

Generation 3 of Light Engines

500, 250 & 125 Lumen Modules

With precision optics these 6-inch modules are excellent substitutes for fluorescent lighting in sign backlighting, tunnels, corridors, and other linear light applications – large and small. Our new generation of LED Light Engines are now even easier to install, use less power, and save more on maintenance.

Bringing Light to Your Ideas. Light Engines LLC



PRODUCT PERFORMANCE SUMMARY

Part Number	Color See Fig. 2	Luminous Flux, typical, lm ¹	Power, W	Radiation Angle, 2 $\Theta_{1/2}$, deg ²
2x12.G3-WH-SL	White	540	7.7	100° x 50° ³ (see Fig.1a, 1b)
1x12.G3-WH-SL	White	270	3.8	100° x 50° ³ (see Fig.1a, 1b)
1x6.G3-WH-SL	White	135	1.9	100° x 50° ³ (see Fig.1a, 1b)

¹ At ambient temperature of 25°C.

² 2 $\Theta_{1/2}$ is the full width of the radiation angle at half of the axis intensity.

³ Also available with radiation angles of 50° x 100° and 90° x 90°

Figure 1a. On-axis Spatial Distribution of Luminous Intensity, 2 $\Theta_{1/2}$ = 100°

Figure 1b. Off-Axis Spatial Distribution of Luminous Intensity, 2 $\Theta_{1/2}$ = 50°

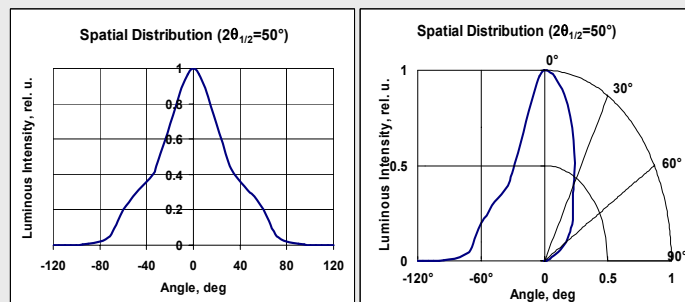
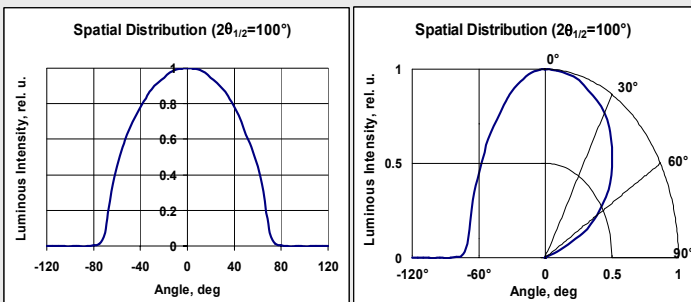
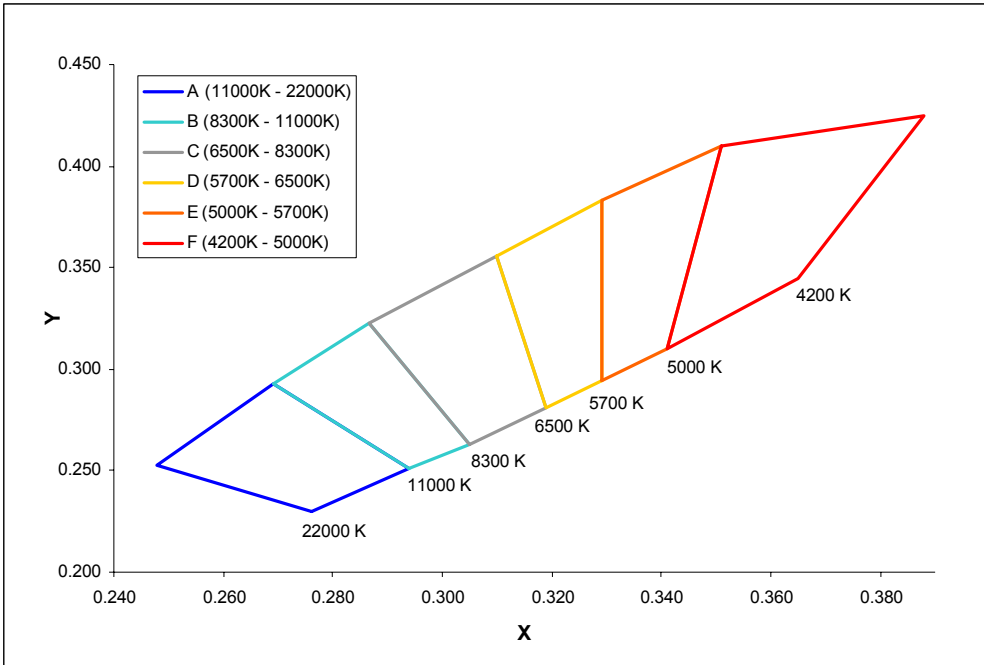


Figure 2. Available color bins A-F per 1931 CIE Chromaticity Diagram.



