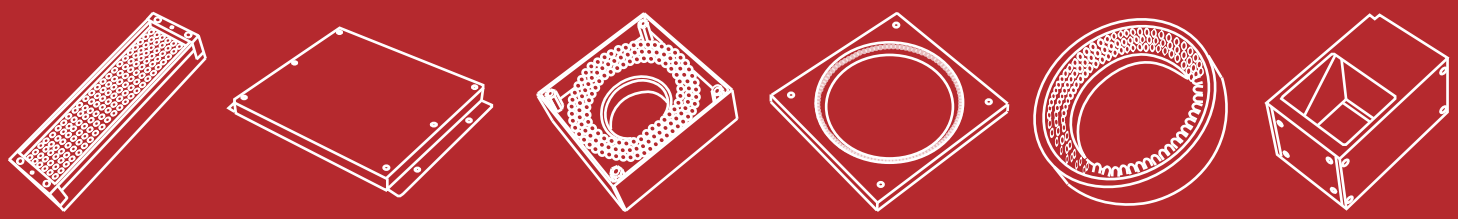
MACHINE VISION LIGHTING

CCS Asia PTE LTD

LAK
MACHINE VISION LIGHTING



LAK SERIES PRODUCT CATALOG



LAK MACHINE VISION LIGHTING

COMPANY PROFILE

About Us

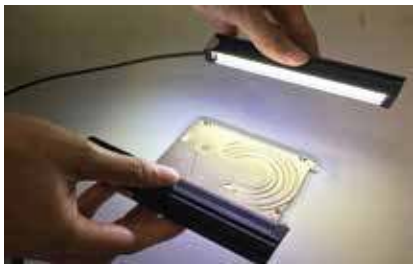
CCS Inc. is a Japanese leading company for Industrial Machine Vision Lighting all over the world. As a subsidiary company, CCS Asia PTE LTD is dedicated to delivering the best solution to South-East Asia and Oceania customers with experience in the lighting technologies of more than 20 years, and we improve any kind of customer's product quality by lighting solution.

Our Mission

Our mission is to deliver "Make it Visible" through lighting solution. For factory automation, machine vision is practically used to control product quality. To keep good quality by avoiding any leaking of defective products, the key point is "Make defects visible". If the camera cannot see, it is not possible to detect through machine vision. To keep your product quality, we do our best to propose best vision components setup for you.

Our Services

Testing facility



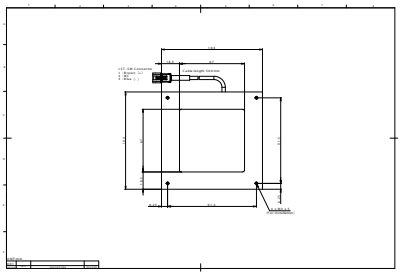
Equipped with a variety of LED lighting, camera and lens. Our testing lab also has the capability to perform area and line scan imaging.

Demo Equipment



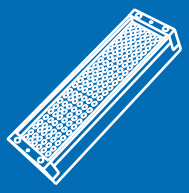
Our equipment can be loaned out for installation into your system for a test run, ensuring the right lighting can be installed before any purchases made.

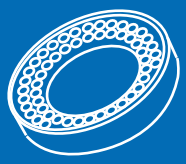
Customisation



According to your specifications, our technical team can assist you in developing customized models to achieve an optimized result.

LED LIGHTING

Bar Light

3

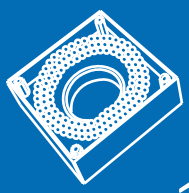
Ring Light (High-angle type)

9

Ring Light (Low-angle type)

11

Ring Light (Zero-angle type)

13

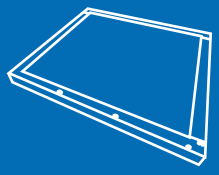
Square Ring Light (High-angle type)

15

Coaxial Light

17

Back Light

19

Big Back Light

21

POWER SUPPLY

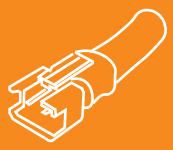
Analog Power Supply

25

Digital Power Supply

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ACCESSORIES

Extension Cables

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Customisation

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Information

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SL Series



Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption[W]	Option	Dimension
SL-33X8x	SL-33X8R	Red	630nm	1.3	Diffuser Polarizer	Fig. 1
	SL-33X8G	Green	525nm			
	SL-33X8B	Blue	470nm			
	SL-33X8IR	Infrared	940nm			
	SL-33X8W	White	5,500k	2.1		
SL-50X15x	SL-50X15R	Red	630nm	1.6		Fig. 2
	SL-50X15G	Green	525nm			
	SL-50X15B	Blue	470nm			
	SL-50X15IR	Infrared	940nm			
	SL-50X15W	White	5,500k	2.6		
SL-100X15x	SL-100X15R	Red	630nm	3.1		Fig. 3
	SL-100X15G	Green	525nm			
	SL-100X15B	Blue	470nm			
	SL-100X15IR	Infrared	940nm			
	SL-100X15W	White	5,500k	5.2		
SL-150X15x	SL-150X15R	Red	630nm	4.6		Fig. 4
	SL-150X15G	Green	525nm			
	SL-150X15B	Blue	470nm			
	SL-150X15IR	Infrared	940nm			
	SL-150X15W	White	5,500k	7.8		
SL-200X15x	SL-200X15R	Red	630nm	6.1		Fig. 5
	SL-200X15G	Green	525nm			
	SL-200X15B	Blue	470nm			
	SL-200X15IR	Infrared	940nm			
	SL-200X15W	White	5,500k	11		
SL-250X15x	SL-250X15R	Red	630nm	7.6		Fig. 6
	SL-250X15G	Green	525nm			
	SL-250X15B	Blue	470nm			
	SL-250X15IR	Infrared	940nm			
	SL-250X15W	White	5,500k	13		
SL-300X15x	SL-300X15R	Red	630nm	9.1		Fig. 7
	SL-300X15G	Green	525nm			
	SL-300X15B	Blue	470nm			
	SL-300X15IR	Infrared	940nm			
	SL-300X15W	White	5,500k	16		

Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption [W]	Option	Dimension
SL-75X30x	SL-75X30R	Red	630nm	4.6	Diffuser Polarizer	Fig. 8
	SL-75X30G	Green	525nm			
	SL-75X30B	Blue	470nm			
	SL-75X30IR	Infrared	940nm			
	SL-75X30W	White	5,500k	6.1		
SL-100X30x	SL-100X30R	Red	630nm	6.1		Fig. 9
	SL-100X30G	Green	525nm			
	SL-100X30B	Blue	470nm			
	SL-100X30IR	Infrared	940nm			
	SL-100X30W	White	5,500k	8.1		
SL-150X30x	SL-150X30R	Red	630nm	9.1		Fig. 10
	SL-150X30G	Green	525nm			
	SL-150X30B	Blue	470nm			
	SL-150X30IR	Infrared	940nm			
	SL-150X30W	White	5,500k	13		
SL-200X30x	SL-200X30R	Red	630nm	13		Fig. 11
	SL-200X30G	Green	525nm			
	SL-200X30B	Blue	470nm			
	SL-200X30IR	Infrared	940nm			
	SL-200X30W	White	5,500k	17		
SL-300X30x	SL-300X30R	Red	630nm	19		Fig. 12
	SL-300X30G	Green	525nm			
	SL-300X30B	Blue	470nm			
	SL-300X30IR	Infrared	940nm			
	SL-300X30W	White	5,500k	25		

Options

Diffuser

Part Number	Applicable Light Unit
DF-SL-33X8	SL-33X8x
DF-SL-50X15	SL-50X15x
DF-SL-100x15	SL-100x15x
DF-SL-150X15	SL-150X15x
DF-SL-200X15	SL-200X15x
DF-SL-250X15	SL-250X15x
DF-SL-300X15	SL-300X15x
DF-SL-75X30	SL-75X30x
DF-SL-100X30	SL-100X30x
DF-SL-150X30	SL-150X30x
DF-SL-200X30	SL-200X30x
DF-SL-300X30	SL-300X30x

Polarizer

Part Number	Applicable Light Unit
PL-SL-33X8	SL-33X8x
PL-SL-50X15	SL-50X15x
PL-SL-100x15	SL-100x15x
PL-SL-150X15	SL-150X15x
PL-SL-200X15	SL-200X15x
PL-SL-250X15	SL-250X15x
PL-SL-300X15	SL-300X15x
PL-SL-75X30	SL-75X30x
PL-SL-100X30	SL-100X30x
PL-SL-150X30	SL-150X30x
PL-SL-200X30	SL-200X30x
PL-SL-300X30	SL-300X30x

LAK MACHINE VISION LIGHTING **SL SERIES**

Dimension (in mm)

Fig. 1 (SL-33X8x)

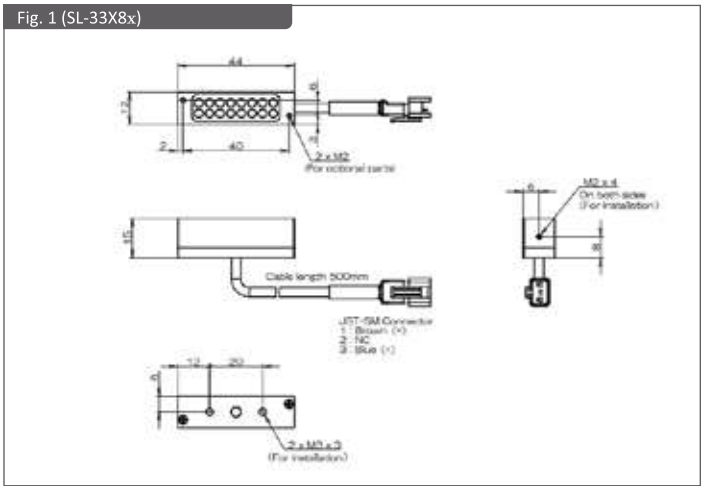


Fig. 2 (SL-50x15x)

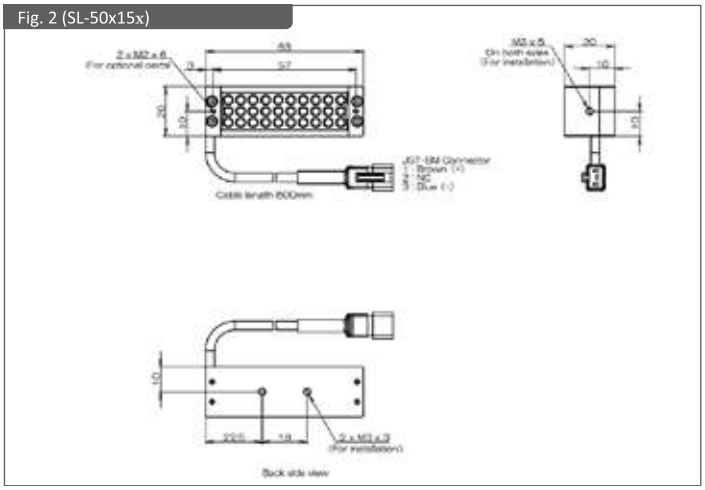


Fig. 3 (SL-100X15x)

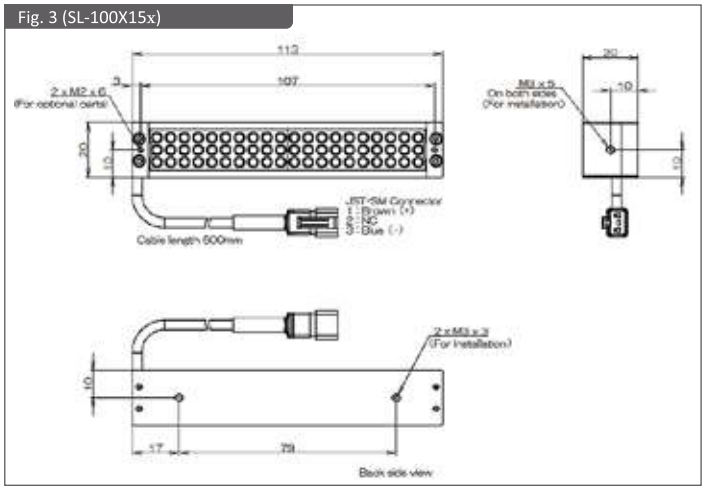


Fig. 4 (SL-150x15x)

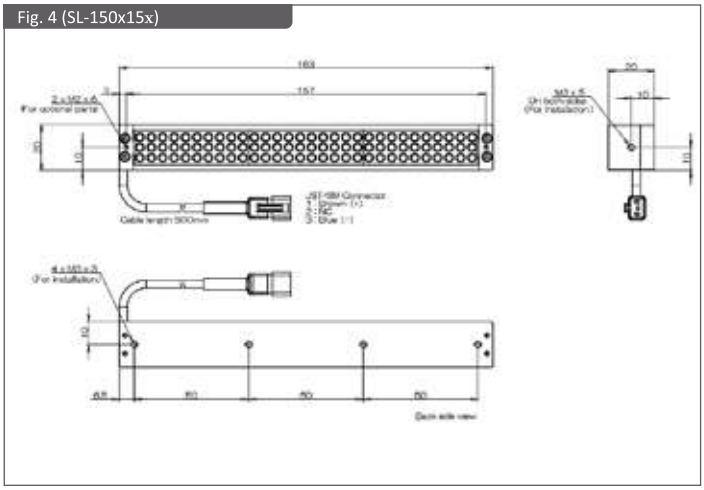


Fig. 5 (SL-200X15x)

