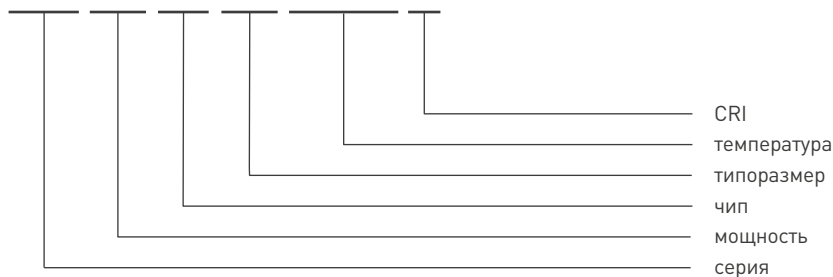


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PRODUCT NOMENCLATURE

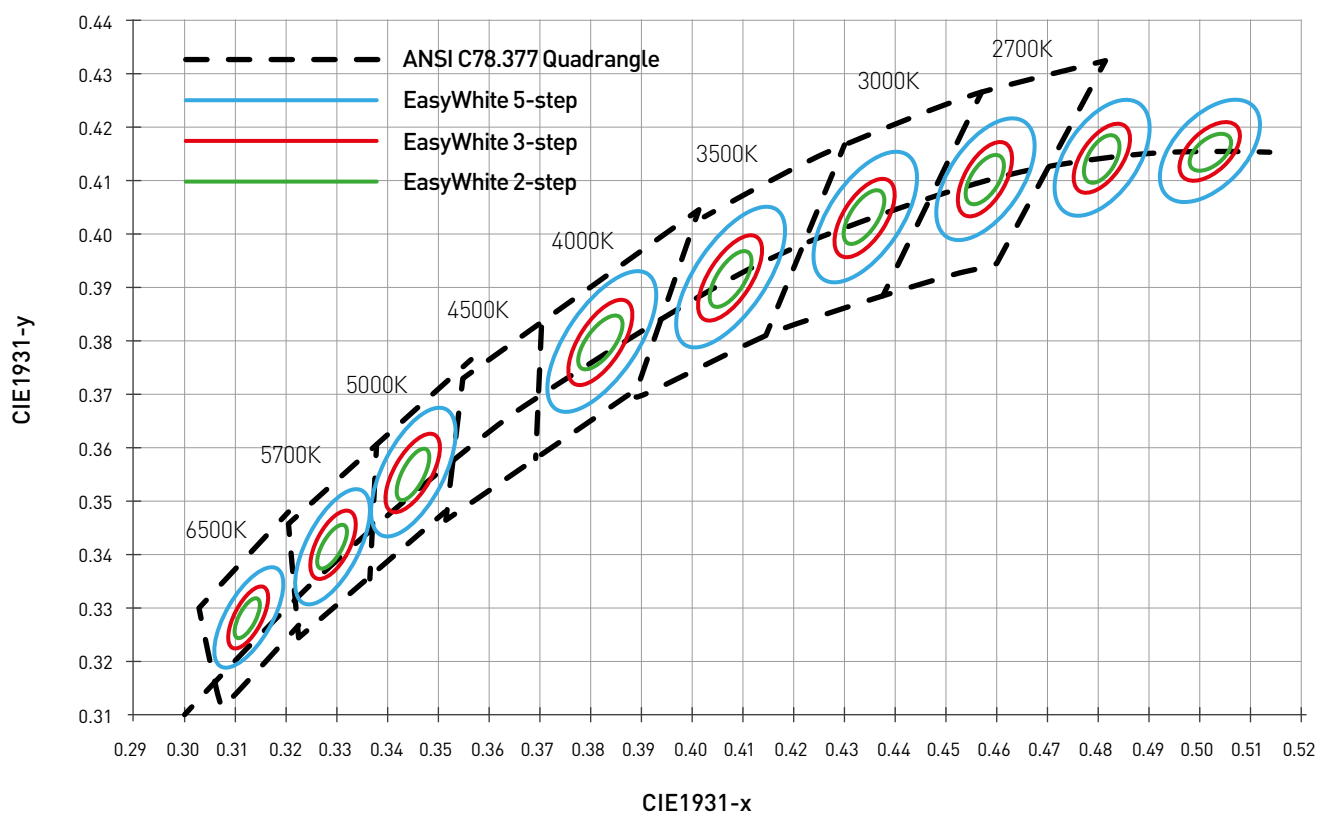
ARPL-12W-TFA-1414-Day4000-90



Артикул	Наименование	Примечание
036069	Мощный светодиод ARPL-12W-TFA-1414-Warm3000-90 (34v, 360mA)	Мощный светодиод типа COB, размер 13.5×13.5 мм. Цвет свечения белый (3000 K). Угол излучения 120°. Световой поток 1475–1586 лм при If=360 мА, P=12 Вт. VF=34 В. CRI>90.
036071	Мощный светодиод ARPL-12W-TFA-1414-White5700-90 (34v, 360mA)	Мощный светодиод типа COB, размер 13.5×13.5 мм. Цвет свечения белый (5700 K). Угол излучения 120°. Световой поток 1498–1610 лм при If=360 мА, P=12 Вт. VF=34 В. CRI>90.
