

Lumen Maintenance Test Report

Client : Oppla**Address** :**Description of the samples under test:**

Sample Name : OPPL-E27
Model : OP-22W-3000K
Ratings : 120mA, 1500lm, 85(Ra), 3000K
Manufacturer : Oppla
Sample Quantity : 8
Sample Tested Date : 2020-10-04 ~ 2021-05-12

Equipment list:

Test Equipments	Model/SN
Photometer _Colorimter	LMS-9000CG/201911002
Digital Power Meter	LS2012/202002005
Power Supply	LSP Series/201903001
Thermometer	TMP-8/202003005
Chamber	MV103/202003002

Lumen Maintenance Life Prediction(Based on TM-28-20)

Test Condition - 55°C Case Temp

Sample Name: OPPL-E27
 Model: OP-22W-3000K
 Ratings: 120mA, 1500lm, 85(Ra), 3000K
 Manufacturer: Oppl

Sample Quantity	8
Number Of Failures	0
DUT drive voltage used in the test (V/Hz)	220.1/50.02
Test duration (hours)	6000
Test duration used for projection (hour to hour)	1000 - 6000
Tested case temperature (°C)	55
a	1.608E-06
B	0.9587
Calculated L70(6k) (hours)	195610
Reported L70(6k) (hours)	>33000
Calculated L50(6k) (hours)	404902
Reported L50(6k) (hours)	>33000

Photon Flux Maintenance Life Prediction(Based on TM-28-20)

Test Condition - 55°C Case Temp

Sample Name: OPPL-E27
 Model: OP-22W-3000K
 Ratings: 120mA, 1500lm, 85(Ra), 3000K
 Manufacturer: Oppla

Sample Quantity	8
Number Of Failures	0
DUT drive voltage used in the test (V/Hz)	220.1/50.02
Test duration (hours)	6000
Test duration used for projection (hour to hour)	1000 - 6000
Tested case temperature (°C)	55
α	1.606E-06
B	0.9587
Calculated L70(6k) (hours)	195816
Reported L70(6k) (hours)	>33000
Calculated L50(6k) (hours)	405328
Reported L50(6k) (hours)	>33000

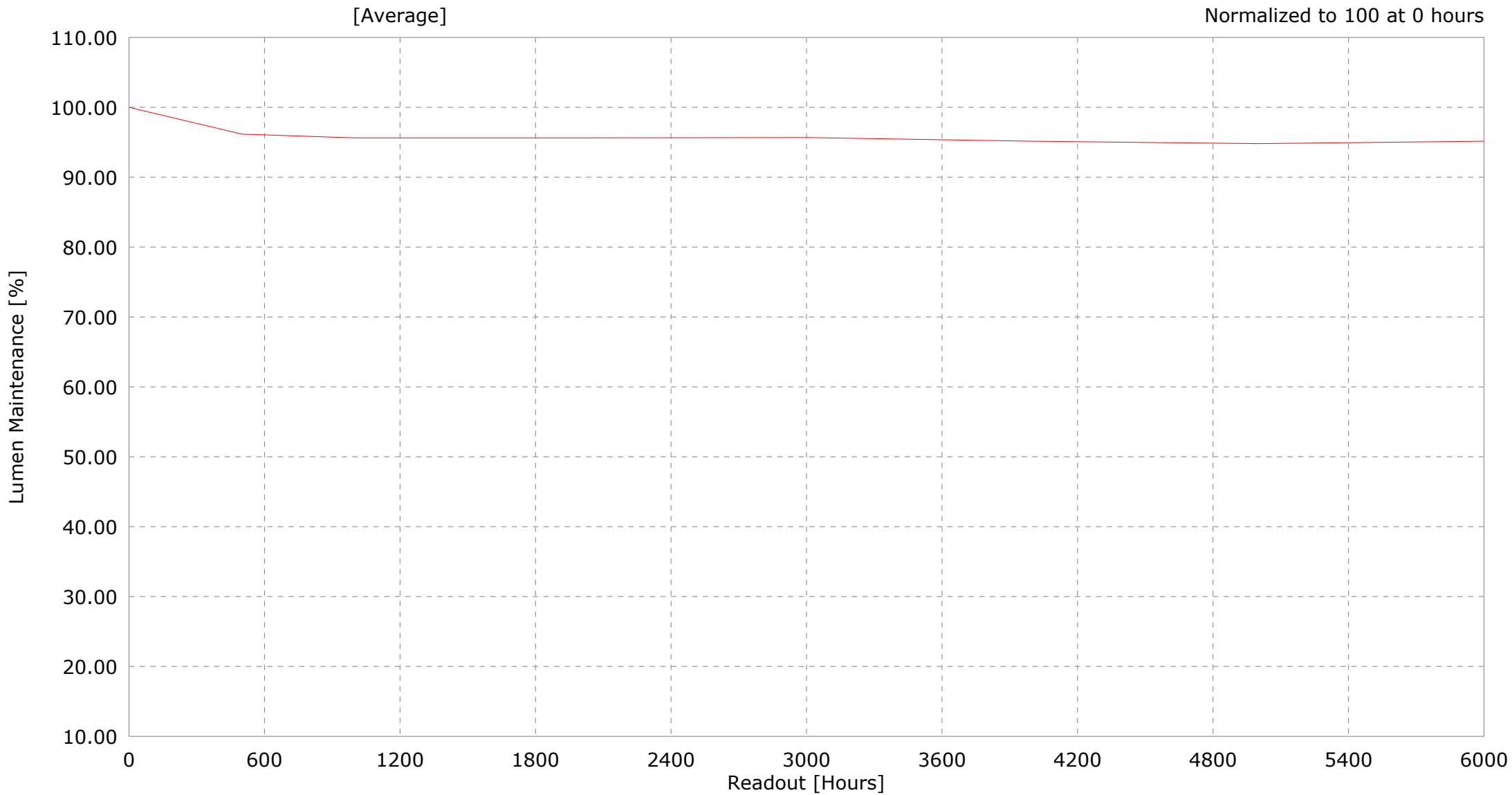
Radiant Flux Maintenance Life Prediction(Based on TM-28-20)