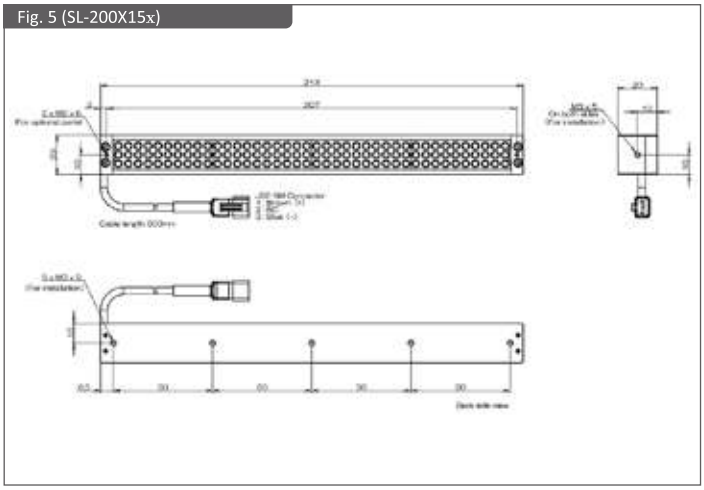
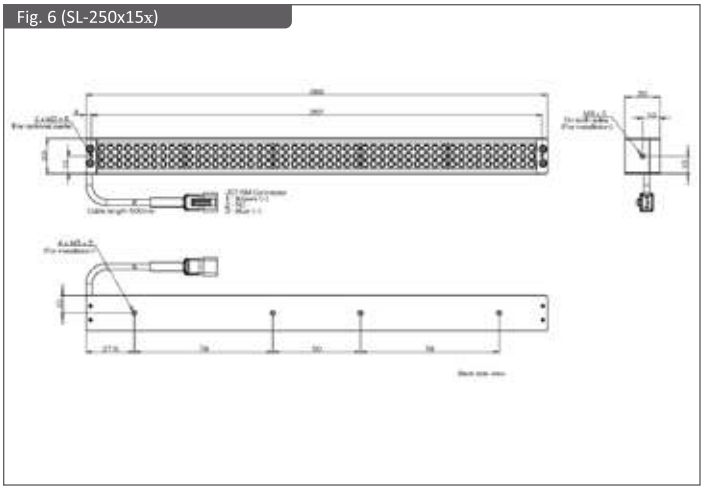


Fig. 6 (SL-250x15x)



Dimension (in mm)

Fig. 7 (SL-300X15x)

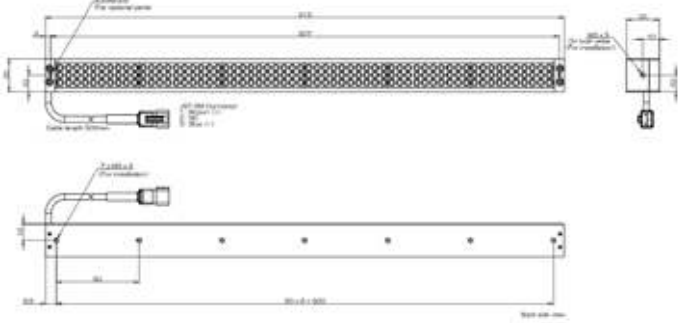


Fig. 8 (SL-75X30x)

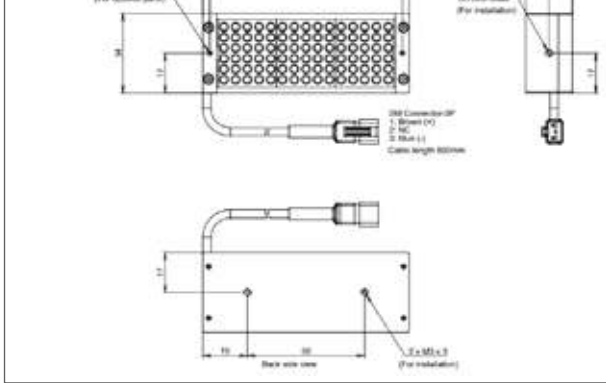


Fig. 9 (SL-100X30x)

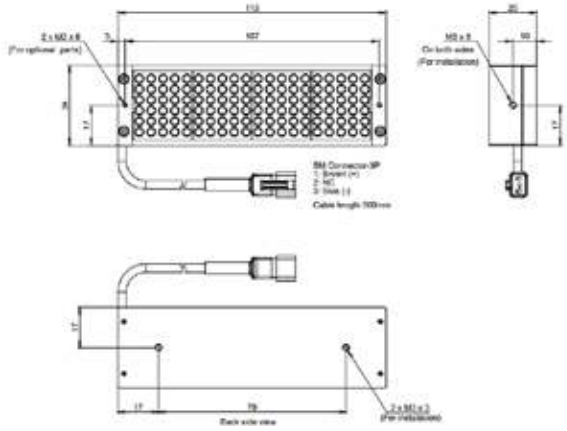


Fig. 10 (SL-150x30x)

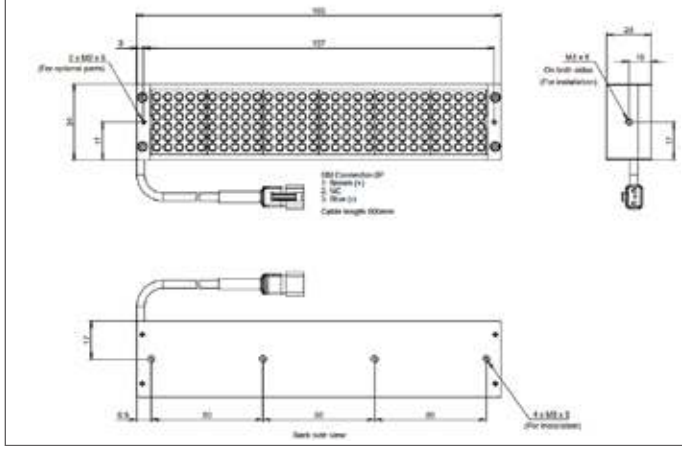


Fig. 11 (SL-200X30x)

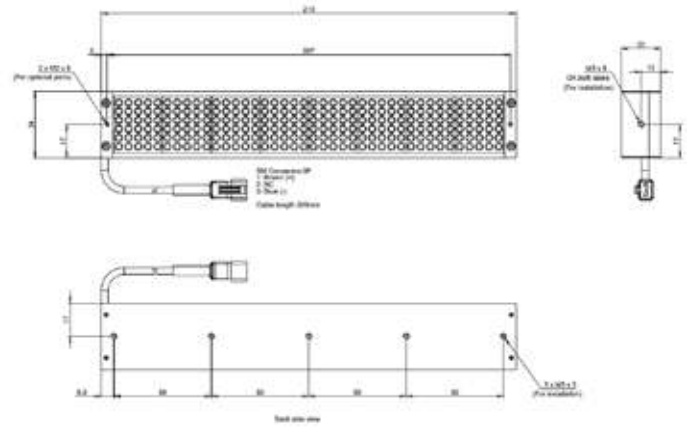
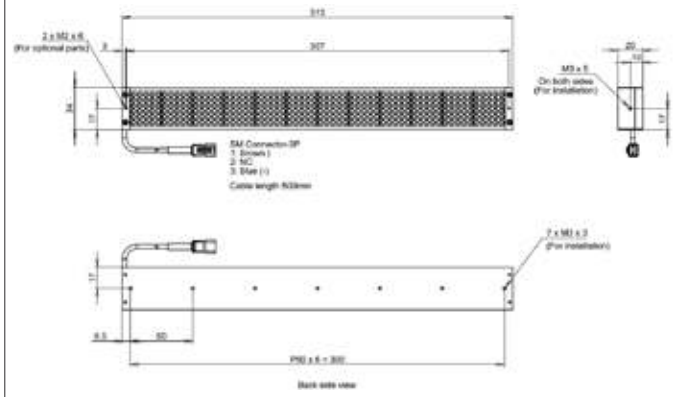


Fig. 12 (SL-300x30x)





LAK MACHINE VISION LIGHTING **SL SERIES**

Semi-Customisation

SL-LX15x Customisation

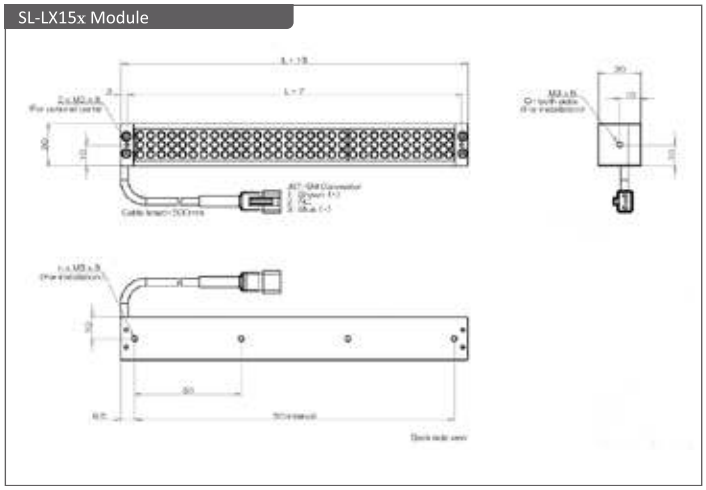
SL-[L]X15[x]

Emitting surface — LED Color

L (Emitting surface) - Customise up to a maximum length of 1000mm

x (LED Color) - Choice of Red, Green, Blue, White or IR940nm

SL-LX15x Module



Part Number	L	n	Power Consumption [W] x = W	Power Consumption [W] x = R, G, B & IR
SL-350X15x	350	8	18	11
SL-400X15x	400	9	21	13
SL-450X15x	450	10	24	14
SL-500X15x	500	11	26	16
SL-550X15x	550	12	28	17
SL-600X15x	600	13	31	19
SL-650X15x	650	14	33	20
SL-700X15x	700	15	36	22
SL-750X15x	750	16	38	23
SL-800X15x	800	17	41	25
SL-850X15x	850	18	43	26
SL-900X15x	900	19	46	28
SL-950X15x	950	20	48	29
SL-1000X15x	1000	21	51	31

n = No. of mounting holes

SL-LX30x Customisation

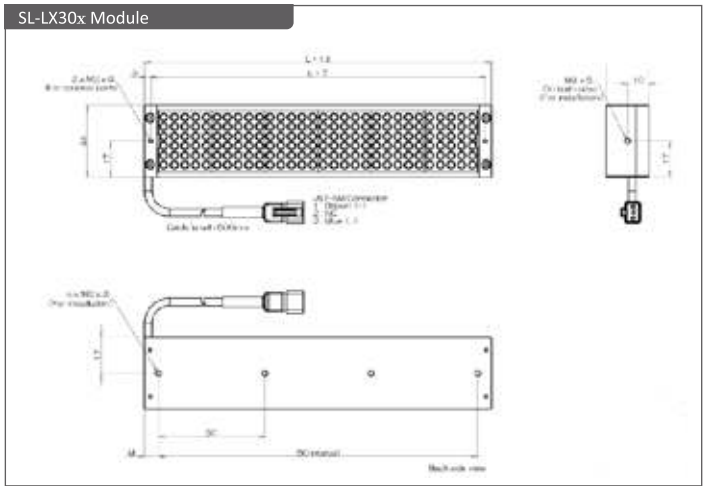
SL-[L]X30[x]

Emitting surface — LED Color

L (Emitting surface) - Customise up to a maximum length of 1000mm

x (LED Color) - Choice of Red, Green, Blue, White or IR940nm

SL-LX30x Module

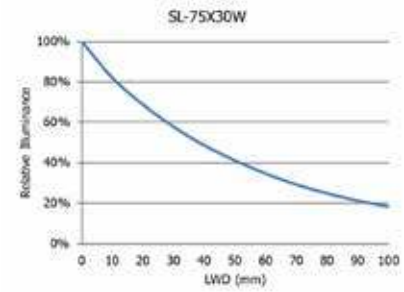


Part Number	L	M	n	Power Consumption [W] x = W	Power Consumption [W] x = R, G, B & IR
SL-50X30x	50	6.5	2	4.1	3.1
SL-125X30x	125	19	3	11	7.6
SL-175X30x	175	19	4	15	11
SL-225X30x	225	19	5	19	14
SL-250X30x	250	6.5	6	21	16
SL-275X30x	275	19	6	23	17
SL-325X30x	325	19	7	27	20
SL-350X30x	350	6.5	8	29	22
SL-375X30x	375	19	8	31	23
SL-400X30x	400	6.5	9	33	25
SL-425X30x	425	19	9	35	26
SL-450X30x	450	6.5	10	37	28
SL-475X30x	475	19	10	39	29
SL-500X30x	500	6.5	11	41	31

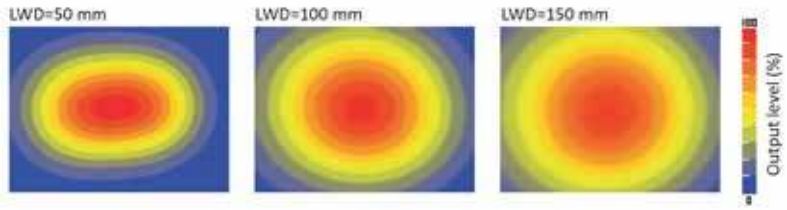
n = No. of mounting holes

Technical Data (SL-75X30W)

Illuminance Graph (Relative Illuminance)



Uniformity Data



SR Series



Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption (W)	Option	Dimension
SR-32x	SR-32R	Red	630nm	1.6	Diffuser Polarizer Adapter	Fig. 1
	SR-32G	Green	525nm			
	SR-32B	Blue	470nm			
	SR-32IR	Infrared	940nm			
	SR-32W	White	5,500k	2.6		
SR-42x	SR-42R	Red	630nm	2.2		Fig. 2
	SR-42G	Green	525nm			
	SR-42B	Blue	470nm			
	SR-42IR	Infrared	940nm			
	SR-42W	White	5,500k	3.2		
SR-50x	SR-50R	Red	630nm	3.1		Fig. 3
	SR-50G	Green	525nm			
	SR-50B	Blue	470nm			
	SR-50IR	Infrared	940nm			
	SR-50W	White	5,500k	4.7		
SR-70x	SR-70R	Red	630nm	5.8		Fig. 4
	SR-70G	Green	525nm			
	SR-70B	Blue	470nm			
	SR-70IR	Infrared	940nm			
	SR-70W	White	5,500k	7.8		
SR-90x	SR-90R	Red	630nm	11		Fig. 5
	SR-90G	Green	525nm			
	SR-90B	Blue	470nm			
	SR-90IR	Infrared	940nm			
	SR-90W	White	5,500k	13		

Options

Diffuser

Part Number	Applicable Light Unit
DF-SR-32	SR-32x
DF-SR-42	SR-42x
DF-SR-50	SR-50x
DF-SR-70	SR-70x
DF-SR-90	SR-90x

Polarizer

Part Number	Applicable Light Unit
PL-SR-32	SR-32x
PL-SR-42	SR-42x
PL-SR-50	SR-50x
PL-SR-70	SR-70x
PL-SR-90	SR-90x

Adapter

Part Number	Applicable Light Unit
AD-SR-32	SR-32x
AD-SR-42	SR-42x
AD-SR-50	SR-50x
AD-SR-70	SR-70x
AD-SR-90	SR-90x

Note: Adapters for securing diffuser and polarizer onto lighting are sold seperately.