036070	Мощный светодиод ARPL-12W-TFA-1414-Day4000-90 (34v, 360mA)	Мощный светодиод типа COB, размер 13.5×13.5 мм. Цвет свечения белый (4000 K). Угол излучения 120°. Световой поток 1415–1538 лм при If=360 мА, P=12 Вт. VF=34 В. CRI>90.
039461	Мощный светодиод ARPL-12W-TFA-1414-Warm2700-90 (34v, 360mA)	Мощный светодиод типа COB, размер 13.5×13.5 мм. Цвет свечения белый (2700 K). Угол излучения 120°. Световой поток 1400–1440 лм при If=360 мА, P=12 Вт. VF=34 В. CRI>90.

CHROMATICITY COORDINATE GROUPS

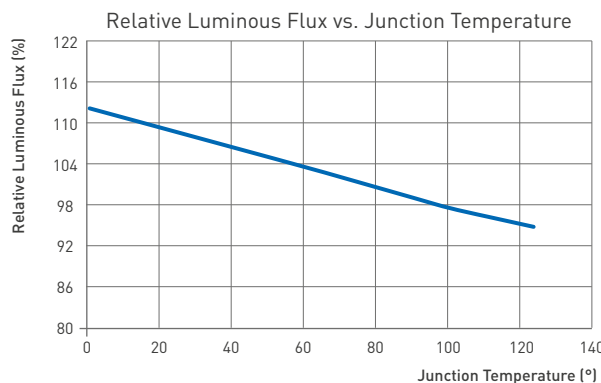
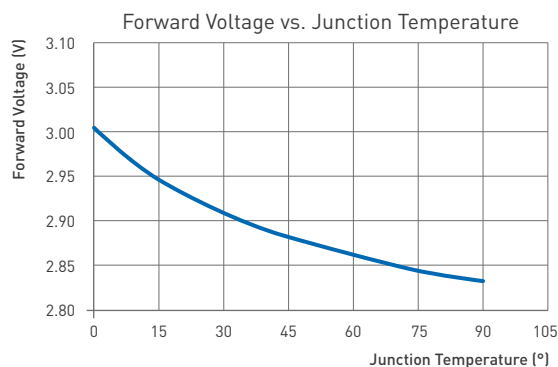
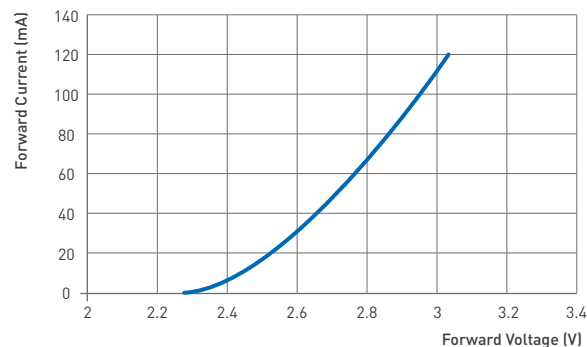
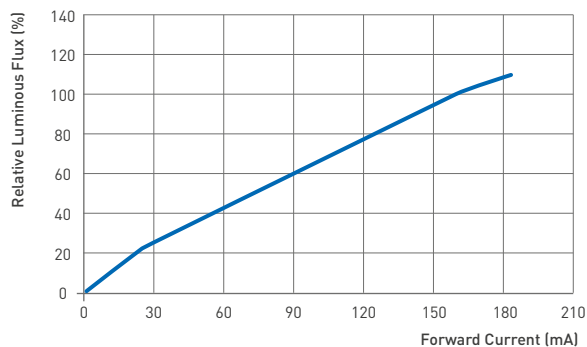
Graph of Test Bins in xy Color Space (Pulsed Test Conditions, $T_C=25^\circ\text{C}$)