Test Condition - 55°C Case Temp

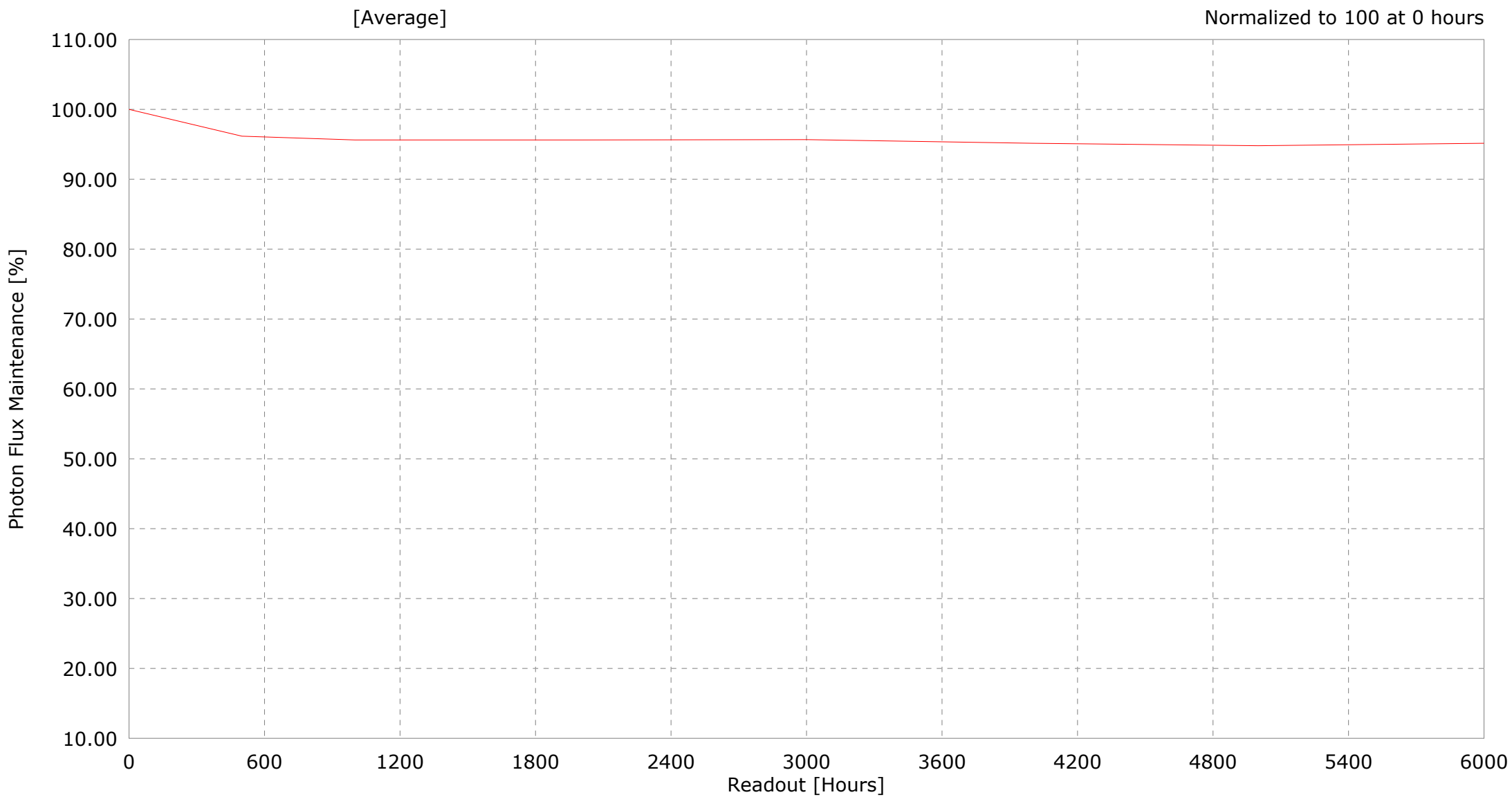
Sample Name: OPPL-E27
 Model: OP-22W-3000K
 Ratings: 120mA, 1500lm, 85(Ra), 3000K
 Manufacturer: Oppla

