ANSI/IES TM-21-22 Report

Description of tested LED light source:

Osram Semiconductor OSCONIQ P 3737 (2W)

Rated maximum current (DC): 1000 mA **Temperature (interpolated):** 83.2 °C **Flux maintenance L95:** > 102,000 hours

Nominal Vf: 3.46 V **In-situ current (interpolated):** 1000 mA **Flux maintenance at 100000 hours:** 8267.68%

Maximum input power: 3.46 W

		Parameter	55°C, 1000mA	-	85°C, 1000mA	-	Interpolation
	Data	Temperature (°C)	55	-	85	-	83.2°C
		Temperature (K)	328.15	-	358.15	-	356K
		LM-80 test current	1000	-	1000	-	1000mA
		α	2.000e-6	-	2.000e-6	-	2.000e-6
		B	101.0789	-	100.9755	-	100.9817
		L95 (hours)	> 102,000	-	> 102,000	-	> 102,000
		#DUT	24	-	24	-	
		#Failures	0	-	0	-	
Interpolation	Current	α	-	-	-	-	-
		B	-	-	-	-	-
		L95 (hours)	-		-		
	Temperature	α	2.000e-6	-	-	-	-
		B	100.9817	-	-	-	-
		L95 (hours)	> 102,000				

Report generated by:
Patrick Huang
Company:
TransLEDer LLC
Date:
March 13, 2022

Notes:

The content of this report was generated by Illuminating Engineering Society's online TM-21 calculator (www.ies.org/tools) on 03/12/2022, in conformance with the ANSI/IES TM-21-22 standard published by IES, 120 Wall Street, New York, New York 10005.

ANSI/IES TM-21-22 Report

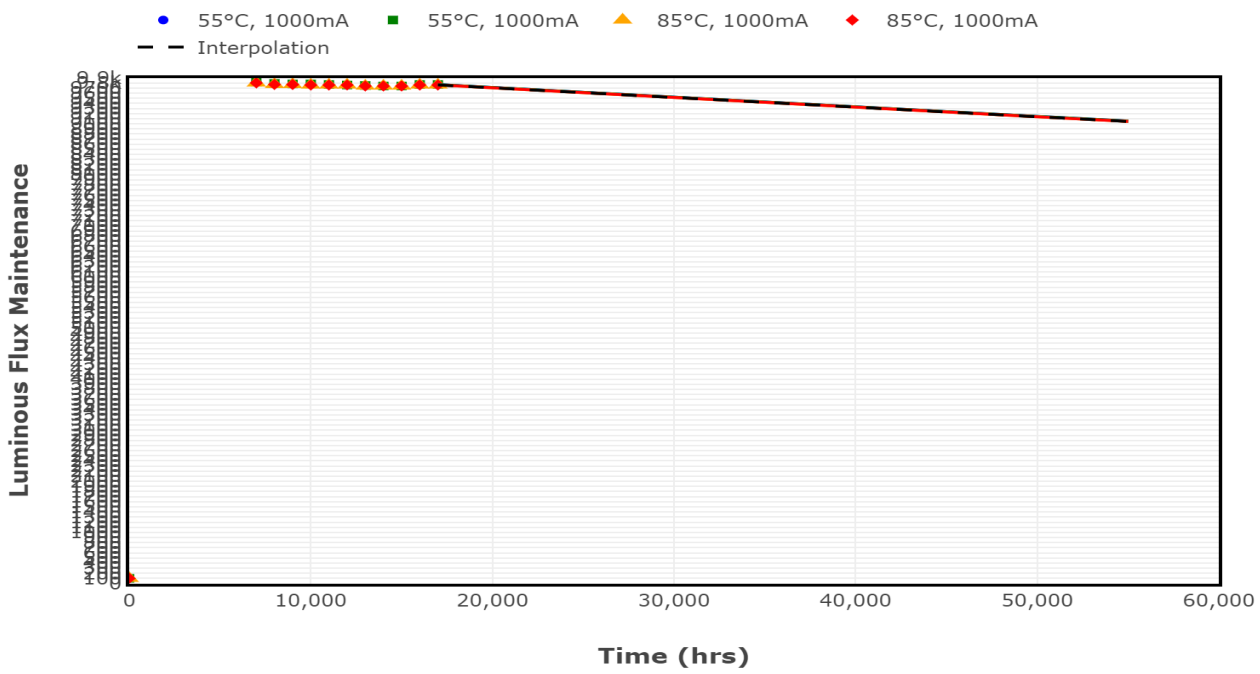
Description of tested LED light source:

