

## NERLITE® S-40 Series Custom Models

**S-40 Area Arrays** employ a non-diffused round or 'spot' design providing light from a specific direction onto the field of view. The direction of the illumination is dependent upon the mounting position. S-40 Series modules may be used as dark-field (creating shadows and specular reflection), or as bright-field for diffused surfaces.

Model #	Description
RVA:010650308	S-40, R LED-ND, 12V-C
RVA:010651223	S-40, W LED-D, 24V-C <sup>2</sup>
RVA:010651205	S-40, W LED-ND, 12V-C
RVA:010651208	S-40, W LED-D, 12V-C <sup>2</sup>
RVA:010651209	S-40, W LED-F, 12V-C <sup>2</sup>
RVA:010651207	S-40, G LED-ND, 24V-S
RVA:010651210	S-40, G LED-ND, 12V-C
RVA:010650311	S-40, I LED-F, 24V-S, 880nm, FL = 75mm
RVA:010650310	S-40, I LED-ND, 24V-C, 880 nm
RVA:010650312	S-40, I LED-ND, 24V-C, 940nm, 15' Cbl w/Flying Leads <sup>2</sup>
RVA:010650313	S-40, I LED-F, 24V-S, 880nm, FL = 75mm, 15' Cbl w/Flying Leads
RVA:010651224	S-40, U LED-ND, 12V-C
RVA:010651225	S-40, U LED-ND, 24V-S
RVA:010651226	S-40, U LED-ND, 24V-C, w/ Glass Cover <sup>2</sup>

Description Key Example

### AR-00x00, RLED-D, 12V-C

Family Designation	Array Size (mm -approx.)	Color: R-Red W-White B-Blue G-Green I-Infrared U-Ultraviolet	Delivery: D-Diffused ND- Non-Diffused F-Focused	Source: FO-Fiber Optic FL-Fluorescent LED- Light Em. Diode	Voltage (DC): C-Continuous S-Strobe
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### Illumination & Electrical:

**Lighting Technique:** Bright or Dark-field  
**Light Output Area:** 31.8 mm (1.25 in.)  
**Light Characteristics:**

Source	Color (nm)	Exp. Life <sup>2</sup>	Voltage/Current (max.)		
			12V-C	24V-C	24V-S
LED	UV (370)	TBD <sup>1,2</sup>	64 mA	40 mA	154 mA pk.
LED	Red (636)	60k hrs. <sup>2</sup>	75 mA	n/a	n/a
LED	IR (880)	50k hrs. <sup>2</sup>	n/a	42 mA	637 mA pk.
LED	IR (940)	50k hrs. <sup>2</sup>	n/a	42 mA	n/a
LED	White - 6500 Kelvin	10k hrs. <sup>2</sup>	100 mA	46 mA	n/a
LED	Green (533)	10k hrs. <sup>2</sup>	100 mA	n/a	960 mA pk.

**CE Conformity:** All except UV Models

<sup>1</sup> Insufficient data precludes predicting UV LED life expectancy; A spare light strategy is recommended for production systems

<sup>2</sup> Continuous power models with windows (clear, diffused or focused) run hot. To maximize product life, external cooling (e.g. fan and/or reduced ambient temperature) is required.



### Mechanical:

**OD x H (mm/in.):** 38.1mm x 54.2 mm (1.50 in. x 2.14 in.)  
**Mounting:** (1) 10-32 stud on top of unit  
**Housing Material:** Black Anodized Aluminum  
**Weight:** 227 grams (8 oz.)