Sample Quantity	8
Number Of Failures	0
DUT drive voltage used in the test (V/Hz)	220.1/50.02
Test duration (hours)	6000
Test duration used for projection (hour to hour)	1000 - 6000
Tested case temperature (°C)	55
a	1.603E-06
B	0.9587
Calculated L70(6k) (hours)	196133
Reported L70(6k) (hours)	>33000
Calculated L50(6k) (hours)	405989
Reported L50(6k) (hours)	>33000

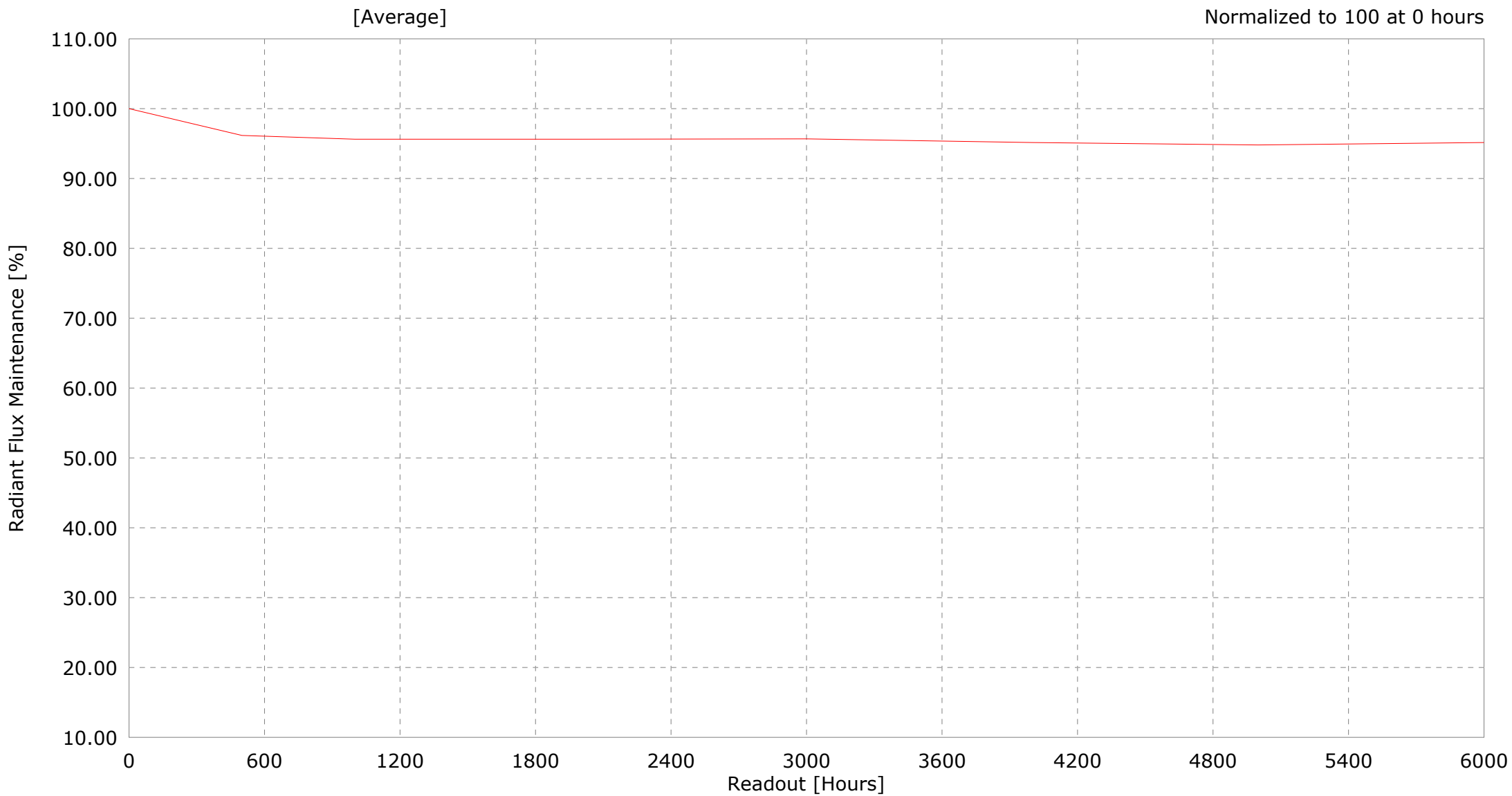
Lumen Maintenance Graph [%]