Osram Semiconductor OSCONIQ P 3737 (2W)

Rated maximum current (DC): 1000 mA **Temperature (interpolated):** 83.2 °C **Flux maintenance L95:** > 102,000 hours

Nominal Vf: 3.46 V **In-situ current (interpolated):** 1000 mA **Flux maintenance at 100000 hours:** 8267.68%

Maximum input power: 3.46 W



Report generated by:
Patrick Huang
Company:
TransLEDer LLC
Date:
March 13, 2022

Notes:

The content of this report was generated by Illuminating Engineering Society's online TM-21 calculator (www.ies.org/tools) on 03/12/2022, in conformance with the ANSI/IES TM-21-22 standard published by IES, 120 Wall Street, New York, New York 10005.

ANSI/IES TM-21-22 Report

Description of tested LED light source:

Osram Semiconductor OSCONIQ P 3737 (2W)

Rated maximum current (DC): 1000 mA
Nominal Vf: 3.46 V
Maximum input power: 3.46 W

Temperature (interpolated): 83.2 °C
In-situ current (interpolated): 1000 mA

Flux maintenance L95: > 102,000 hours
Flux maintenance at 100000 hours: 8267.68%

Analysis summary at LM-80 Testing Conditions

Temp (°C)	Current (mA)	DUT		Test Duration	Test Data for Projection		Alpha	B	L95
		Initial	Failures		Start Hours	Stop Hours			
55	1000	24	0	17000 hrs	8000	17000	2.000e-6	101.0789	> 102,000
85	1000	24	0	17000 hrs	8000	17000	2.000e-6	100.9755	> 102,000
105	1000	24	0	17000 hrs	8000	17000	2.000e-6	100.1478	> 102,000

Report generated by:
Patrick Huang
Company:
TransLEDer LLC
Date:
March 13, 2022

Notes:

The content of this report was generated by Illuminating Engineering Society's online TM-21 calculator (www.ies.org/tools) on 03/12/2022, in conformance with the ANSI/IES TM-21-22 standard published by IES, 120 Wall Street, New York, New York 10005.

ANSI/IES TM-21-22 Report

Description of tested LED light source:

Osram Semiconductor OSCONIQ P 3737 (2W)

Rated maximum current (DC): 1000 mA

Nominal Vf: 3.46 V

Maximum input power: 3.46 W

Temperature (interpolated): 83.2 °C

In-situ current (interpolated): 1000 mA

Flux maintenance L95: > 102,000 hours

Flux maintenance at 100000 hours: 8267.68%

User Entered ANSI/IES LM-80 Data

	Condition 1	Condition 2
Case temperature (°C):	55	85
Drive Current (mA):	1000	1000
Number of units tested:	24	24
Number of failures:	0	0

Measured data:

Hours	Flux	Hours	Flux
0	1	0	1
7000	98.2	7000	98
8000	97.9	8000	97.7
9000	97.8	9000	97.7
10000	97.8	10000	97.6
11000	97.7	11000	97.6
12000	97.6	12000	97.6
13000	97.5	13000	97.4
14000	97.4	14000	97.4
15000	97.4	15000	97.4
16000	97.7	16000	97.6
17000	97.7	17000	97.6

Report generated by:
Patrick Huang
Company:
TransLEDer LLC
Date:
March 13, 2022

Notes:

The content of this report was generated by Illuminating Engineering Society's online TM-21 calculator (www.ies.org/tools) on 03/12/2022, in conformance with the ANSI/IES TM-21-22 standard published by IES, 120 Wall Street, New York, New York 10005.