

NERLITE® D-150 Series Dome Illuminators

D-150 Series Dome Illuminators provide diffused, uniform light. The dome design is good for applications with shiny, bumpy surfaces. As there is no on-axis illumination, there will be an absence of light in the center of the image. When the application demands a continuous envelope of light, i.e. continuous diffuse illumination, use NER's [Cloudy Day Illuminator \(CDI\)](#) products.

Model #	Description
RVA:010600401	D-150, R LED-D, 12V-C
RVA:010600403	D-150, R LED-D, 24V-C, w/Flying Leads
RVA:010600404	D-150, R LED-D, 24V-C, w/DB9
RVA:010600402	D-150, R LED-D, 24V-S
RVA:010600410	D-150, W LED-D, 12V-C
RVA:010600411	D-150, W LED-D, 24V-C, w/DB9
RVA:010600412	D-150, W LED-D, 24V-S
RVA:010600490	D-150, I LED-D, 24V-C, w/DB9
RVA:010600491	D-150, Y LED-D, 12V-C, 590nm

Mechanical:

OD x H (mm/in.): 157.3 mm x 83.3 mm
(6.19 in. x 3.28 in.)

Mounting: (2) 10-32 on top of unit

Housing Material: Black Anodized Aluminum

Weight: 510 grams (1.25 lbs.)



Environmental

Max. Operating Humidity 95% non-condensing

Operating Temp. 40°C (104°F)

Storage Temp. 50°C (122°F)

Accessories:

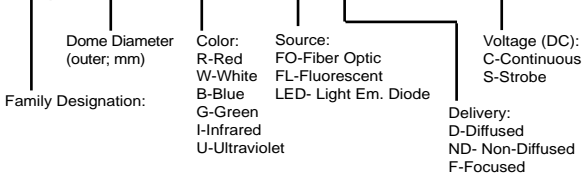
Part #	Description	Models Used On
RVA:010500301	CPS-12 3.5A, 12VDC, US Cord	12V-C
RVA:010500303	CPS-12 3.5A, 12VDC, EU Cord	12V-C
RVA:010501402	CPS-24, 24VDC, US cord	24V-S ¹
RVA:010501401	CPS-24, 24VDC, EU cord	24V-S ¹
RVA:010502601	CPS-24T, 24VDC US w/9-pin D-sub	24V-C & 24V-S ^{1,2}
RVA:010502602	CPS-24T, 24VDC EU w/9-pin D-sub	24V-C & 24V-S ^{1,2}
RVA:010502700	ICM-1, M/D Intensity Cntrl, 12V-C	12V-C
RVA:010502701	ICM-1, M/D Intensity Cntrl, 24V-C	24V-C ²
RVA:010502702	SCM-1, 1 Channel M/D Strobe Cntrl.	24V-S
RVA:010901900	SCM-2, 2 Channel Strobe Cntrl.	24V-S
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 ²
RVA:030003703	Ext. Cable, Cont., 3.0 M (10 ft.)	12V-C & 24V-C ²
RVA:030003601	Y cable, 2 Lights, 9 pin D-sub Cont.	12V-C & 24V-C ²
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

¹ RVA:01050140x used only with RVA:010901900;

² RVA:01050260x used with either RVA:010502702 or 24V-C lights with DB-9 connectors

² 24V-C accessories are not available for "Flying Leads" configurations

D-xxx, R LED-D, 12V-C



Illumination & Electrical:

Lighting Technique:

Bright Field

Light Aperture:

25.4 mm (1 in.)

Suggested Stand-Off:

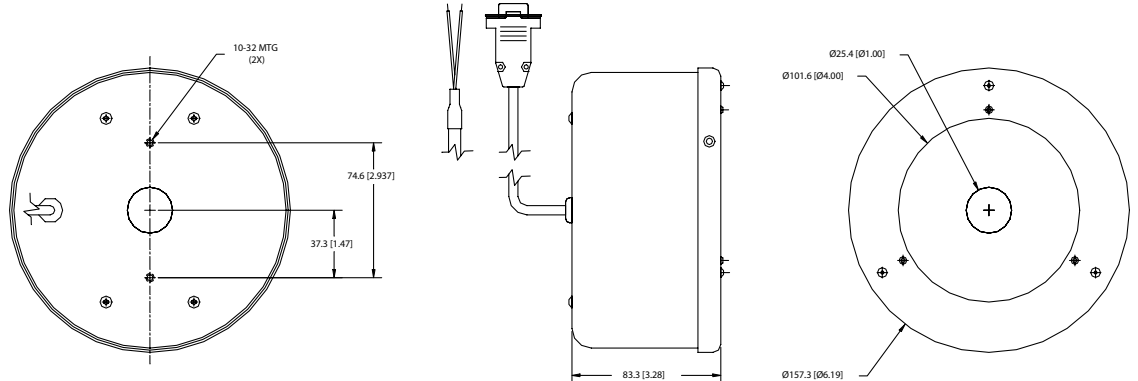
6-12 mm (0.24 – 0.47 in.)

Light Characteristics:

Source	Color (nm)	Exp. Life	Voltage/Current (max.)		
			12V-C	24V-C	24V-S
LED	Red (636)	60k hrs.	225 mA	80 mA	1.8 A pk.
LED	White – 6500 Kelvin	10k hrs.	320 mA	160 mA	3.2 A pk.
LED	Infrared (880)	50k hrs.	n/a	103 mA	n/a
LED	Yellow (590)	tbd	304 mA	n/a	n/a

CE Conformity:

Yes



Cables/Connectors:

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

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