Dimension (in mm)

Fig. 1 (SR-32x)

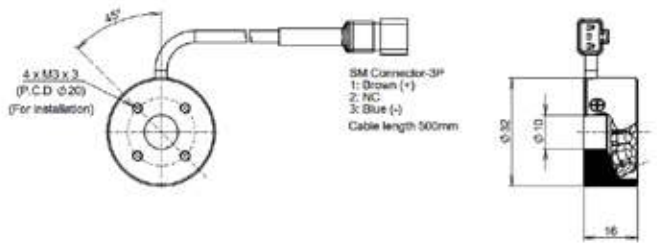


Fig. 2 (SR-42x)

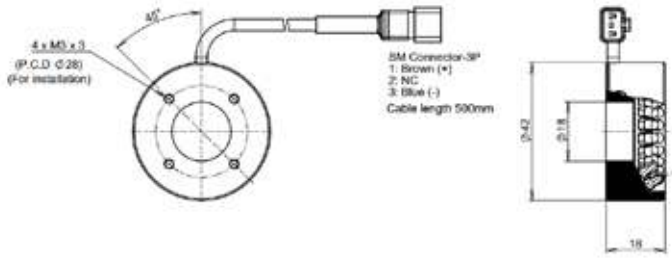


Fig. 3 (SR-50x)

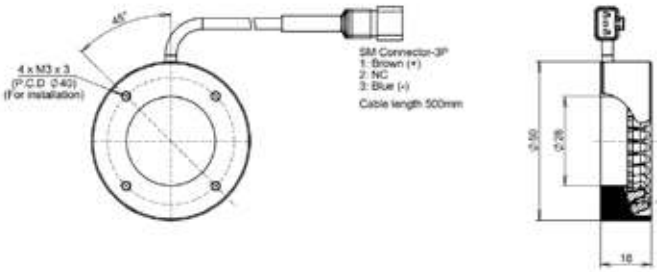


Fig. 4 (SR-70x)

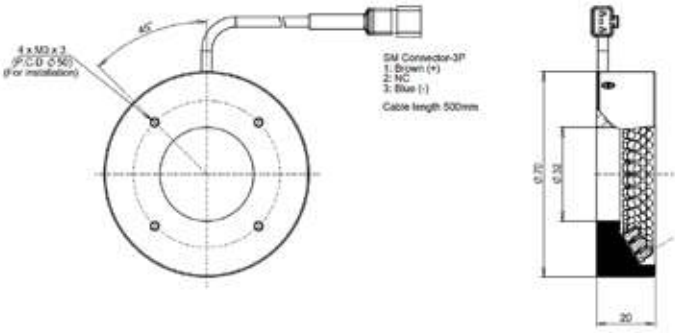
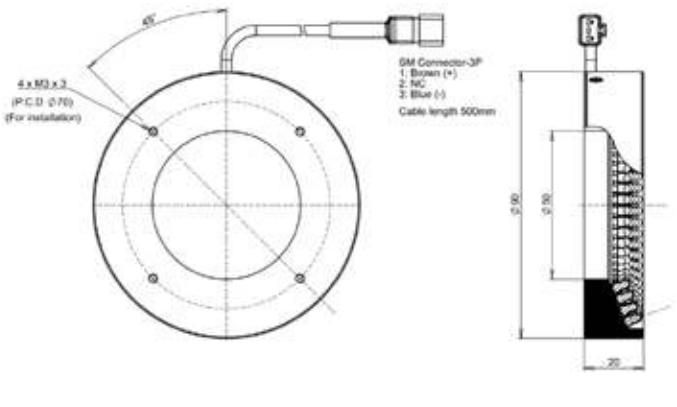
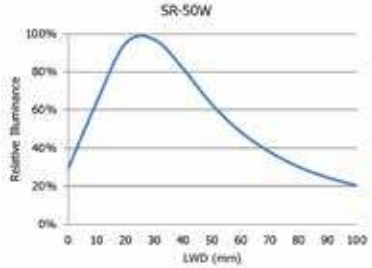


Fig. 5 (SR-90x)

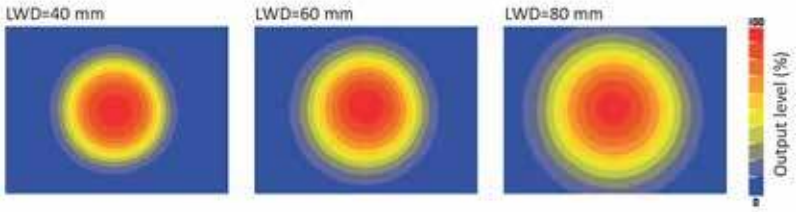


Technical Data (SR-50W)

Illuminance Graph (Relative Illuminance)



Uniformity Data



SRL Series



Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption (W)	Option	Dimension
SRL-74x	SRL-74R	Red	630nm	4.6	Diffuser	Fig. 1
	SRL-74G	Green	525nm			
	SRL-74B	Blue	470nm			
	SRL-74IR	Infrared	940nm			
	SRL-74W	White	5,500k	7.8		
SRL-100x	SRL-100R	Red	630nm	9.1		Fig. 2
	SRL-100G	Green	525nm			
	SRL-100B	Blue	470nm			
	SRL-100IR	Infrared	940nm			
	SRL-100W	White	5,500k	16		
SRL-132x	SRL-132R	Red	630nm	13		Fig. 3
	SRL-132G	Green	525nm			
	SRL-132B	Blue	470nm			
	SRL-132IR	Infrared	940nm			
	SRL-132W	White	5,500k	20		
SRL-208x	SRL-208R	Red	630nm	22		Fig. 4
	SRL-208G	Green	525nm			
	SRL-208B	Blue	470nm			
	SRL-208IR	Infrared	940nm			
	SRL-208W	White	5,500k	33		

Options

Diffuser

Part Number	Applicable Light Unit
DF-SRL-74	SRL-74x
DF-SRL-100	SRL-100x
DF-SRL-132	SRL-132x
DF-SRL-208	SRL-208x

Dimension (in mm)

Fig. 1 (SRL-74x)

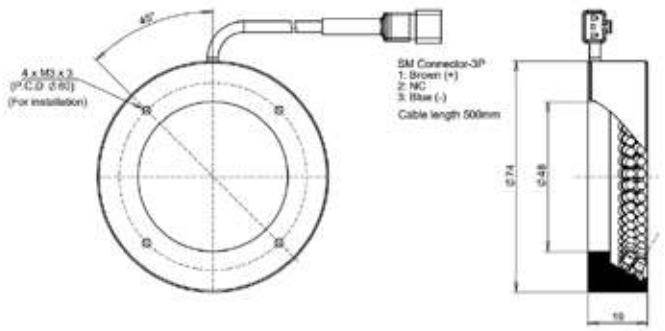


Fig. 2 (SRL-100x)

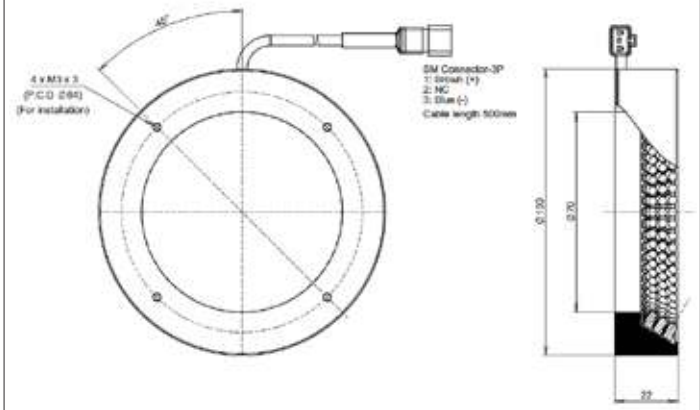


Fig. 3 (SRL-132x)

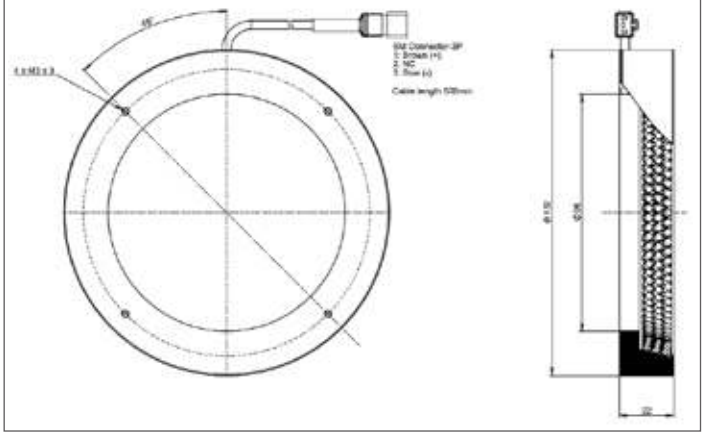
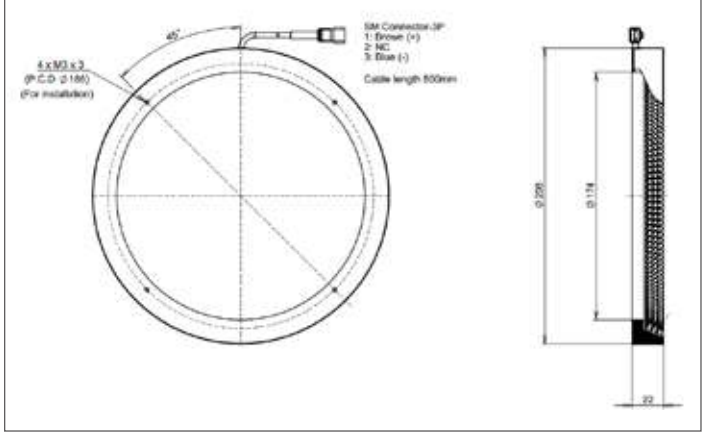
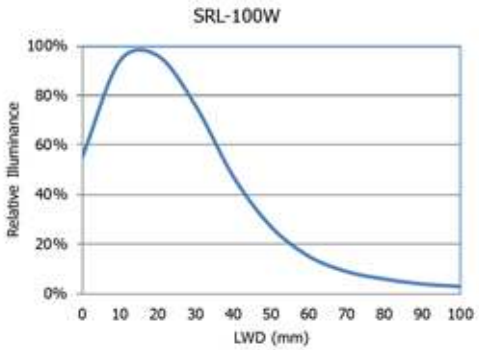


Fig. 4 (SRL-208x)

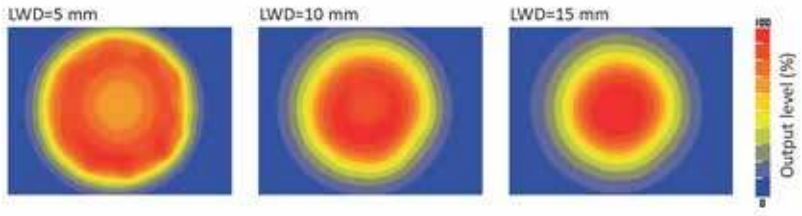


Technical Data (SRL-100W)

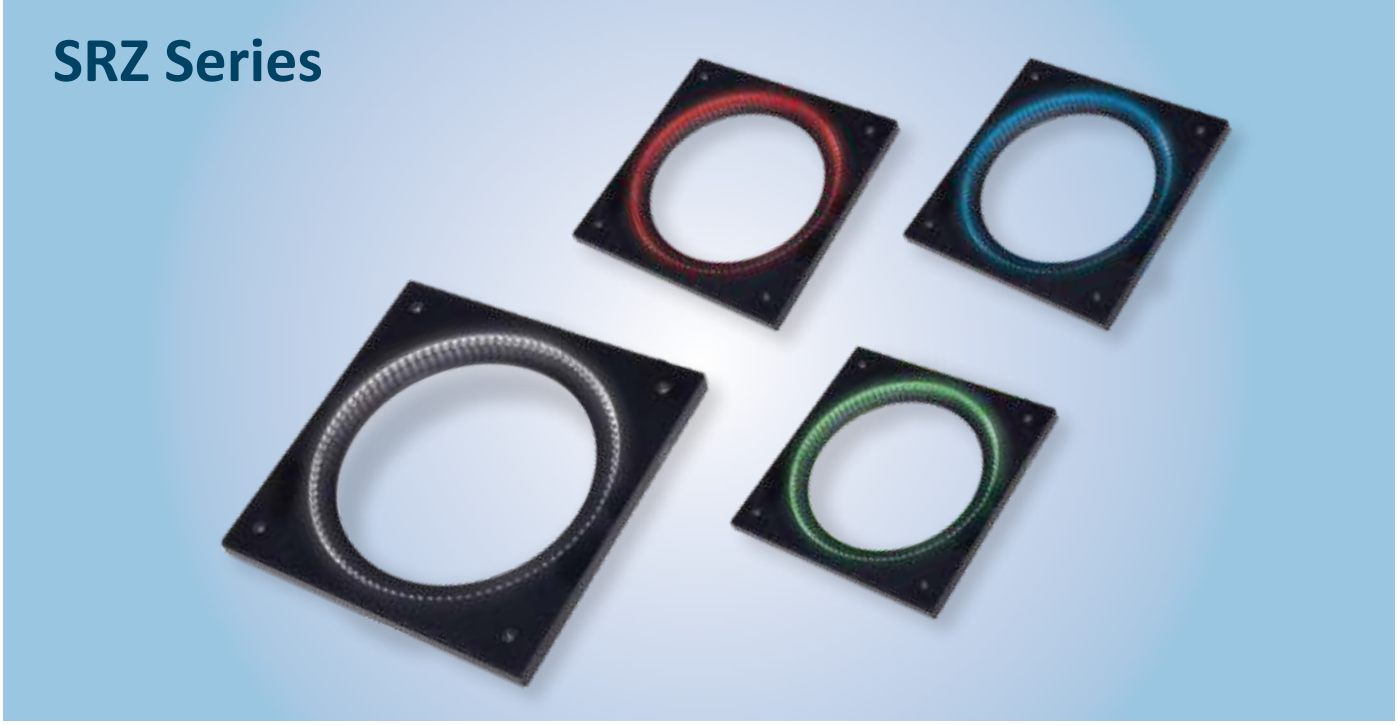
Illuminance Graph (Relative Illuminance)