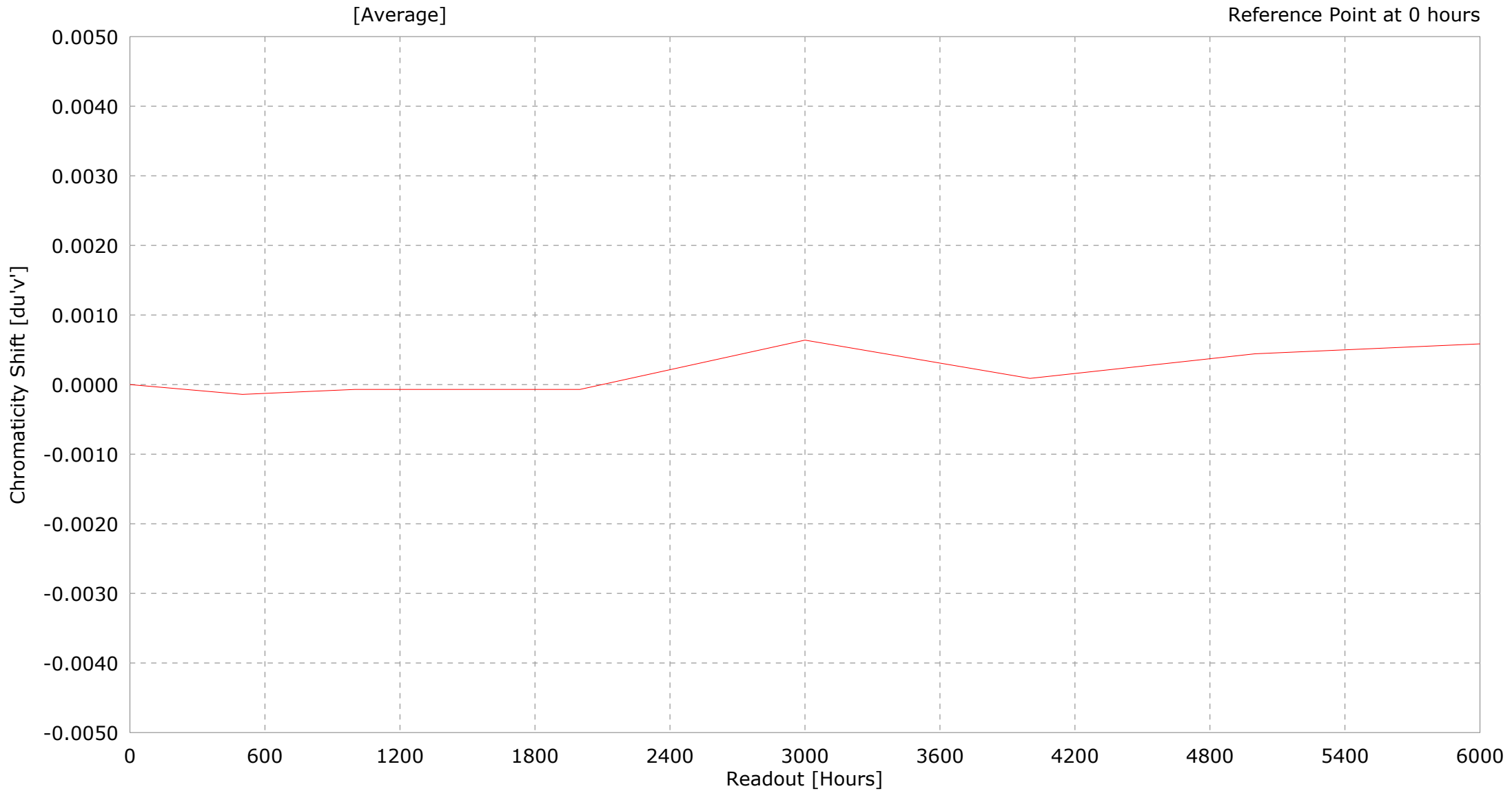
Photon Flux Maintenance Graph [%]



Radiant Flux Maintenance Graph [%]



Chromaticity Shift Graph [du'v']



Lumen Maintenance Table [%]

Model : OP-22W-3000K

Ratings : 120mA, 1500lm, 85(Ra), 3000K

Actual Temperature : Ta = 55.0°C, Ts = 65.0°C

Humidity : R.H. = 60%

Number Of Failures : 0

Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	100.00	95.00	94.40	94.70	94.70	94.30	94.00	94.30
2	100.00	96.70	96.00	96.00	96.00	95.60	95.10	95.60
3	100.00	95.40	94.70	94.90	94.60	94.10	93.60	94.10
4	100.00	97.00	96.70	96.50	96.70	96.40	96.10	96.40
5	100.00	95.90	95.30	95.30	95.30	94.80	94.50	94.80
6	100.00	96.80	96.40	96.60	96.30	95.90	95.40	95.80
7	100.00	96.20	95.80	95.40	96.10	94.90	94.80	95.10
8	100.00	96.20	95.70	95.50	95.60	95.20	94.80	95.10
Median	100.00	96.20	95.75	95.45	95.80	95.05	94.80	95.10
Average	100.00	96.15	95.62	95.61	95.66	95.15	94.79	95.15
Std. deviation	0.0000	0.6969	0.7924	0.6979	0.7540	0.7873	0.7845	0.7690
Min.	100.00	95.00	94.40	94.70	94.60	94.10	93.60	94.10
Max.	100.00	97.00	96.70	96.60	96.70	96.40	96.10	96.40

