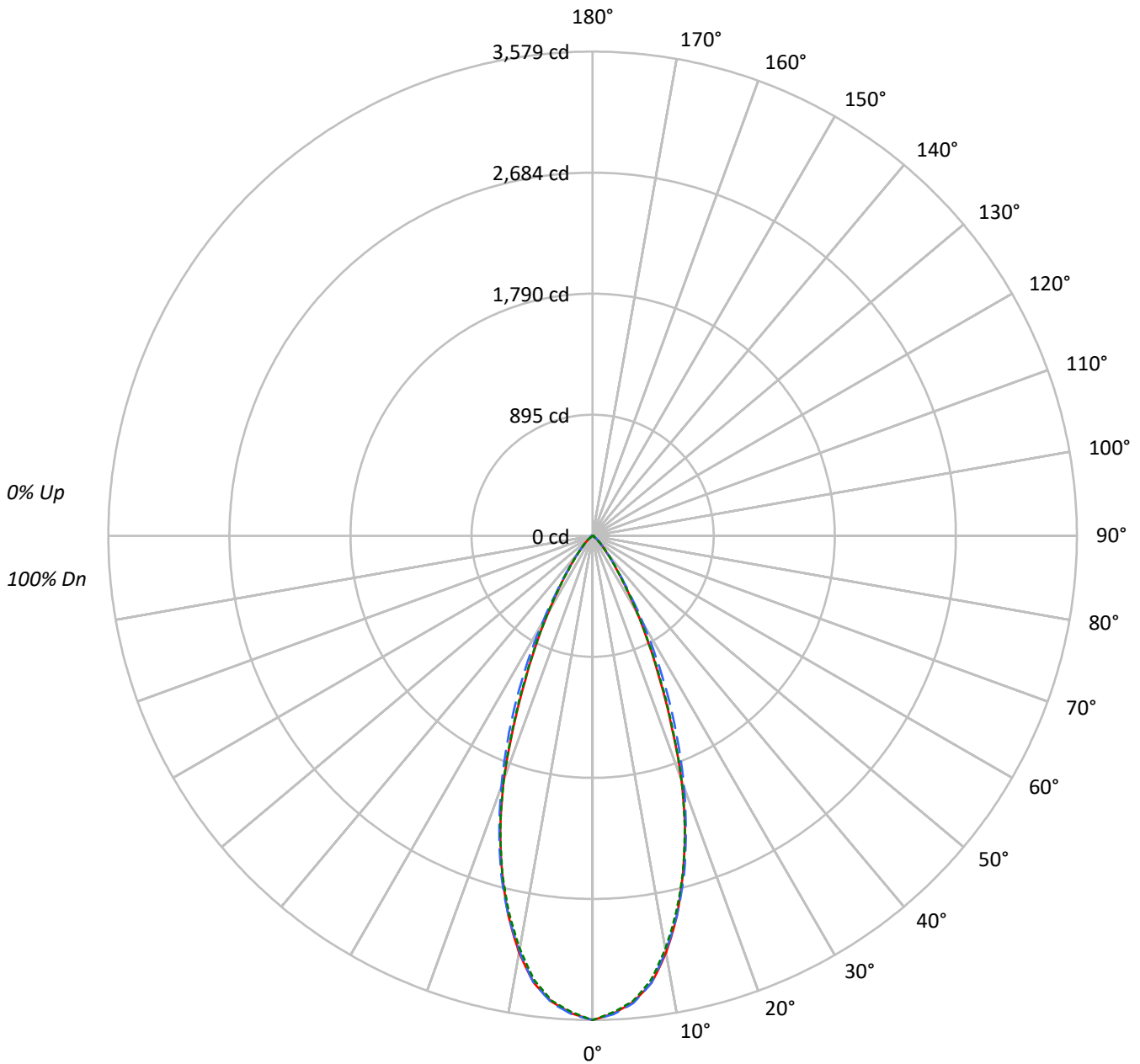
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	1765791	1765791	1765791
5°	1712710	1716871	1709145
10°	1567744	1561482	1552063
15°	1318695	1330902	1316550
20°	1008415	1035191	1006787
25°	640390	721991	652856
30°	372460	420485	378955
35°	196886	209414	197489
40°	103948	108585	103948
45°	58120	60283	58818
50°	27171	34386	27171
55°	9892	18837	10752
60°	11347	11347	11347
65°	12141	13425	12141
70°	15002	13559	15002
75°	13915	13915	13915
80°	14774	11933	14774
85°	11887	11887	11887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	16.5
10°-20°	711.4	36.6
20°-30°	574.5	29.6
30°-40°	227.1	11.7
40°-50°	69.7	3.6
50°-60°	18.0	0.9
60°-70°	10.9	0.6
70°-80°	8.0	0.4
80°-90°	2.4	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°	1605.3	82.7
0°-40°	1832.4	94.4
0°-60°	1920.1	98.9
0°-90°	1941.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3579	3579	3579	3579	3579	
5°	3458	3465	3467	3459	3451	320
15°	2582	2589	2606	2595	2578	709
25°	1176	1233	1326	1256	1199	548
35°	327	336	348	337	328	219
45°	83	84	86	85	84	68
55°	12	16	22	16	12	14
65°	10	12	12	12	10	11
75°	7	7	7	7	7	8
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°	3579.1	3579.1	3579.1	3579.1	3579.1
2.5°	3534.3	3536.4	3539.5	3535.4	3525.0
5°	3458.3	3464.6	3466.7	3459.4	3451.1
7.5°	3333.4	3326.1	3332.4	3319.9	3309.5
10°	3129.4	3120.0	3116.9	3098.1	3098.1
12.5°	2877.4	2874.3	2876.4	2867.0	2852.5
15°	2581.8	2589.1	2605.7	2595.3	2577.6
17.5°	2268.4	2278.8	2293.4	2290.3	2266.4
20°	1920.7	1950.9	1971.7	1952.0	1917.6
22.5°	1525.1	1589.7	1642.8	1601.1	1544.9
25°	1176.4	1232.6	1326.3	1255.5	1199.3
27.5°	892.2	932.8	1018.1	948.4	909.9
30°	653.8	678.8	738.1	692.3	665.2
32.5°	467.4	485.1	510.1	483.0	469.5
35°	326.9	336.3	347.7	337.3	327.9
37.5°	230.1	233.2	241.5	233.2	229.0
40°	161.4	162.4	168.6	163.4	161.4
42.5°	116.6	116.6	119.7	117.6	116.6
45°	83.3	84.3	86.4	85.4	84.3
47.5°	59.3	61.4	61.4	62.5	58.3
50°	35.4	43.7	44.8	43.7	35.4
52.5°	18.7	26.0	32.3	26.0	18.7
55°	11.5	15.6	21.9	15.6	12.5
57.5°	11.5	11.5	14.6	12.5	11.5
60°	11.5	11.5	11.5	11.5	11.5
62.5°	11.5	11.5	11.5	11.5	11.5
65°	10.4	11.5	11.5	11.5	10.4
67.5°	10.4	10.4	10.4	10.4	10.4
70°	10.4	10.4	9.4	10.4	10.4
72.5°	9.4	9.4	8.3	9.4	9.4
75°	7.3	7.3	7.3	7.3	7.3
77.5°	6.2	6.2	6.2	6.2	6.2
80°	5.2	5.2	4.2	5.2	5.2
82.5°	3.1	3.1	3.1	3.1	3.1
85°	2.1	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)