Uniformity Data



SRZ Series



Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max.Power Consumption (W)	Option	Dimension
SRZ-75x	SRZ-75R	Red	630nm	2.6	N/A	Fig. 1
	SRZ-75G	Green	525nm			
	SRZ-75B	Blue	470nm			
	SRZ-75W	White	5,500k	4.3		
SRZ-90x	SRZ-90R	Red	630nm	3.1		Fig. 2
	SRZ-90G	Green	525nm			
	SRZ-90B	Blue	470nm			
	SRZ-90W	White	5,500k	5.2		
SRZ-138x	SRZ-138R	Red	630nm	5.1		Fig. 3
	SRZ-138G	Green	525nm			
	SRZ-138B	Blue	470nm			
	SRZ-138W	White	5,500k	8.6		

Dimension (in mm)

Fig. 1 (SRZ-75x)

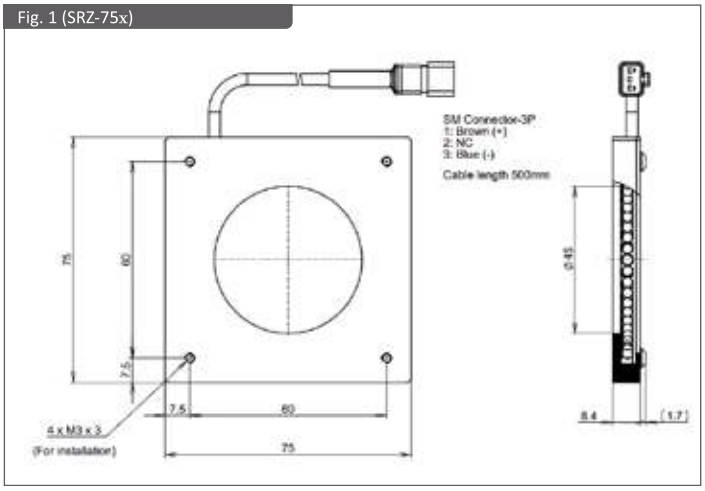


Fig. 2 (SRZ-90x)

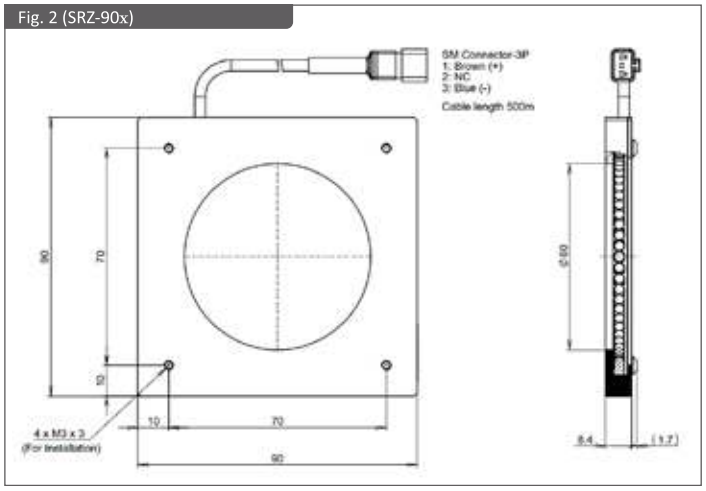
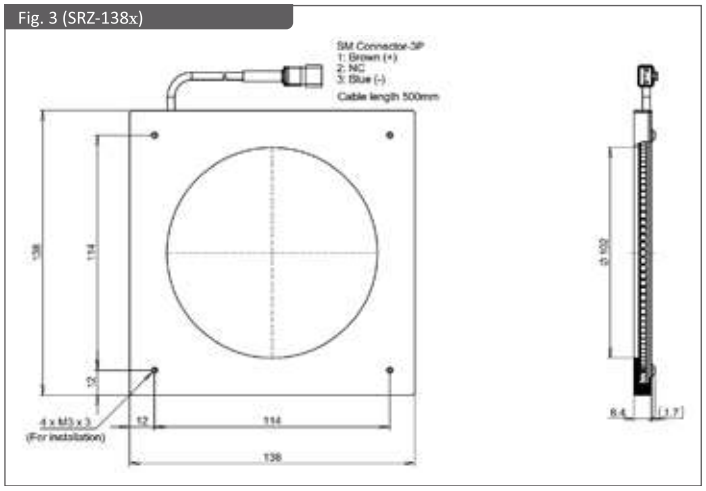
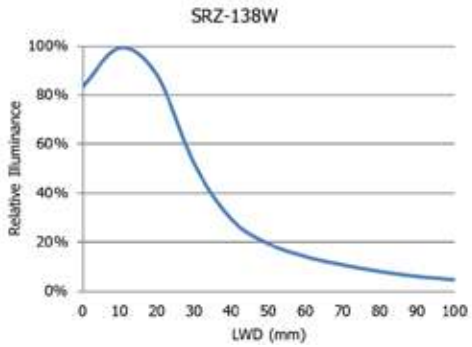


Fig. 3 (SRZ-138x)

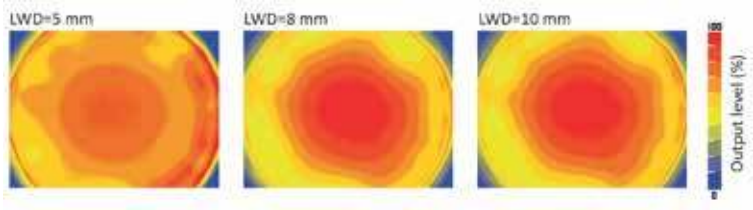


Technical Data (SRZ-138W)

Illuminance Graph (Relative Illuminance)



Uniformity Data



SRQ Series



Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption (W)	Option	Dimension
SRQ-56x	SRQ-56R	Red	630nm	3.1	Diffuser Polarizer	Fig. 1
	SRQ-56G	Green	525nm			
	SRQ-56B	Blue	470nm			
	SRQ-56IR	Infrared	940nm			
	SRQ-56W	White	5,500k	5.6		
SRQ-70x	SRQ-70R	Red	630nm	6.1		Fig. 2
	SRQ-70G	Green	525nm			
	SRQ-70B	Blue	470nm			
	SRQ-70IR	Infrared	940nm			
	SRQ-70W	White	5,500k	11		

Options

Diffuser

Part Number	Applicable Light Unit
DF-SRQ-56	SRQ-56x
DF-SRQ-70	SRQ-70x

Polarizer

Part Number	Applicable Light Unit
PL-SRQ-56	SRQ-56x
PL-SRQ-70	SRQ-70x

Dimension (in mm)

Fig. 1 (SRQ-56x)

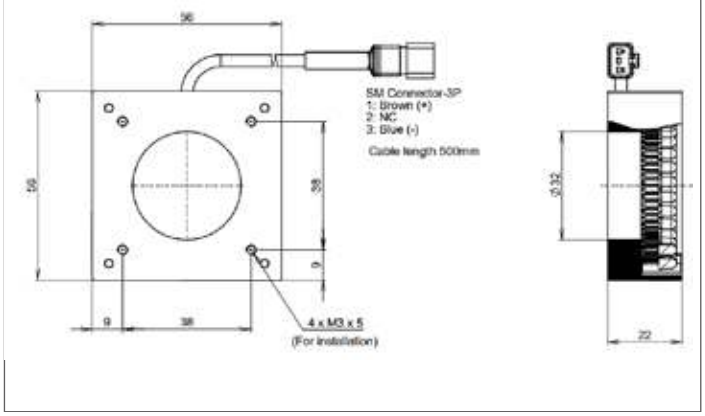
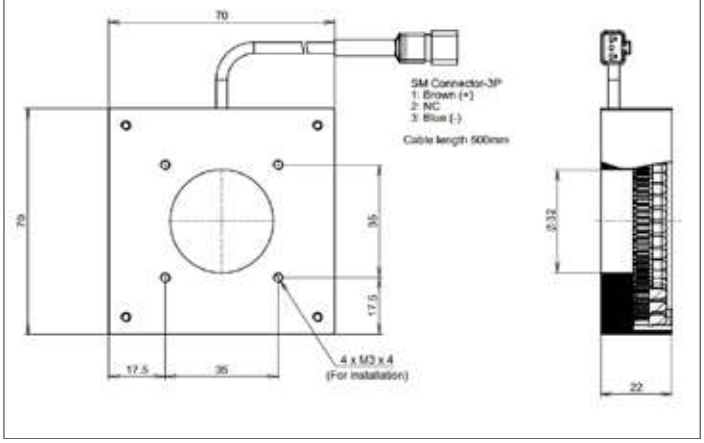
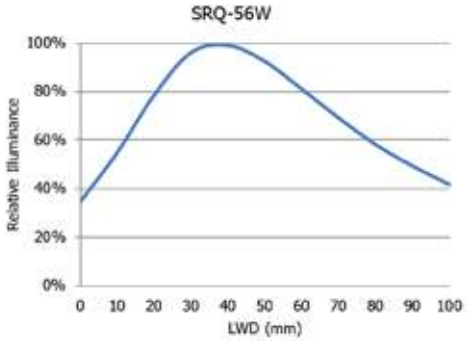


Fig. 2 (SRQ-70x)

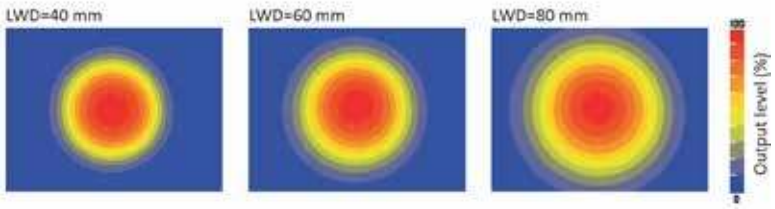


Technical Data (SRQ-56W)

Illuminance Graph (Relative Illuminance)



Uniformity Data



SOAD Series



Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption (W)	Option	Dimension
SOAD-34x	SOAD-34R	Red	635nm	3.2	N/A	Fig. 1
	SOAD-34G	Green	525nm			
	SOAD-34B	Blue	470nm			
	SOAD-34W	White	6,000k	5.3		
SOAD-50x	SOAD-50R	Red	630nm	8.1		Fig. 2
	SOAD-50G	Green	525nm			
	SOAD-50B	Blue	470nm			
	SOAD-50IR	Infrared	940nm			
	SOAD-50W	White	5,500k	13		
SOAD-70x	SOAD-70R	Red	630nm	13		Fig. 3
	SOAD-70G	Green	525nm			
	SOAD-70B	Blue	470nm			
	SOAD-70IR	Infrared	940nm			
	SOAD-70W	White	5,500k	21		
SOAD-100x	SOAD-100R	Red	630nm	22		Fig. 4
	SOAD-100G	Green	525nm			
	SOAD-100B	Blue	470nm			
	SOAD-100IR	Infrared	940nm			
	SOAD-100W	White	5,500k	36		

Dimension (in mm)

Fig. 1 (SOAD-34x)

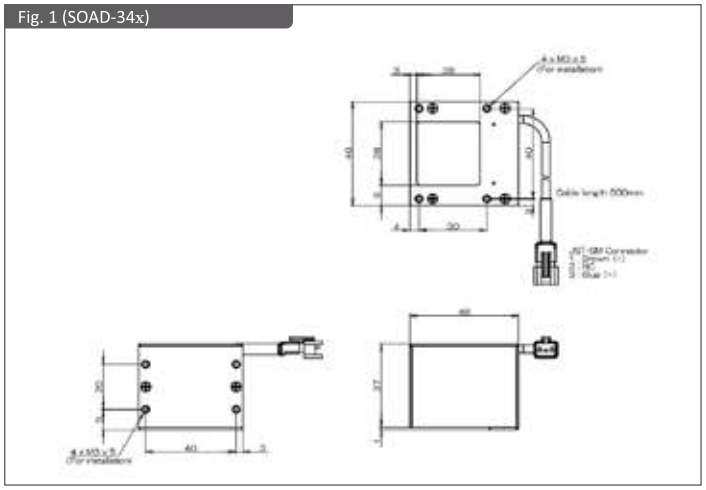


Fig. 2 (SOAD-50x)

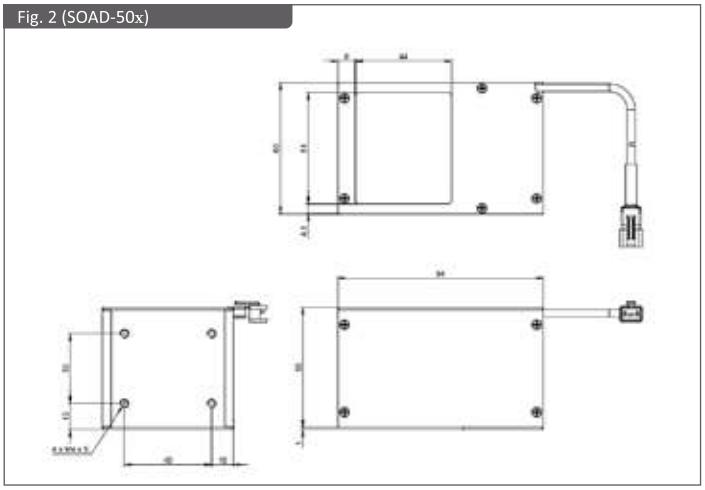


Fig. 3 (SOAD-70x)