RECOMMENDED OPERATING CONDITIONS

Parameter	Min	Typ.	Max
Supply Voltage, DC, V	23	24	25
Operating Temperature, ambient, °C ¹	-40		70

¹ Higher operating temperatures are possible with a proper heat sink.

ABSOLUTE MAXIMUM RATINGS

Parameter	Min	Max
Supply Voltage, DC, V	0	25
Storage Temperature, °C	-60	100

ELECTRICAL CHARACTERISTICS at Ta=25°C

Parameter		Typ.
Operating Current (mA)	2x12	320
	1x12	160
	1x6	80
Power Consumption (W)	2x12	7.7
	1x12	3.8
	1x6	1.9

MECHANICAL DIMENSIONS

Product	Outline, L x W x H, mm	Outline, L x W x H, in
2x12	150 x 50 x 8.1	5.90 x 1.97 x .32
1x12	150 x 23 x 8.1	5.90 x .90 x .32
1x6	150 x 23 x 8.1	5.90 x .90 x .32

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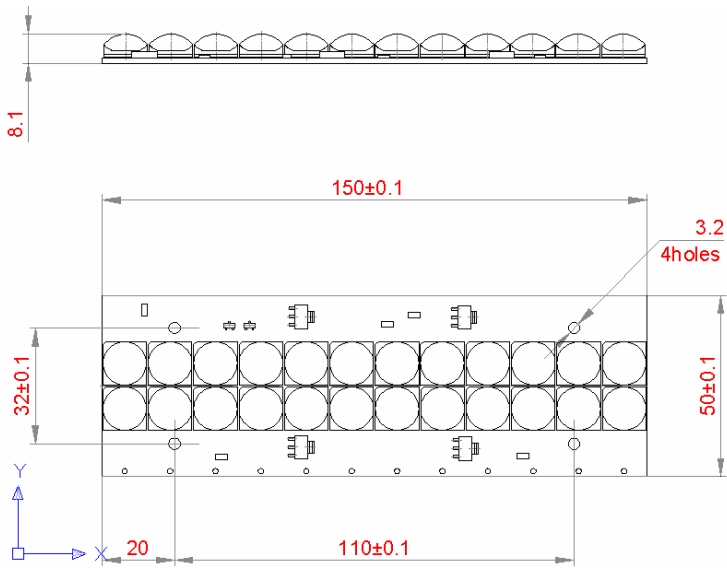
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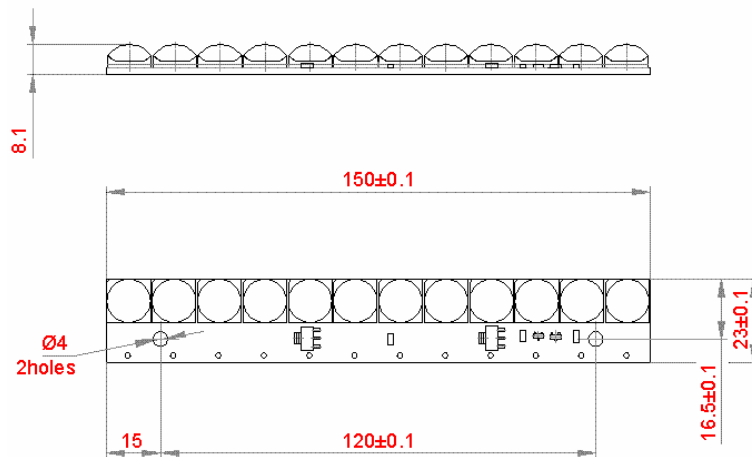


MECHANICAL DIMENSIONS (mm)

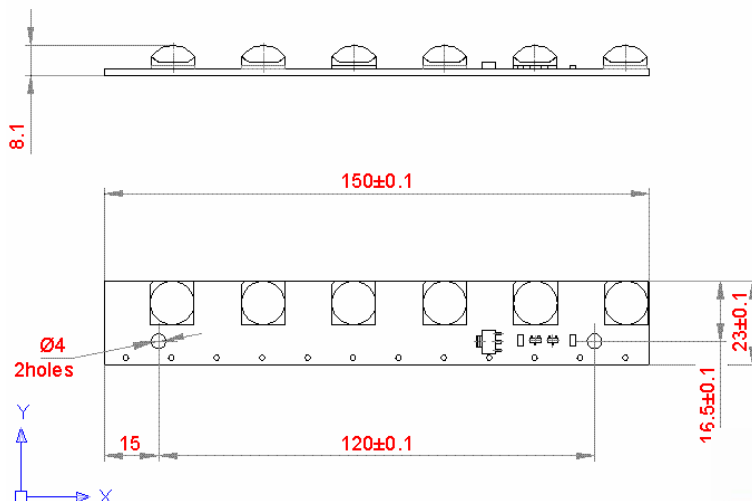
2x12.G3-WH-SL



1x12.G3-WH-SL



1x6.G3-WH-SL



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