Photon Flux Maintenance Table [%]

Model : OP-22W-3000K

Ratings : 120mA, 1500lm, 85(Ra), 3000K

Actual Temperature : Ta = 55.0°C, Ts = 65.0°C

Humidity : R.H. = 60%

Number Of Failures : 0

Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	100.00	95.00	94.40	94.70	94.70	94.30	94.00	94.30
2	100.00	96.70	96.00	96.00	96.00	95.60	95.10	95.60
3	100.00	95.40	94.70	94.90	94.60	94.10	93.60	94.10
4	100.00	97.00	96.70	96.50	96.70	96.40	96.10	96.40
5	100.00	95.90	95.30	95.30	95.30	94.80	94.50	94.80
6	100.00	96.80	96.40	96.60	96.30	95.90	95.40	95.80
7	100.00	96.20	95.80	95.40	96.10	94.90	94.80	95.10
8	100.00	96.20	95.70	95.50	95.60	95.20	94.80	95.10
Median	100.00	96.20	95.75	95.45	95.80	95.05	94.80	95.10
Average	100.00	96.15	95.62	95.61	95.66	95.15	94.79	95.15
Std. deviation	0.0000	0.6970	0.7927	0.6978	0.7539	0.7870	0.7851	0.7683
Min.	100.00	95.00	94.40	94.70	94.60	94.10	93.60	94.10
Max.	100.00	97.00	96.70	96.60	96.70	96.40	96.10	96.40

Radiant Flux Maintenance Table [%]

Model : OP-22W-3000K

Ratings : 120mA, 1500lm, 85(Ra), 3000K

Actual Temperature : Ta = 55.0°C, Ts = 65.0°C

Humidity : R.H. = 60%

Number Of Failures : 0

Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	100.00	95.00	94.41	94.70	94.70	94.30	94.01	94.30
2	100.00	96.71	95.99	95.99	95.99	95.59	95.11	95.59
3	100.00	95.40	94.70	94.89	94.60	94.09	93.61	94.09
4	100.00	97.00	96.71	96.50	96.71	96.39	96.10	96.39
5	100.00	95.91	95.30	95.30	95.30	94.81	94.49	94.81
6	100.00	96.79	96.39	96.60	96.31	95.91	95.40	95.80
7	100.00	96.20	95.80	95.40	96.10	94.89	94.81	95.11
8	100.00	96.20	95.70	95.51	95.59	95.19	94.81	95.11
Median	100.00	96.20	95.75	95.45	95.79	95.04	94.81	95.11
Average	100.00	96.15	95.63	95.61	95.66	95.15	94.79	95.15
Std. deviation	0.0000	0.6973	0.7899	0.6975	0.7556	0.7862	0.7818	0.7668
Min.	100.00	95.00	94.41	94.70	94.60	94.09	93.61	94.09
Max.	100.00	97.00	96.71	96.60	96.71	96.39	96.10	96.39

Chromaticity Shift Table [du'v']

Model : OP-22W-3000K
 Actual Temperature : Ta = 55.0°C, Ts = 65.0°C
 Number Of Failures : 0

Ratings : 120mA, 1500lm, 85(Ra), 3000K
 Humidity : R.H. = 60%
 Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	0.00000	-0.00028	-0.00014	-0.00028	0.00064	0.00000	0.00042	0.00057
2	0.00000	-0.00028	-0.00028	-0.00014	0.00113	0.00014	0.00057	0.00071
3	0.00000	-0.00014	0.00000	0.00000	0.00014	0.00014	0.00057	0.00071
4	0.00000	-0.00014	0.00000	-0.00014	0.00113	0.00000	0.00057	0.00071
5	0.00000	-0.00014	0.00000	0.00014	0.00184	0.00014	0.00071	0.00099
6	0.00000	-0.00014	-0.00014	-0.00014	0.00022	0.00028	0.00071	0.00099
7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Median	0.00000	-0.00014	0.00000	-0.00007	0.00043	0.00007	0.00057	0.00071
Average	0.00000	-0.00014	-0.00007	-0.00007	0.00064	0.00009	0.00044	0.00058
Std. deviation	0.000000	0.000107	0.000107	0.000131	0.000672	0.000105	0.000287	0.000389
Min.	0.00000	-0.00028	-0.00028	-0.00028	0.00000	0.00000	0.00000	0.00000
Max.	0.00000	0.00000	0.00000	0.00014	0.00184	0.00028	0.00071	0.00099

Luminous Flux Table [lm]