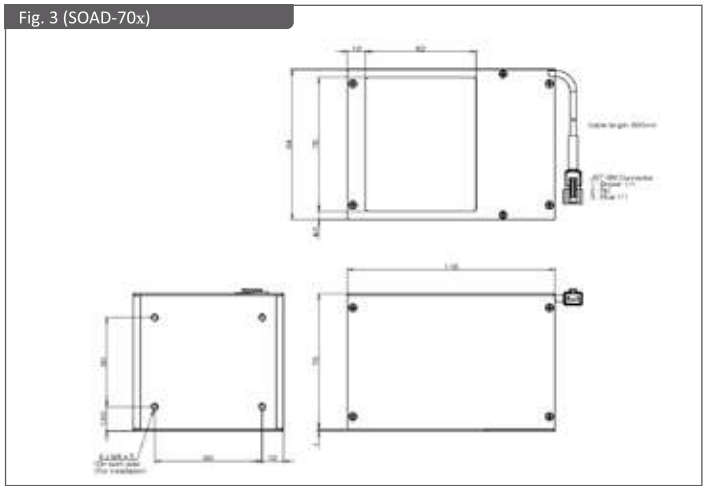
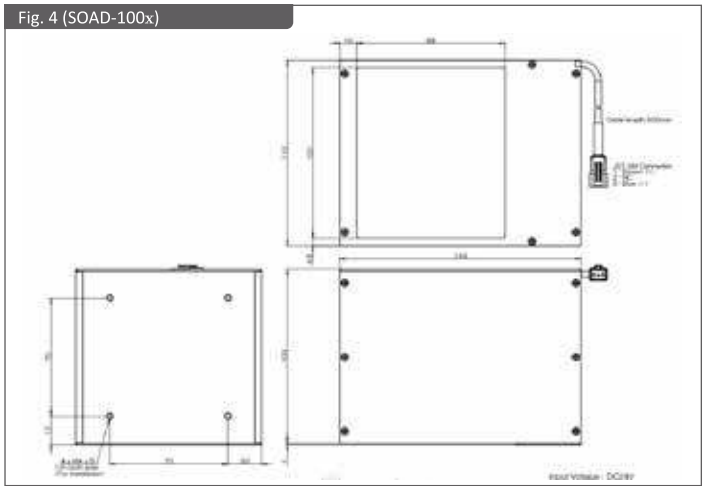
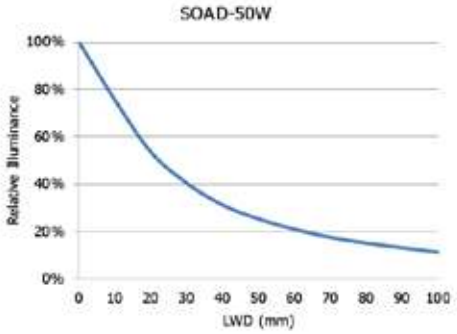


Fig. 4 (SOAD-100x)

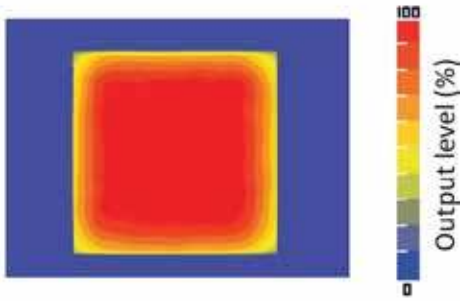


Technical Data (SOAD-50W)

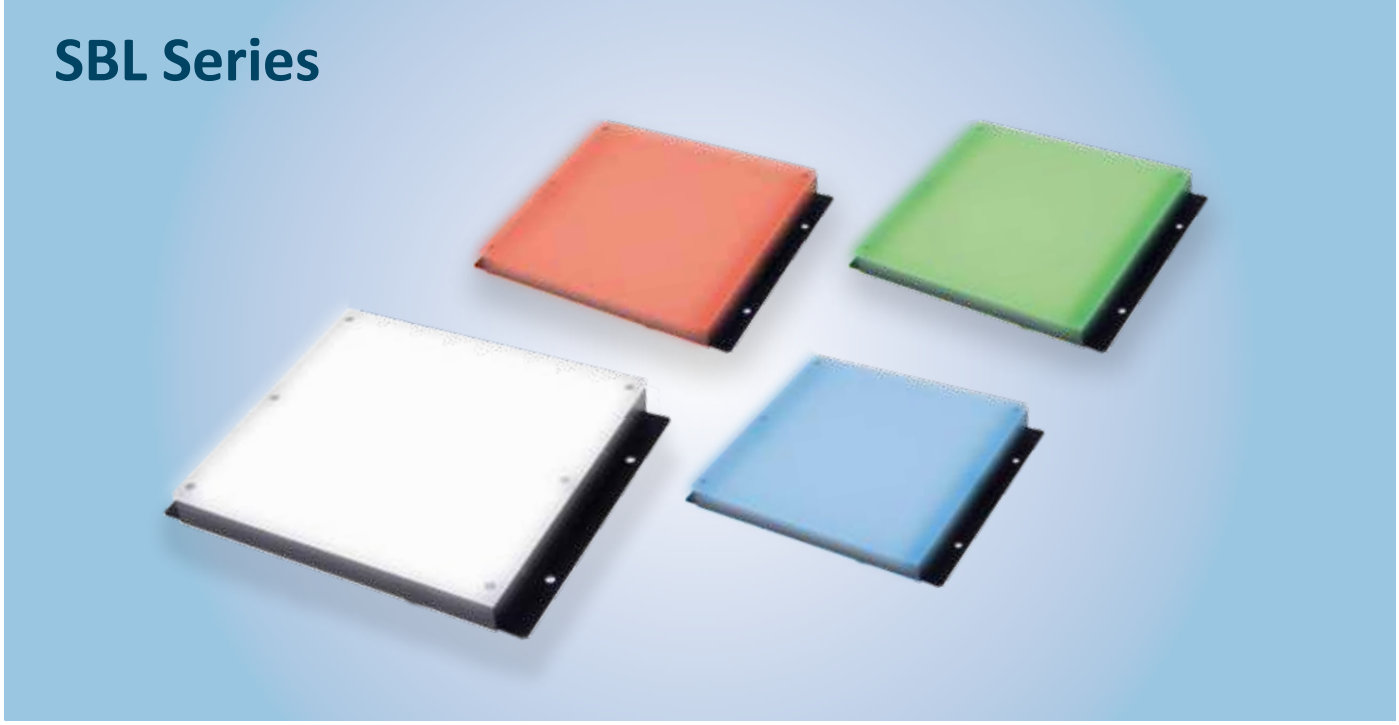
Illuminance Graph (Relative Illuminance)



Uniformity Data



SBL Series



Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption (W)	Option	Dimension
SBL-30X30x	SBL-30X30R	Red	635nm	1.6	N/A	Fig. 1
	SBL-30X30G	Green	525nm			
	SBL-30X30B	Blue	470nm			
	SBL-30X30W	White	6,000k			
SBL-60X60x	SBL-60X60R	Red	635nm	6.1		Fig. 2
	SBL-60X60G	Green	525nm			
	SBL-60X60B	Blue	470nm			
	SBL-60X60W	White	6,000k			
SBL-120X120x	SBL-120X120R	Red	635nm	20		Fig. 3
	SBL-120X120G	Green	525nm			
	SBL-120X120B	Blue	470nm			
	SBL-120X120W	White	6,000k			
SBL-180X180x	SBL-180X180R	Red	635nm	44		Fig. 4
	SBL-180X180G	Green	525nm			
	SBL-180X180B	Blue	470nm			
	SBL-180X180W	White	6,000k			

Dimension (in mm)

Fig. 1 (SBL-30X30x)

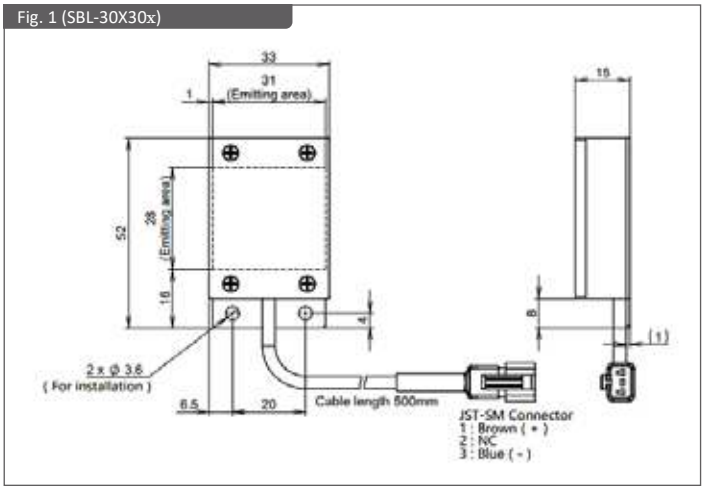
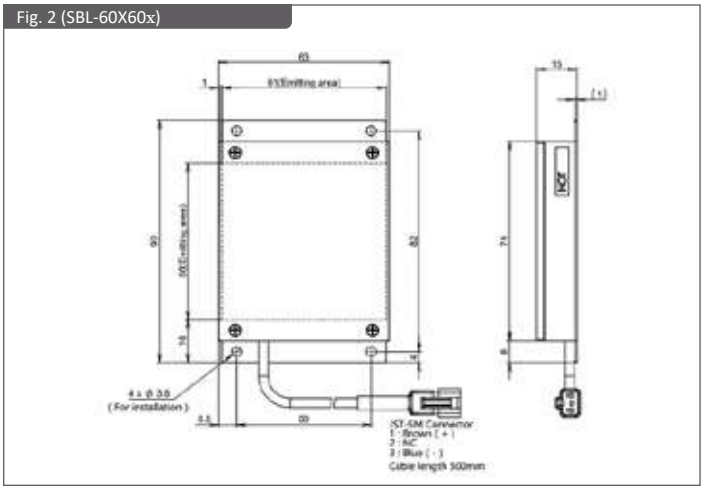


Fig. 2 (SBL-60X60x)



Dimension (in mm)

Fig. 3 (SBL-120X120x)

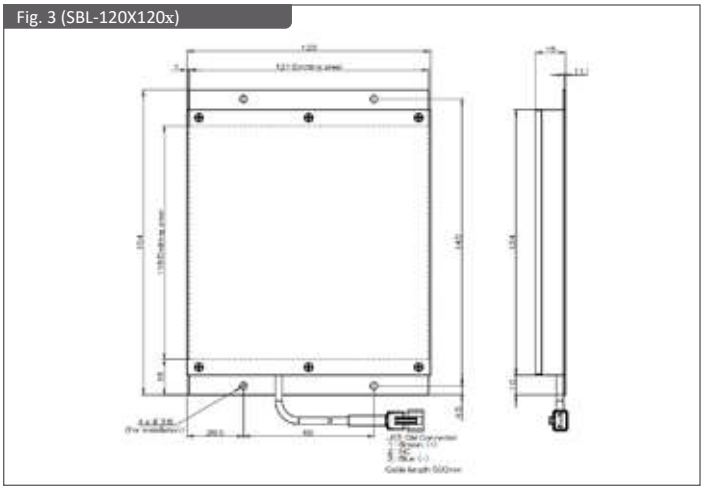
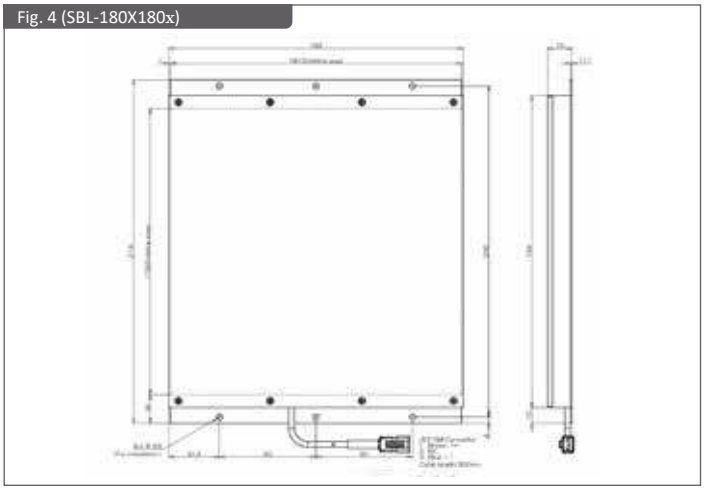
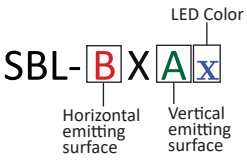


Fig. 4 (SBL-180X180x)



Semi-Customisation

SBL-BXAx Customisation

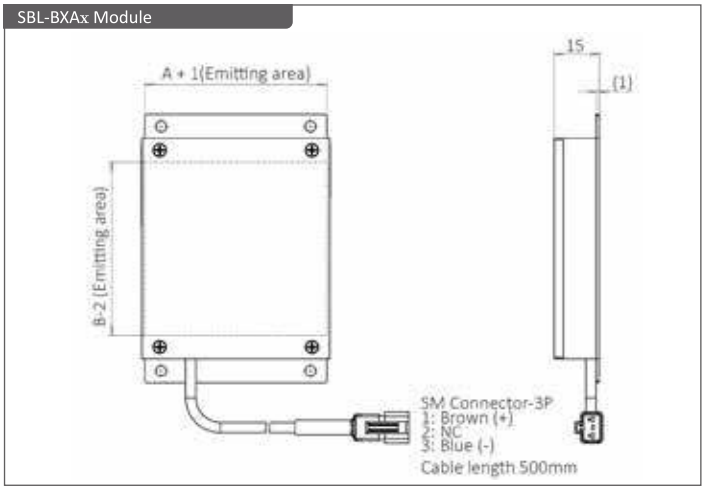


A (Vertical emitting surface) - Customise up to a maximum length of 150mm

B (Horizontal emitting surface) - Customise up to a maximum length of 180mm

X (LED Color) - Choice of Red, Green, Blue or White

SBL-BXAx Module

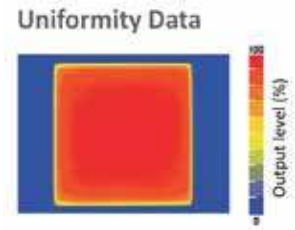


Part Number	A	B	Power Consumption[W]
SBL-30X60x	60	30	3.1
SBL-30X90x	90	30	4.6
SBL-30X120x	120	30	6.1
SBL-30X150x	150	30	7.6
SBL-30X180x	180	30	10
SBL-60X30x	30	60	3.1
SBL-60X90x	90	60	9.1
SBL-60X120x	120	60	13
SBL-60X150x	150	60	16
SBL-60X180x	180	60	19
SBL-90X30x	20	90	4.6
SBL-90X60x	60	90	9.1
SBL-90X90x	90	90	14
SBL-90X120x	120	90	19
SBL-90X150x	150	90	23
SBL-120X30x	30	120	6.1
SBL-120X60x	60	120	13
SBL-120X90x	90	120	19
SBL-120X150x	150	120	25
SBL-120X180x	180	120	30
SBL-150X30x	30	150	7.6
SBL-150X60x	60	150	16
SBL-150X90x	90	150	23
SBL-150X120x	120	150	25
SBL-150X150x	150	150	31
SBL-150X180x	180	150	37
SBL-180X30x	30	180	10
SBL-180X60x	60	180	19
SBL-180X90x	90	180	28
SBL-180X120x	120	180	30
SBL-180X150x	150	180	37

Note: Emitting areas are in multiples of 30. For more information, please contact our sales representative.

