



Oplevの光源のマニュアルより。
 型番: SLD-MS-261-MP1-FC/APC-PMF
 中心波長は 670-680nm
 出力は 1mW前後のはず。

16 pins MOLEX 87833 1620 "ANALOG CONTROL"			
1	+5 V STAB	OUT	+5 V indicates that DC power is supplied to SLD MS module; R=10 Ω.
3	SLD I LIMIT	OUT	Analog output — control of set SLD limit.
5	REF OUT	OUT	Output, reference voltage 4.096 V; R= 50 Ω.
7	PD OUT	OUT	Backfacet PD monitor, control of PD monitor current.
9	SLD I SET	IN	SLD set current (ACC), analog input 0-5 V; 1 MΩ.
11	SLD I REAL	OUT	Analog output, control of real SLD current.
13	SLD I SETC	OUT	Analog output, control of set SLD current.
15	TEC I	OUT	Analog output, control of TEC.
2,4,6,8,10,12,14,16	ANALOG GND		Analog ground.
Attention: DC supply ground, analog ground and case of SLD MS light source module are connected inside SLD MS unit.			

光源本体についているanalog端子のpin7の出力が1V=1mAらしいので、まずはこれを、すべての光源について確認したい。

Table 5. Detailed description of analog outputs ("ANALOG" I/O connector)

PIN & name	Description	Scale	Voltage	Note
Pin 1, +5 V STAB	+5V DC output	-	5 V	± 2%
Pin 3, SLD I LIMIT	SLD current limit	1 V= 100 mA	0 – 4 V	
Pin 5, REF OUT	Reference output voltage		4.096 V	± 0.5%
Pin 7, PD OUT	PD monitor photocurrent	1 V=1 mA	0 – 4 V	
Pin 11, SLD I REAL	Real current through SLD	1 mV= 1mA	0 – 0.4 V	
Pin 13, SLD I SETC	Set SLD current (ACC)	1 V= 100 mA	0 – 4 V	
Pin 15, TEC I	TEC current	1 V= 1 A	0 – 1.5 V	