Model : OP-22W-3000K

Ratings : 120mA, 1500lm, 85(Ra), 3000K

Actual Temperature : Ta = 55.0°C, Ts = 65.0°C

Humidity : R.H. = 60%

Number Of Failures : 0

Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	1498.01	1423.10	1414.11	1418.61	1418.61	1412.61	1408.12	1412.61
2	1498.02	1448.57	1438.08	1438.08	1438.08	1432.09	1424.60	1432.09
3	1498.02	1429.09	1418.61	1421.60	1417.11	1409.62	1402.13	1409.62
4	1498.03	1453.06	1448.57	1445.57	1448.57	1444.07	1439.58	1444.07
5	1498.01	1436.58	1427.59	1427.59	1427.59	1420.10	1415.61	1420.10
6	1497.99	1450.06	1444.07	1447.07	1442.57	1436.58	1429.09	1435.08
7	1498.00	1441.08	1435.08	1429.09	1439.58	1421.60	1420.10	1424.60
8	1498.01	1441.08	1433.59	1430.59	1432.09	1426.10	1420.10	1424.60
Median	1498.01	1441.08	1434.33	1429.84	1435.08	1423.85	1420.10	1424.60
Average	1498.01	1440.33	1432.46	1432.28	1433.02	1425.35	1419.92	1425.35
Std. deviation	0.01475	10.44005	11.86977	10.45345	11.29370	11.79526	11.75272	11.52027
Min.	1497.99	1423.10	1414.11	1418.61	1417.11	1409.62	1402.13	1409.62
Max.	1498.03	1453.06	1448.57	1447.07	1448.57	1444.07	1439.58	1444.07

Photon Flux Table [umol/s]

Model : OP-22W-3000K
 Actual Temperature : Ta = 55.0°C, Ts = 65.0°C
 Number Of Failures : 0

Ratings : 120mA, 1500lm, 85(Ra), 3000K
 Humidity : R.H. = 60%
 Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	21.545	20.468	20.338	20.403	20.403	20.317	20.252	20.317
2	21.545	20.834	20.683	20.683	20.683	20.597	20.489	20.597
3	21.545	20.554	20.403	20.446	20.382	20.274	20.166	20.274
4	21.545	20.899	20.834	20.791	20.834	20.769	20.705	20.769
5	21.545	20.662	20.532	20.532	20.532	20.425	20.360	20.425
6	21.545	20.856	20.769	20.812	20.748	20.662	20.554	20.640
7	21.545	20.726	20.640	20.554	20.705	20.446	20.425	20.489
8	21.545	20.726	20.619	20.575	20.597	20.511	20.425	20.489
Median	21.545	20.726	20.629	20.565	20.640	20.479	20.425	20.489
Average	21.545	20.716	20.602	20.599	20.611	20.500	20.422	20.500
Std. deviation	0.00000	0.15018	0.17080	0.15033	0.16242	0.16955	0.16916	0.16553
Min.	21.545	20.468	20.338	20.403	20.382	20.274	20.166	20.274
Max.	21.545	20.899	20.834	20.812	20.834	20.769	20.705	20.769

Radiant Flux Table [W]

Model : OP-22W-3000K
 Actual Temperature : Ta = 55.0°C, Ts = 65.0°C
 Number Of Failures : 0

Ratings : 120mA, 1500lm, 85(Ra), 3000K
 Humidity : R.H. = 60%
 Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	4.740	4.503	4.475	4.489	4.489	4.470	4.456	4.470
2	4.740	4.584	4.550	4.550	4.550	4.531	4.508	4.531
3	4.740	4.522	4.489	4.498	4.484	4.460	4.437	4.460
4	4.740	4.598	4.584	4.574	4.584	4.569	4.555	4.569
5	4.740	4.546	4.517	4.517	4.517	4.494	4.479	4.494
6	4.740	4.588	4.569	4.579	4.565	4.546	4.522	4.541
7	4.740	4.560	4.541	4.522	4.555	4.498	4.494	4.508
8	4.740	4.560	4.536	4.527	4.531	4.512	4.494	4.508
Median	4.740	4.560	4.538	4.524	4.541	4.505	4.494	4.508
Average	4.740	4.558	4.533	4.532	4.534	4.510	4.493	4.510
Std. deviation	0.00000	0.03305	0.03744	0.03306	0.03582	0.03727	0.03706	0.03635
Min.	4.740	4.503	4.475	4.489	4.484	4.460	4.437	4.460
Max.	4.740	4.598	4.584	4.579	4.584	4.569	4.555	4.569

Efficiency Table [lm/W]