### Environmental:

**Max. Operating Humidity:** 95% non-condensing  
**Operating Temp.:** 40°C (104°F)<sup>2</sup>  
**Storage Temp.:** 50°C (122°F)

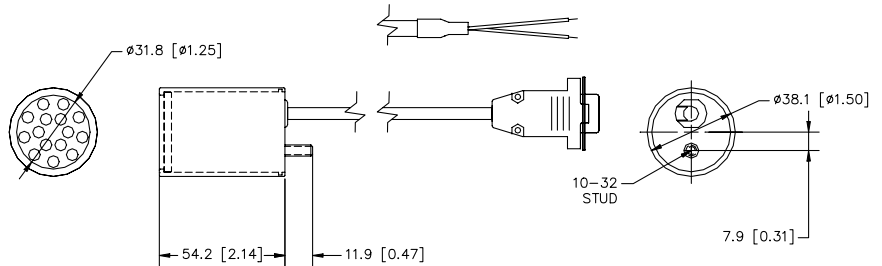
### Accessories:

Part #	Description	Models Used On
RVA:010500301	CPS-12 3.5A, 12VDC, US Cord	12V-C
RVA:010500303	CPS-12 3.5A, 12VDC, EU Cord	12V-C
RVA:010501402	CPS-24, 24VDC, US cord	24V-S <sup>3,4</sup>
RVA:010501401	CPS-24, 24VDC, EU cord	24V-S <sup>3,4</sup>
RVA:010502601	CPS-24T, 24VDC US w/9-pin D-sub	24V-C & 24V-S <sup>3,4</sup>
RVA:010502602	CPS-24T, 24VDC EU w/9-pin D-sub	24V-C & 24V-S <sup>3,4</sup>
RVA:010502700	ICM-1, M/D Intensity Cntrl, 12V-C	12V-C
RVA:010502701	ICM-1, M/D Intensity Cntrl, 24V-C	24V-C <sup>3</sup>
RVA:010502702	SCM-1, 1 Channel M/D Strobe Cntrl.	24V-S <sup>3</sup>
RVA:010901900	SCM-2, 2 Channel Strobe Cntrl.	24V-S <sup>3</sup>
RVA:010503500	VPS-II, 2 Ch. Variable PS, US Cord	12V-C
RVA:010503501	VPS-II, 2 Ch. Variable PS, EU Cord	12V-C
RVA:030003702	Ext. Cable, Cont., 1.8 M (6 ft.)	12V-C & 24V-C <sup>3</sup>
RVA:030003703	Ext. Cable, Cont., 3.0 M (10 ft.)	12V-C & 24V-C <sup>3</sup>
RVA:030003601	Y cable, 2 Lights, 9 pin D-sub Cont.	12V-C & 24V-C <sup>3</sup>
RVA:030007006	Ext. Cable, Strobe, 1.8 M (6 ft.)	24V-S
RVA:030007010	Ext. Cable, Strobe, 3.0 M (10 ft.)	24V-S
RVA:030006900	Y cable, 2 Lights, 9 pin D-sub Strb.	24V-S

<sup>3</sup> RVA:01050140x used only with RVA:010901900;

RVA:01050260x used with either RVA:010502702 or 24V-C lights with DB-9 connectors

<sup>4</sup> 24V-C and 24V-S accessories are not available for "Flying Leads" configurations



### Cables/Connectors:

Connector	Length	Pin#	1	2	3	4	5	6	7	8	9
<b>12V-C Models</b>	9 pin D-sub Male	1.8 M (6.0 ft.)	n/a	n/a	GND	+12VDC	n/a	n/a	n/a	n/a	n/a
<b>24V-C Models<sup>1</sup></b>	9 pin D-sub Male <sup>1</sup>	2.0 M (6.6 ft.) <sup>1</sup>	n/a	n/a	n/a	n/a	n/a	n/a	+24VDC	n/a	GND
<b>24V-S Models<sup>1</sup></b>	9 pin D-sub Male <sup>1</sup>	2.0 M (6.6 ft.) <sup>1</sup>	V-	n/a	n/a	+24VDC	n/a	n/a	n/a	n/a	n/a

<sup>1</sup> Note: 24V-C and 24V-S Models w/"Flying Leads" have a 4.5 M (15 ft.) cable with two (2) tinned leads and no connector; leads are labeled GND and V+ (+24VDC)