Nominal CCT	Center Point		MAJOR AXIS (a , b)			Ellipse Rotation Angel, θ
	X	Y	2-Step	3-Step	5-Step	
3000 K	0.4338	0.4030	[0.0057, 0.0028]	[0.0086, 0.0042]	[0.0142, 0.0069]	53.7
4000 K	0.3818	0.3797	[0.0063, 0.0027]	[0.0093, 0.0042]	[0.0157, 0.0068]	53.4
5700 K	0.3290	0.3417	[0.0048, 0.0021]	[0.0072, 0.0032]	[0.0119, 0.0052]	58.8

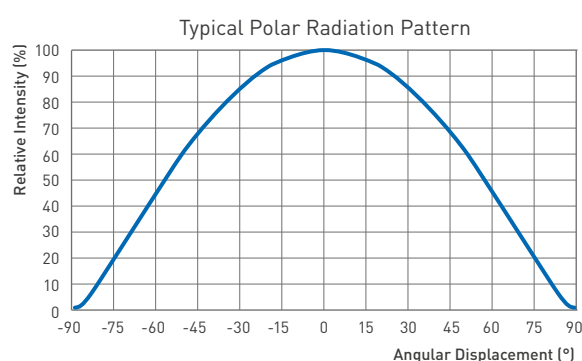
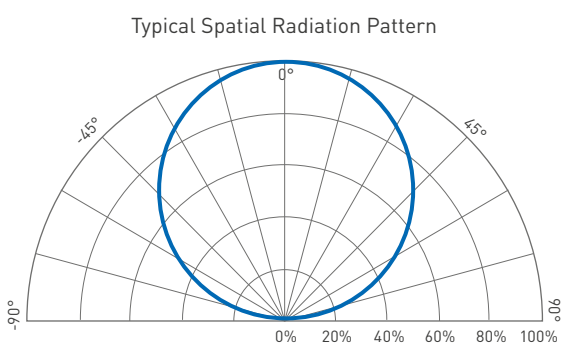
TYF maintains a tolerance of ± 0.005 on x and y coordinates in the CIE 1931 color space.

CHARACTERISTIC CURVES

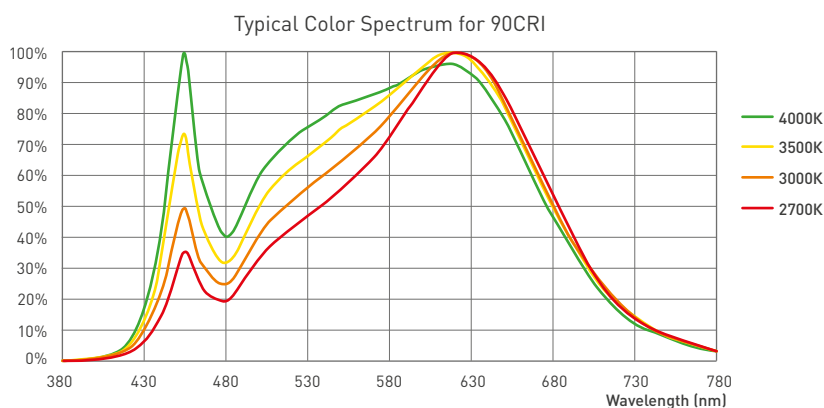


- Figures for single LED chip.
- TYF does not recommend driving our LED arrays at low currents. Doing so may produce unpredictable results.
- Products tested based on operation under DC (Direct current) with LED array mounted onto a heat sink with thermal interface material and T_j (junction temperature) = 85 °C. Base on TYF test setup, values also depending on the thermal design and exposed environment to which the luminaire is subjected.

OPTICAL CURVES



Typical viewing angle is 120°. The viewing angle is defined as the off axis angle from the center line where intensity is 1/2 of the peak value.



- Color spectra measured at nominal current for $T_j = 25^\circ\text{C}$.
- Color spectra shown is 2700K, 3000K, 3500K, 4000K and 90 CRI.

RELIABILITY TEST

Test Item	REF. Standard	Test condition	Sample count	Failure quantity
Thermal Shock	JESD22-A106	-40 °C (15min) ~ 100 °C (15min), 200 cycles	22	0
High Temperature Storage	JESD22-A103	Ta=120 °C, 1000h	22	0
Low Temperature Storage	JESD22-A119	Ta=-40 °C, 1000h	22	0
High Temperature High Humidity Life Test	JESD22-A101	Ta=85 °C, RH>=85%, 1000h	22	0
High Temperature Life Test	JESD22-A108	Ta=105 °C, IF=90mA@1 serie 1000h	22	0
Low Temperature Life Test	JESD22-A108	Ta=-40 °C, IF=90mA@1 serie 1000h	22	0