Model : OP-22W-3000K

Ratings : 120mA, 1500lm, 85(Ra), 3000K

Actual Temperature : Ta = 55.0°C, Ts = 65.0°C

Humidity : R.H. = 60%

Number Of Failures : 0

Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	68.06	64.66	64.25	64.45	64.45	64.18	63.98	64.18
2	68.06	65.81	65.34	65.34	65.34	65.07	64.73	65.07
3	68.06	64.93	64.45	64.59	64.38	64.04	63.70	64.04
4	68.06	66.02	65.81	65.68	65.81	65.61	65.41	65.61
5	68.06	65.27	64.86	64.86	64.86	64.52	64.32	64.52
6	68.06	65.88	65.61	65.75	65.54	65.27	64.93	65.20
7	68.06	65.47	65.20	64.93	65.41	64.59	64.52	64.73
8	68.06	65.47	65.13	65.00	65.07	64.79	64.52	64.73
Median	68.06	65.47	65.17	64.96	65.20	64.69	64.52	64.73
Average	68.06	65.44	65.08	65.07	65.11	64.76	64.51	64.76
Std. deviation	0.0007	0.4743	0.5393	0.4749	0.5131	0.5359	0.5340	0.5234
Min.	68.06	64.66	64.25	64.45	64.38	64.04	63.70	64.04
Max.	68.06	66.02	65.81	65.75	65.81	65.61	65.41	65.61

Correlated Color Temperature Table [K]

Model : OP-22W-3000K

Ratings : 120mA, 1500lm, 85(Ra), 3000K

Actual Temperature : Ta = 55.0°C, Ts = 65.0°C

Humidity : R.H. = 60%

Number Of Failures : 0

Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	2987	2994	2990	2994	2972	2987	2978	2975
2	2987	2994	2994	2990	2962	2984	2975	2971
3	2990	2994	2990	2990	2987	2987	2978	2975
4	2990	2994	2990	2994	2965	2990	2978	2975
5	2990	2994	2990	2987	2949	2987	2975	2968
6	2990	2994	2994	2994	2987	2984	2975	2968
7	2987	2987	2987	2987	2987	2987	2987	2987
8	2987	2987	2987	2987	2987	2987	2987	2987
Median	2989	2994	2990	2990	2980	2987	2978	2975
Average	2989	2992	2990	2990	2975	2987	2979	2976
Std. deviation	1.60357	3.24037	2.65922	3.24863	14.77450	1.92261	5.05505	7.53563
Min.	2987	2987	2987	2987	2949	2984	2975	2968
Max.	2990	2994	2994	2994	2987	2990	2987	2987

Coordinate - x Table

Model : OP-22W-3000K
 Actual Temperature : Ta = 55.0°C, Ts = 65.0°C
 Number Of Failures : 0

Ratings : 120mA, 1500lm, 85(Ra), 3000K
 Humidity : R.H. = 60%
 Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	0.42945	0.42895	0.42920	0.42895	0.43058	0.42945	0.43020	0.43046
2	0.42945	0.42895	0.42895	0.42920	0.43146	0.42970	0.43046	0.43071
3	0.42920	0.42895	0.42920	0.42920	0.42945	0.42945	0.43020	0.43046
4	0.42920	0.42895	0.42920	0.42895	0.43121	0.42920	0.43020	0.43046
5	0.42920	0.42895	0.42920	0.42945	0.43247	0.42945	0.43046	0.43096
6	0.42920	0.42895	0.42895	0.42895	0.42958	0.42970	0.43046	0.43096
7	0.42945	0.42945	0.42945	0.42945	0.42945	0.42945	0.42945	0.42945
8	0.42945	0.42945	0.42945	0.42945	0.42945	0.42945	0.42945	0.42945
Median	0.42933	0.42895	0.42920	0.42920	0.43008	0.42945	0.43020	0.43046
Average	0.42933	0.42908	0.42920	0.42920	0.43046	0.42948	0.43011	0.43036
Std. deviation	0.000134	0.000232	0.000189	0.000232	0.001160	0.000161	0.000423	0.000599
Min.	0.42920	0.42895	0.42895	0.42895	0.42945	0.42920	0.42945	0.42945
Max.	0.42945	0.42945	0.42945	0.42945	0.43247	0.42970	0.43046	0.43096

Coordinate - y Table

Model : OP-22W-3000K
 Actual Temperature : Ta = 55.0°C, Ts = 65.0°C
 Number Of Failures : 0

Ratings : 120mA, 1500lm, 85(Ra), 3000K
 Humidity : R.H. = 60%
 Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	0.38716	0.38687	0.38702	0.38687	0.38772	0.38716	0.38761	0.38776
2	0.38716	0.38687	0.38687	0.38702	0.38835	0.38731	0.38776	0.38791
3	0.38702	0.38687	0.38702	0.38702	0.38716	0.38716	0.38761	0.38776
4	0.38702	0.38687	0.38702	0.38687	0.38821	0.38702	0.38761	0.38776
5	0.38702	0.38687	0.38702	0.38716	0.38895	0.38716	0.38776	0.38806
6	0.38702	0.38687	0.38687	0.38687	0.38736	0.38731	0.38776	0.38806
7	0.38716	0.38716	0.38716	0.38716	0.38716	0.38716	0.38716	0.38716
8	0.38716	0.38716	0.38716	0.38716	0.38716	0.38716	0.38716	0.38716
Median	0.38709	0.38687	0.38702	0.38702	0.38754	0.38716	0.38761	0.38776
Average	0.38709	0.38694	0.38702	0.38702	0.38776	0.38718	0.38755	0.38770
Std. deviation	0.000079	0.000137	0.000112	0.000137	0.000675	0.000095	0.000250	0.000355
Min.	0.38702	0.38687	0.38687	0.38687	0.38716	0.38702	0.38716	0.38716
Max.	0.38716	0.38716	0.38716	0.38716	0.38895	0.38731	0.38776	0.38806