Technical Data (SBL-120X120W)

Uniformity Data



SPL Series



Product Line up

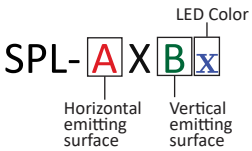
Series	Part Number	Color	Wavelength/ Color Temp.	Max. Power Consumption (W)	Option	Dimension
SPL-200X200x	SPL-200X200R	Red	635nm	31	N/A	Fig. 1
	SPL-200X200G	Green	525nm			
	SPL-200X200B	Blue	470nm			
	SPL-200X200W	White	6,000k			
SPL-300X300x	SPL-300X300R	Red	635nm	46		Fig. 2
	SPL-300X300G	Green	525nm			
	SPL-300X300B	Blue	470nm			
	SPL-300X300W	White	6,000k			
SPL-400X400x	SPL-400X400R	Red	635nm	61		Fig. 3
	SPL-400X400G	Green	525nm			
	SPL-400X400B	Blue	470nm			
	SPL-400X400W	White	6,000k			
SPL-500X400x	SPL-500X400R	Red	635nm	76		Fig. 4
	SPL-500X400G	Green	525nm			
	SPL-500X400B	Blue	470nm			
	SPL-500X400W	White	6,000k			
SPL-600X400x	SPL-600X400R	Red	635nm	91		Fig. 5
	SPL-600X400G	Green	525nm			
	SPL-600X400B	Blue	470nm			
	SPL-600X400W	White	6,000k			

Product Line up

Series	Part Number	Color	Wavelength/ Color Temp.	Power Consumption (W)	Option	Dimension
SPL-200X200x-C40	SPL-200X200R-C40	Red	635nm	31	N/A	Fig. 6
	SPL-200X200G-C40	Green	525nm			
	SPL-200X200B-C40	Blue	470nm			
	SPL-200X200W-C40	White	6,000k			
SPL-300X300x-C40	SPL-300X300R-C40	Red	635nm	46		Fig. 7
	SPL-300X300G-C40	Green	525nm			
	SPL-300X300B-C40	Blue	470nm			
	SPL-300X300W-C40	White	6,000k			
SPL-400X400x-C40	SPL-400X400R-C40	Red	635nm	61		Fig. 8
	SPL-400X400G-C40	Green	525nm			
	SPL-400X400B-C40	Blue	470nm			
	SPL-400X400W-C40	White	6,000k			
SPL-500X400x-C40	SPL-500X400R-C40	Red	635nm	76		Fig. 9
	SPL-500X400G-C40	Green	525nm			
	SPL-500X400B-C40	Blue	470nm			
	SPL-500X400W-C40	White	6,000k			
SPL-600X400x-C40	SPL-600X400R-C40	Red	635nm	91		Fig. 10
	SPL-600X400G-C40	Green	525nm			
	SPL-600X400B-C40	Blue	470nm			
	SPL-600X400W-C40	White	6,000k			

Semi-Customisation

SPL-AXBx Customisation

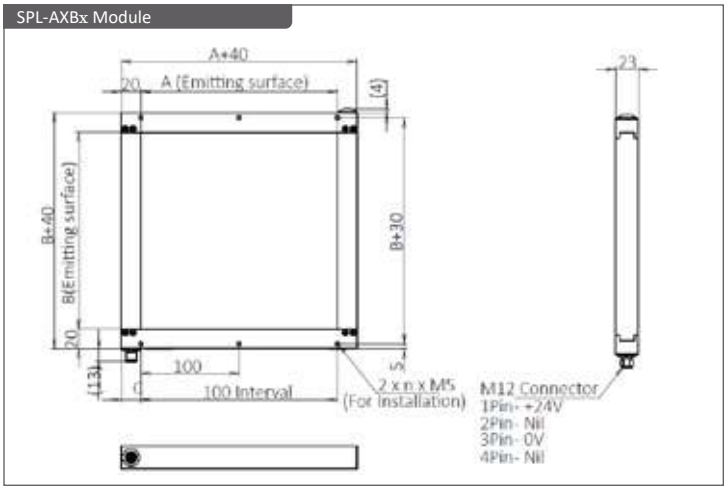


A (Vertical emitting surface) - Customise up to a maximum length of 150mm

B (Horizontal emitting surface) - Customise up to a maximum length of 180mm

X (LED Color) - Choice of Red, Green, Blue or White

SPL-AXBx Module



Part Number	A	B	C	n	Power Consumption[W]
SPL-250X200x	250	200	45	3	38
SPL-300X200x	300	200	20	4	46
SPL-350X200x	350	200	45	4	53
SPL-400X200x	400	200	20	5	61
SPL-450X200x	450	200	45	5	69
SPL-500X200x	500	200	20	6	76
SPL-550X200x	550	200	45	6	84
SPL-600X200x	600	200	20	7	91
SPL-250X250x	250	250	45	3	38
SPL-300X250x	300	250	20	4	46
SPL-350X250x	350	250	45	4	53
SPL-400X250x	400	250	20	5	61
SPL-450X250x	450	250	45	5	69
SPL-500X250x	500	250	20	6	76
SPL-550X250x	550	250	45	6	84
SPL-600X250x	600	250	20	7	91
SPL-350X300x	350	300	45	4	53
SPL-400X300x	400	300	20	5	61
SPL-450X300x	450	300	45	5	69
SPL-500X300x	500	300	20	6	76
SPL-550X300x	550	300	45	6	84
SPL-600X300x	600	300	20	7	91
SPL-350X350x	350	350	45	4	53
SPL-400X350x	400	350	20	5	61
SPL-450X350x	450	350	45	5	69
SPL-500X350x	500	350	20	6	76
SPL-550X350x	550	350	45	6	84
SPL-600X350x	600	350	20	7	91
SPL-450X400x	450	400	45	5	69
SPL-550X400x	550	400	45	6	84

n = No. of mounting holes

LAK MACHINE VISION LIGHTING

SPL SERIES

Semi-Customisation

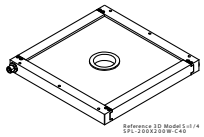
SPL-AXBx-C40 Customisation

LED Color

SPL-[A]X[B][x]-C40

Horizontal emitting surface

Vertical emitting surface

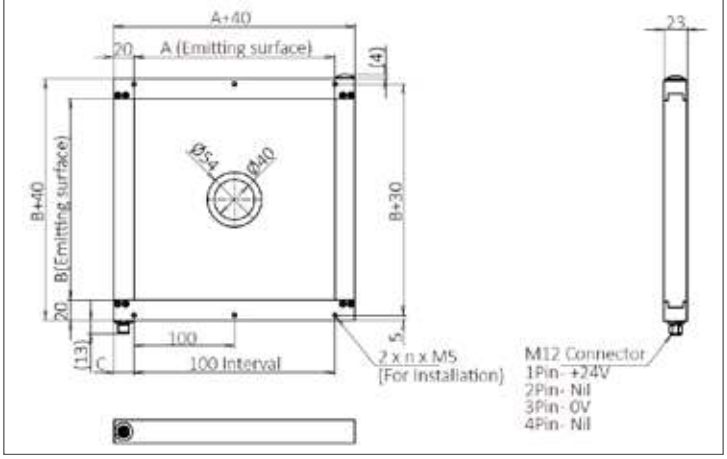


A (Vertical emitting surface) - Customise up to a maximum length of 150mm

B (Horizontal emitting surface) - Customise up to a maximum length of 180mm

X (LED Color) - Choice of Red, Green, Blue or White

SPL-AXBx-C40 Module



Part Number	A	B	C	n	Power Consumption[W]
SPL-250X200x-C40	250	200	45	3	38
SPL-300X200x-C40	300	200	20	4	46
SPL-350X200x-C40	350	200	45	4	53
SPL-400X200x-C40	400	200	20	5	61
SPL-450X200x-C40	450	200	45	5	69
SPL-500X200x-C40	500	200	20	6	76
SPL-550X200x-C40	550	200	45	6	84
SPL-600X200x-C40	600	200	20	7	91
SPL-250X250x-C40	250	250	45	3	38
SPL-300X250x-C40	300	250	20	4	46
SPL-350X250x-C40	350	250	45	4	53
SPL-400X250x-C40	400	250	20	5	61
SPL-450X250x-C40	450	250	45	5	69
SPL-500X250x-C40	500	250	20	6	76
SPL-550X250x-C40	550	250	45	6	84
SPL-600X250x-C40	600	250	20	7	91
SPL-350X300x-C40	350	300	45	4	53
SPL-400X300x-C40	400	300	20	5	61
SPL-450X300x-C40	450	300	45	5	69
SPL-500X300x-C40	500	300	20	6	76
SPL-550X300x-C40	550	300	45	6	84
SPL-600X300x-C40	600	300	20	7	91
SPL-350X350x-C40	350	350	45	4	53
SPL-400X350x-C40	400	350	20	5	61
SPL-450X350x-C40	450	350	45	5	69
SPL-500X350x-C40	500	350	20	6	76
SPL-550X350x-C40	550	350	45	6	84
SPL-600X350x-C40	600	350	20	7	91
SPL-450X400x-C40	450	400	45	5	69
SPL-550X400x-C40	550	400	45	6	84

n = No. of mounting holes

Dimension (in mm)

Fig. 1 (SPL-200X200x)

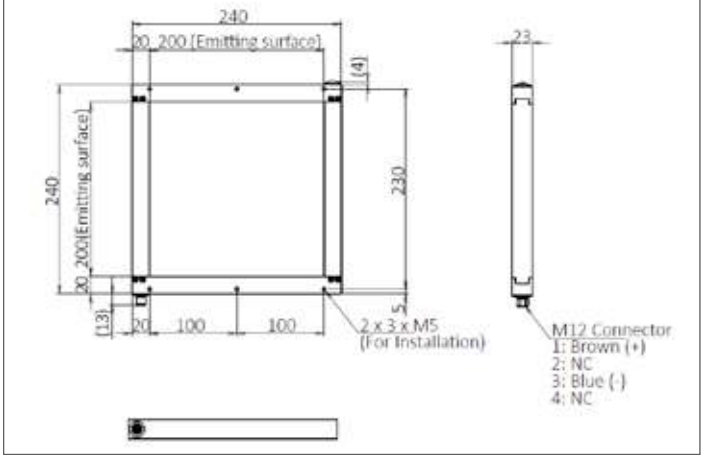


Fig. 2 (SPL-300X300x)

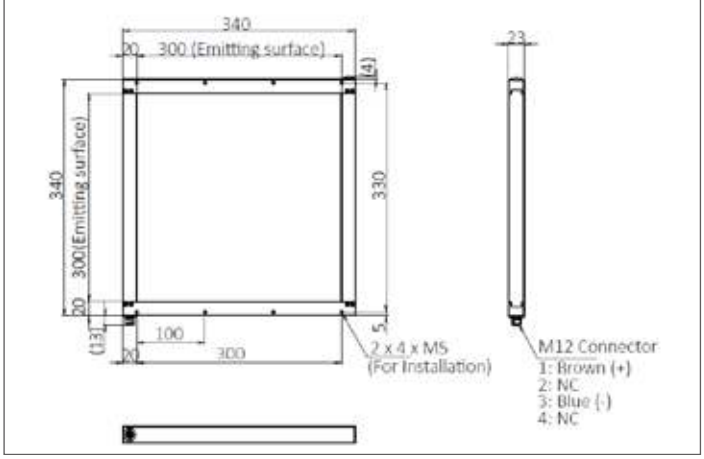


Fig. 3 (SPL-400X400x)

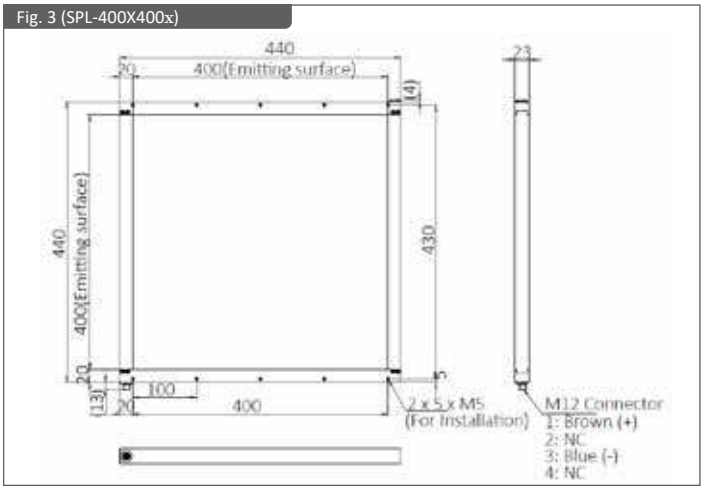
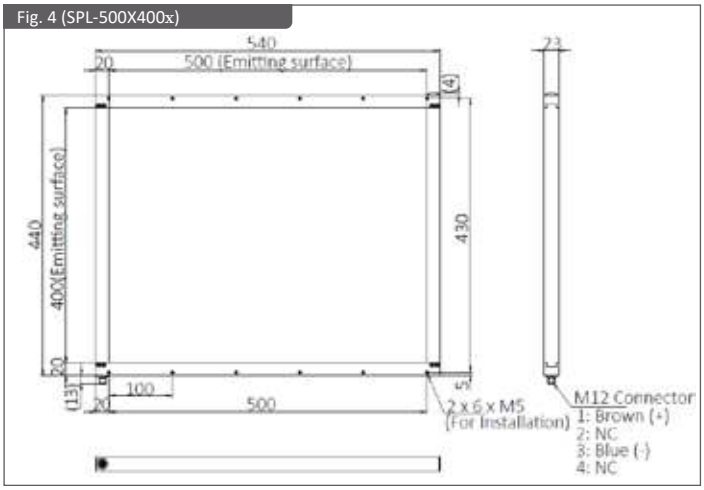


Fig. 4 (SPL-500X400x)



Dimension (in mm)

Fig. 5 (SPL-600x400x)

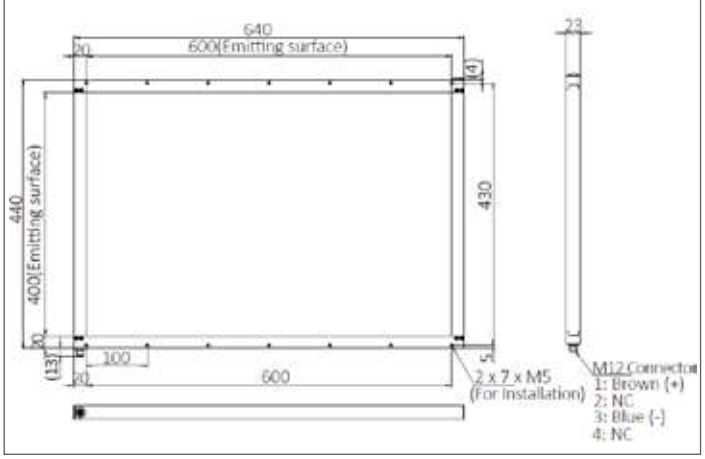


Fig. 6 (SPL-200x200x-C40)

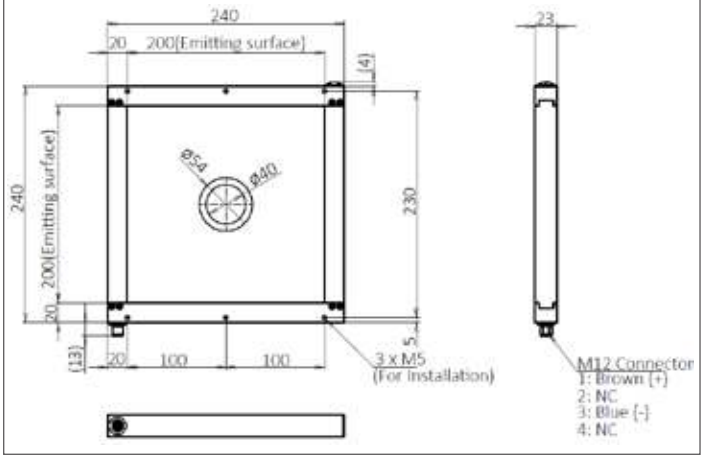


Fig. 7 (SPL-300x300x-C40)

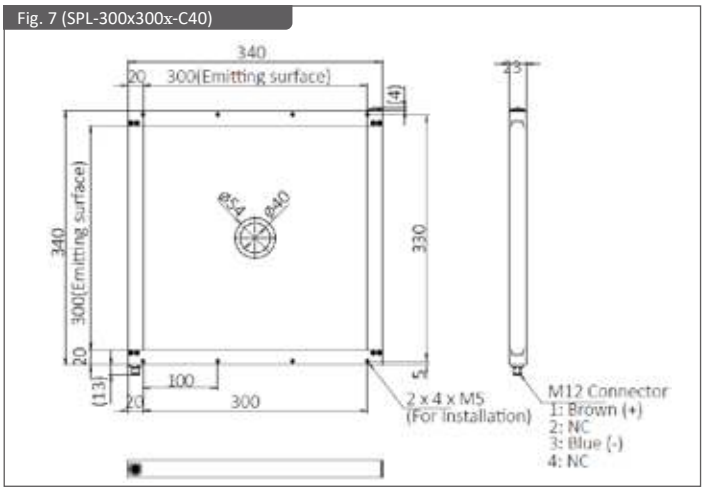


Fig. 8 (SPL-400x400x-C40)

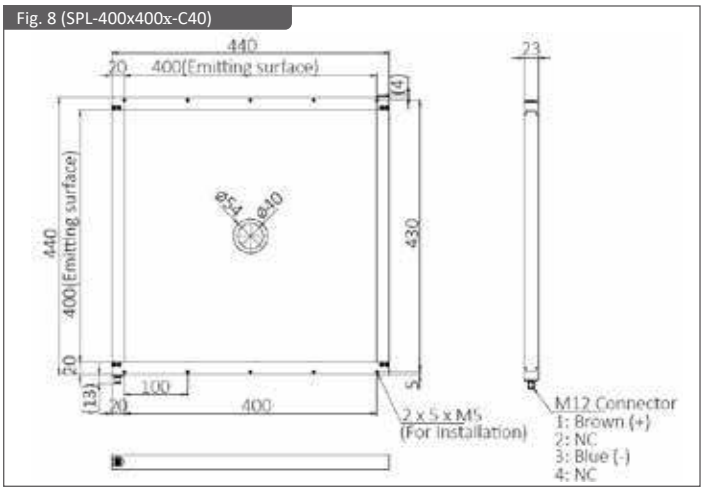


Fig. 9 (SPL-500x400x-C40)

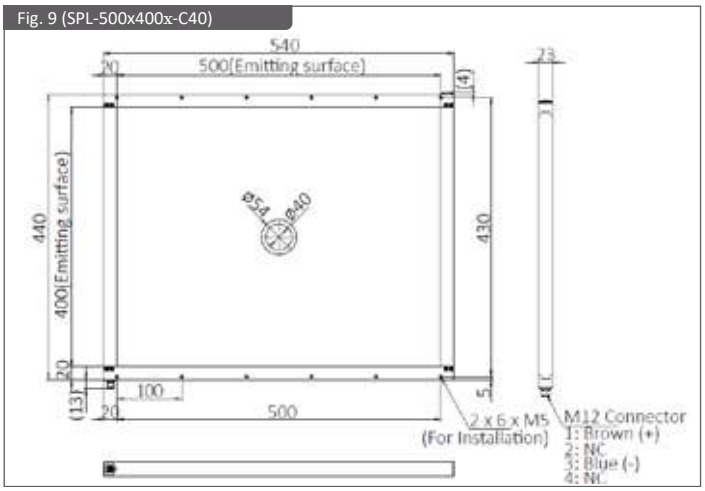
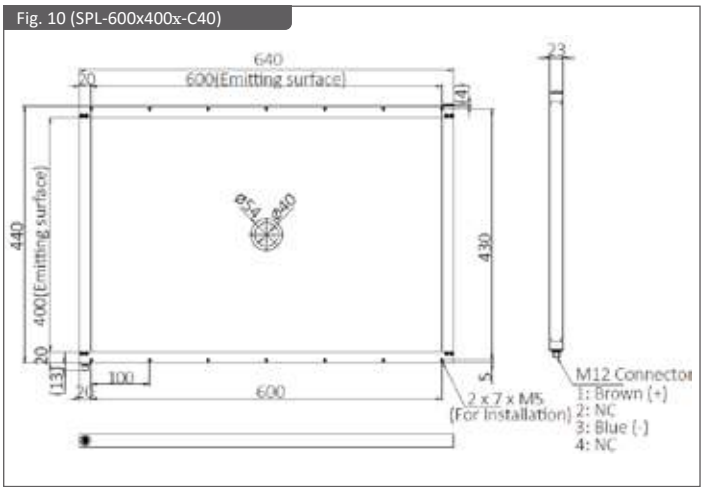
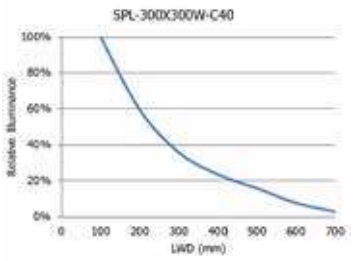


Fig. 10 (SPL-600x400x-C40)

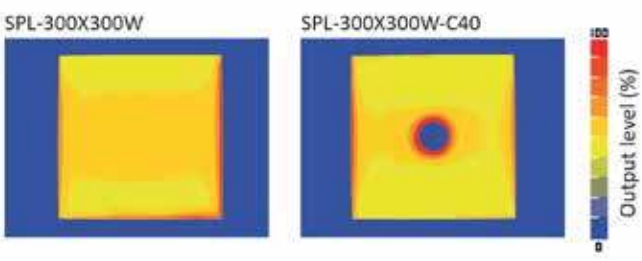


Technical Data (SPL-300X300W)

Illuminance Graph (Relative Illuminance)



Uniformity Data



PSR Series

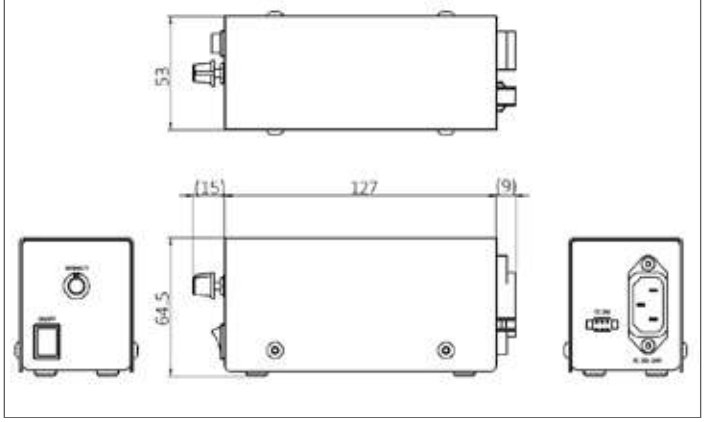


Specifications

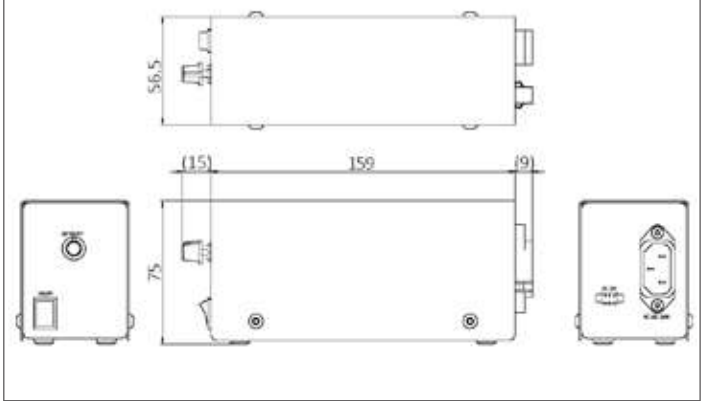
Part Number	PSR-2410/PSR-2410(A)	PSR-2430/PSR-2430(A)	PSR-24100TB/PSR-24100TB(A)
Controller Unit Power Consumption	10W	30W	100W
Output Voltage	DC24V (rated)		
Drive Method	Constant Voltage		
Intensity Setting	Manual		
No. of Channel	1 Channel		
Input Voltage	AC100-240V 50/60Hz		
Operating Temperature and Humidity	Temperature: 0 to 40 degrees Celsius, Humidity: 20 to 85%RH (with no condensation)		
Storage Temperature and Humidity	Temperature: -20 to 60 degrees Celsius, Humidity: 20 to 85%RH (with no condensation)		
Cooling Method	Natural Cooling		

Dimension (in mm)

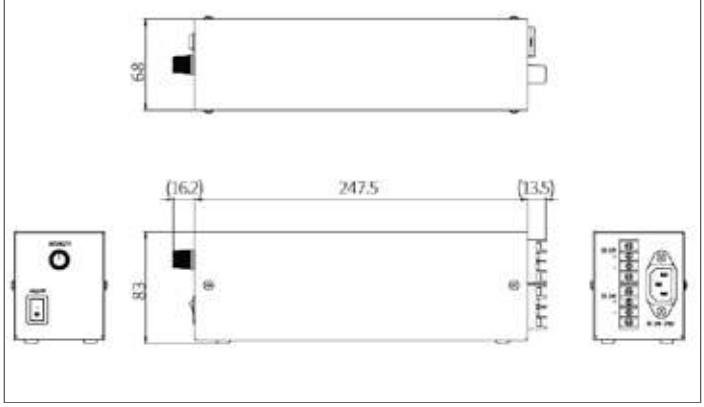
PSR-2410/PSR-2410(A)



PSR-2430/PSR-2430(A)



PSR-24100TB/PSR-24100TB(A)