Coordinate - u Table'

Model : OP-22W-3000K
 Actual Temperature : Ta = 55.0°C, Ts = 65.0°C
 Number Of Failures : 0

Ratings : 120mA, 1500lm, 85(Ra), 3000K
 Humidity : R.H. = 60%
 Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	0.25310	0.25290	0.25300	0.25290	0.25360	0.25310	0.25340	0.25350
2	0.25310	0.25290	0.25290	0.25300	0.25390	0.25320	0.25350	0.25360
3	0.25300	0.25290	0.25300	0.25300	0.25310	0.25310	0.25340	0.25350
4	0.25300	0.25290	0.25300	0.25290	0.25380	0.25300	0.25340	0.25350
5	0.25300	0.25290	0.25300	0.25310	0.25430	0.25310	0.25350	0.25370
6	0.25300	0.25290	0.25290	0.25290	0.25310	0.25320	0.25350	0.25370
7	0.25310	0.25310	0.25310	0.25310	0.25310	0.25310	0.25310	0.25310
8	0.25310	0.25310	0.25310	0.25310	0.25310	0.25310	0.25310	0.25310
Median	0.25305	0.25290	0.25300	0.25300	0.25335	0.25310	0.25340	0.25350
Average	0.25305	0.25295	0.25300	0.25300	0.25350	0.25311	0.25336	0.25346
Std. deviation	0.000053	0.000093	0.000076	0.000093	0.000469	0.000064	0.000169	0.000239
Min.	0.25300	0.25290	0.25290	0.25290	0.25310	0.25300	0.25310	0.25310
Max.	0.25310	0.25310	0.25310	0.25310	0.25430	0.25320	0.25350	0.25370

Coordinate - v Table'

Model : OP-22W-3000K
 Actual Temperature : Ta = 55.0°C, Ts = 65.0°C
 Number Of Failures : 0

Ratings : 120mA, 1500lm, 85(Ra), 3000K
 Humidity : R.H. = 60%
 Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	0.51340	0.51320	0.51330	0.51320	0.51380	0.51340	0.51370	0.51380
2	0.51340	0.51320	0.51320	0.51330	0.51420	0.51350	0.51380	0.51390
3	0.51330	0.51320	0.51330	0.51330	0.51340	0.51340	0.51370	0.51380
4	0.51330	0.51320	0.51330	0.51320	0.51410	0.51330	0.51370	0.51380
5	0.51330	0.51320	0.51330	0.51340	0.51460	0.51340	0.51380	0.51400
6	0.51330	0.51320	0.51320	0.51320	0.51350	0.51350	0.51380	0.51400
7	0.51340	0.51340	0.51340	0.51340	0.51340	0.51340	0.51340	0.51340
8	0.51340	0.51340	0.51340	0.51340	0.51340	0.51340	0.51340	0.51340
Median	0.51335	0.51320	0.51330	0.51330	0.51365	0.51340	0.51370	0.51380
Average	0.51335	0.51325	0.51330	0.51330	0.51380	0.51341	0.51366	0.51376
Std. deviation	0.000053	0.000093	0.000076	0.000093	0.000457	0.000064	0.000169	0.000239
Min.	0.51330	0.51320	0.51320	0.51320	0.51340	0.51330	0.51340	0.51340
Max.	0.51340	0.51340	0.51340	0.51340	0.51460	0.51350	0.51380	0.51400

Dominant Wavelength Table [nm]

Model : OP-22W-3000K

Ratings : 120mA, 1500lm, 85(Ra), 3000K

Actual Temperature : Ta = 55.0°C, Ts = 65.0°C

Humidity : R.H. = 60%

Number Of Failures : 0

Drive Voltage : U = 220.1V, Freq. = 50.02Hz

No.	0H	500H	1000H	2000H	3000H	4000H	5000H	6000H
1	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
4	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
5	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
6	585.3	585.3	585.3	585.3	585.2	585.3	585.3	585.3
7	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
8	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
Median	524.9	524.8	524.9	524.9	525.3	524.9	525.1	525.2
Average	524.9	524.8	524.9	524.9	526.8	528.3	525.1	525.2
Std. deviation	0.00007	0.04631	0.04631	0.05177	4.71592	6.29557	0.12464	0.16034
Min.	524.9	524.8	524.8	524.8	524.9	524.9	524.9	524.9
Max.	524.9	524.9	524.9	524.9	538.5	538.5	525.2	525.3