XC Series

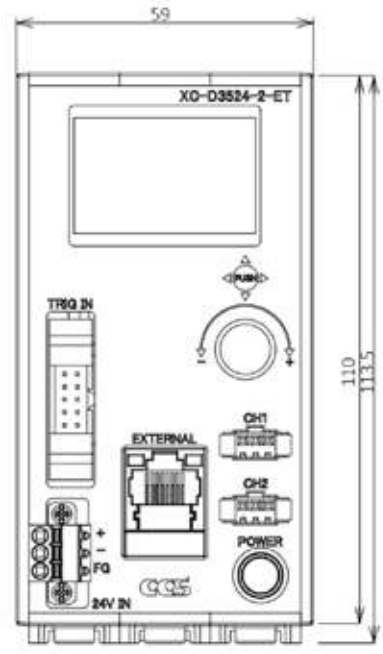


Specifications

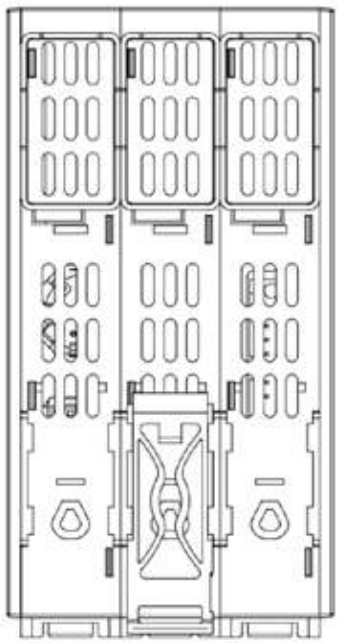
Part Number		XC-D3524-2-ET(A)
Applicable Light Unit (rated)		DC24V 35W (2CH total)
Controller Unit Power Consumption		40W
Output Voltage		DC24V (rated)
Output Current		1.4A (2CH total)
Drive Method		Constant voltage
Intensity Control Method		PWM control (frequency 125.1kHz) and lighting time control
Intensity Setting	Manual	1024-steps using the front operation panel
	External	Command input via TCP/IP or UPD/IP communication (1024-steps)
Lighting Method Setting	Manual	11-steps using the front operation panel
	External	Command input via TCP/IP or UPD/IP communication (11-steps)
No. of Channel		2 Channels
Input Voltage		DC24V (DC21.6 to 26.4V)
Operating Temperature and Humidity		Temperature: 0 to 40 degrees Celsius, Humidity: 20 to 85%RH (with no condensation)
Storage Temperature and Humidity		Temperature: -20 to 60 degrees Celsius, Humidity: 20 to 85%RH (with no condensation)
Cooling Method		Natural cooling
CE Marking		EMC: EN61000-6-2, EN61000-6-4 compliant
Environmental Regulations		RoHS compliant
Weight		250g
Accessories		Operation manual x 1

Dimension (in mm)

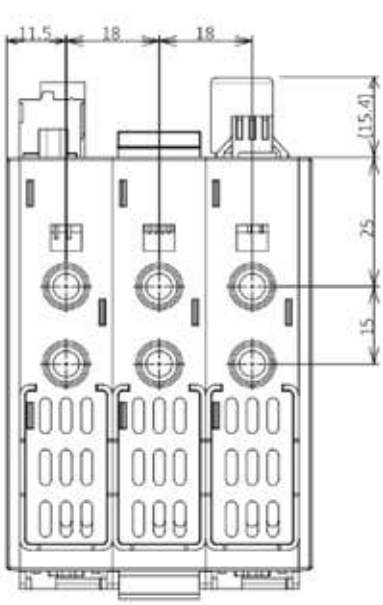
Front View



Back View

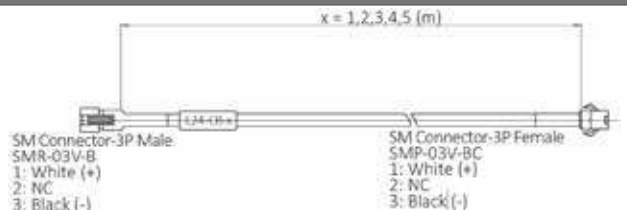
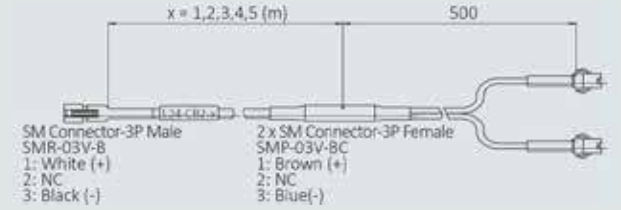
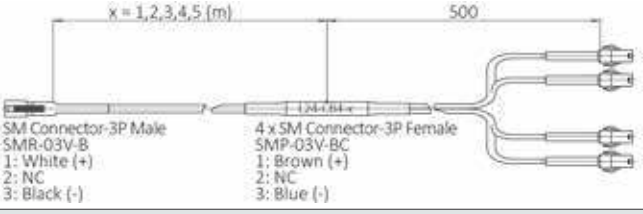
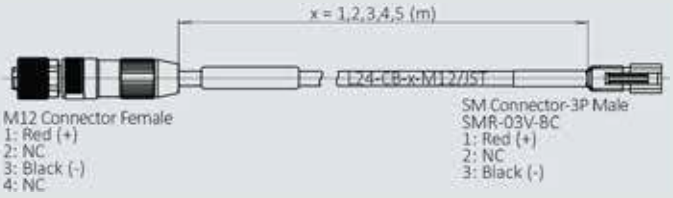
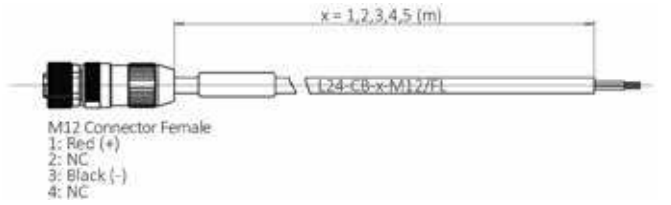
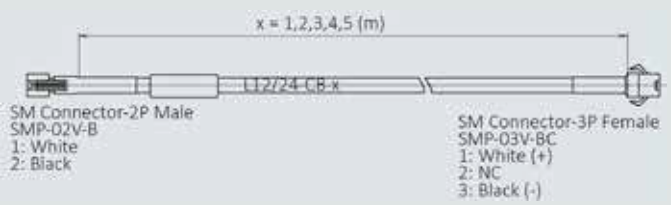
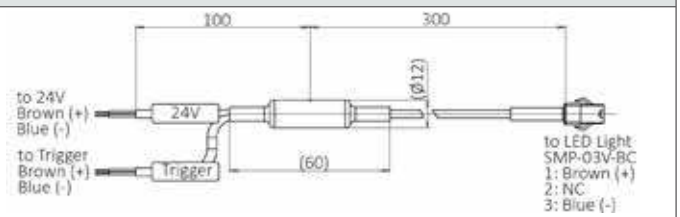
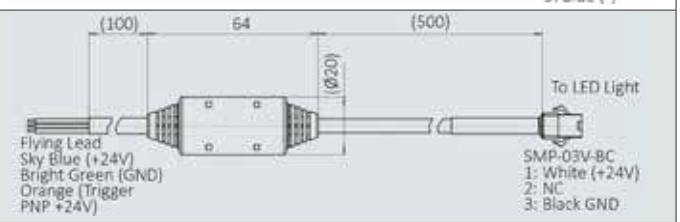


Bottom View



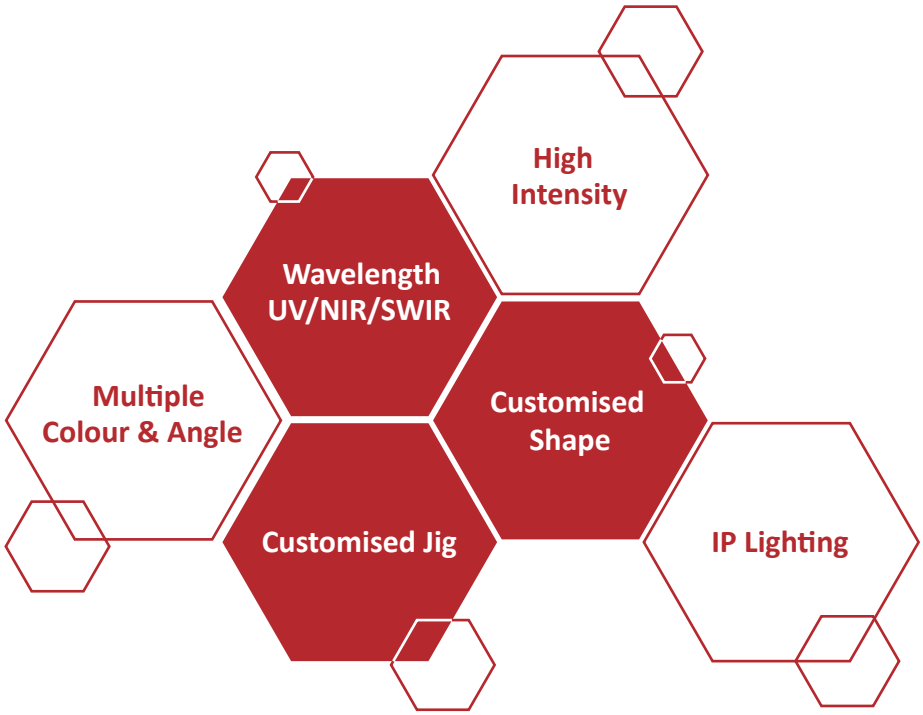
EXTENSION CABLES

Specifications

Series	Notes	Part Number	Length	Dimensions
L24-CB	Single Branch Used for 24V input LED Lights	L24-CB-1	1m	
		L24-CB-2	2m	
		L24-CB-3	3m	
		L24-CB-4	4m	
		L24-CB-5	5m	
L24-CB2	2-Branch Used for 24V input LED Lights	L24-CB2-1	1m	
		L24-CB2-2	2m	
		L24-CB2-3	3m	
		L24-CB2-4	4m	
		L24-CB2-5	5m	
L24-CB4	4-Branch Used for 24V input LED Lights	L24-CB4-1	1m	
		L24-CB4-2	2m	
		L24-CB4-3	3m	
		L24-CB4-4	4m	
		L24-CB4-5	5m	
L24-CB-M12/JST	M12 Input & JST Output Connector Used for 24V input LED Lights	L24-CB-1-M12/JST	1m	
		L24-CB-2-M12/JST	2m	
		L24-CB-3-M12/JST	3m	
		L24-CB-4-M12/JST	4m	
		L24-CB-5-M12/JST	5m	
L24-CB-M12/FL	M12 Input & Flying-Lead Used for 24V input LED Lights	L24-CB-1-M12/FL	1m	
		L24-CB-2-M12/FL	2m	
		L24-CB-3-M12/FL	3m	
		L24-CB-4-M12/FL	4m	
		L24-CB-5-M12/FL	5m	
L12/24-CB	3-Pin to 2-Pin Conversion Used for 24V input LED Lights	L12/24-CB-1	1m	
		L12/24-CB-2	2m	
		L12/24-CB-3	3m	
		L12/24-CB-4	4m	
		L12/24-CB-5	5m	
L24-CB-TR	ON/OFF Cable Used for 24V input LED Lights	L24-CB-0.3-TR	0.3m	
IFL-CB	Trigger Cable Used for 24V input LED Lights	IFL-CB-0.5-FL-SM	0.5m	

Customisation category

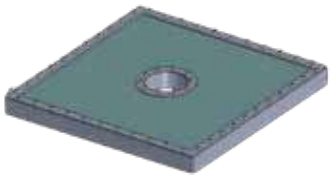
Our technical team is able to formulate customised solutions based on your application needs, you may contact our sales representative for more information. Our customised products can be categorized into the following:



Customised Product examples



Odd Shape Ring Light



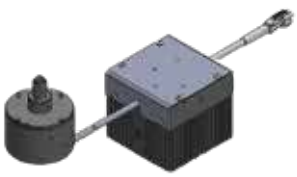
IP Rated Back Light



Multiple channel & Angle Light



Customised Lighting Fixture



Infrared light with different wavelength



Customised Dome Light

INFORMATION

EU Directive



In accordance with EU machinery directive, EMC directive, and low voltage directive, machines and electronic devices not marked with the CE logo are subject to distribution restrictions within the EU. All LAK LED illumination products excluding power supply conform to corresponding EN regulations. These products will maintain the EU mandate compatibility of our customers' machinery and electronics devices.

RoHS Directive

All products listed in this catalog comply with the Directive 2015/863/EU.

REACH Documentation

All standard lighting products listed in this catalog comply with the restriction of SVHC (Substance of Very High Concern) in (EC) 1907/2006.

Warranty Information

Except for the express warranties stated in this document, CCS makes no additional warranties, express, implied, or statutory, as to any matter whatsoever. In particular, any and all warranties of merchantability or fitness for particular purpose are expressly excluded. Except as expressly set forth herein, CCS makes no warranties with respect to the products.

Warranty period: Two years (One year for radiant quantity), starting from CCS shipping date. CCS will repair or replace the product free of charge if it should fail to function or if the radiant quantity of the product should drop to 50% or less of its initial radiant quantity within the specified warranty period. If either of these conditions occurs, please take the product to your CCS Sales Representative.

Warranty Terms

1. CCS will repair or replace the product free of charge if it should fail to function under use on our specified condition in accordance with the instruction guide and other written cautions during the indicated warranty period of two years.

2. CCS will repair or replace the product free of charge if its radiant quantity should drop to 50% or less of its initial radiant quantity under use on our specified condition in accordance with the instruction guide and other written cautions during the indicated warranty period of one year.

3. CCS will charge a repair fee under the following conditions:
   1) If the product has been subjected to misuse, unauthorized repairs, or modification from its original design.
   2) If the product has been damaged from impacts due to inappropriate handling.
   3) If damage to the product results from external causes including accidents, fire, pollution, riots, commmucation failures, earthquakes, thunderstorms, wind and flood damage, or any other act of providence, or from any extraordinary conditions such as electrical surges, water leakage, condensation, or the use of chemicals.
   4) If the damage results from connection to any power supply or to any equipment which CCS does not manufacture or does not specify for use.

4. CCS assumes no liability for any purchaser's secondary damage (damage of equipment, loss of equipment, loss of opportunities, loss of profits, etc.) or any other damage resulting from a failure of our product.

This warranty information provides the scope of CCS's product warranty within the specified period, and does not indicate or imply any further guarantee beyond the warranty terms. Contact CSS for inquiries or information on repairs to the product after the expiration of the warranty.

Note: The radiant quantity refers to the wattage of physical energy radiated from an LED. It refers to the radiation luminosity of the LED measured under conditions specified by CCS or the radiation illumination of the LED under specific irradiation conditions. CCS specifies the radiant quantity for each LED light because the measurement and irradiation conditions vary from the form, the application and the irradiation wavelength.

CREATING CUSTOMER SATISFACTION

We provide technical support and demo loaners across Asia and Oceania

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