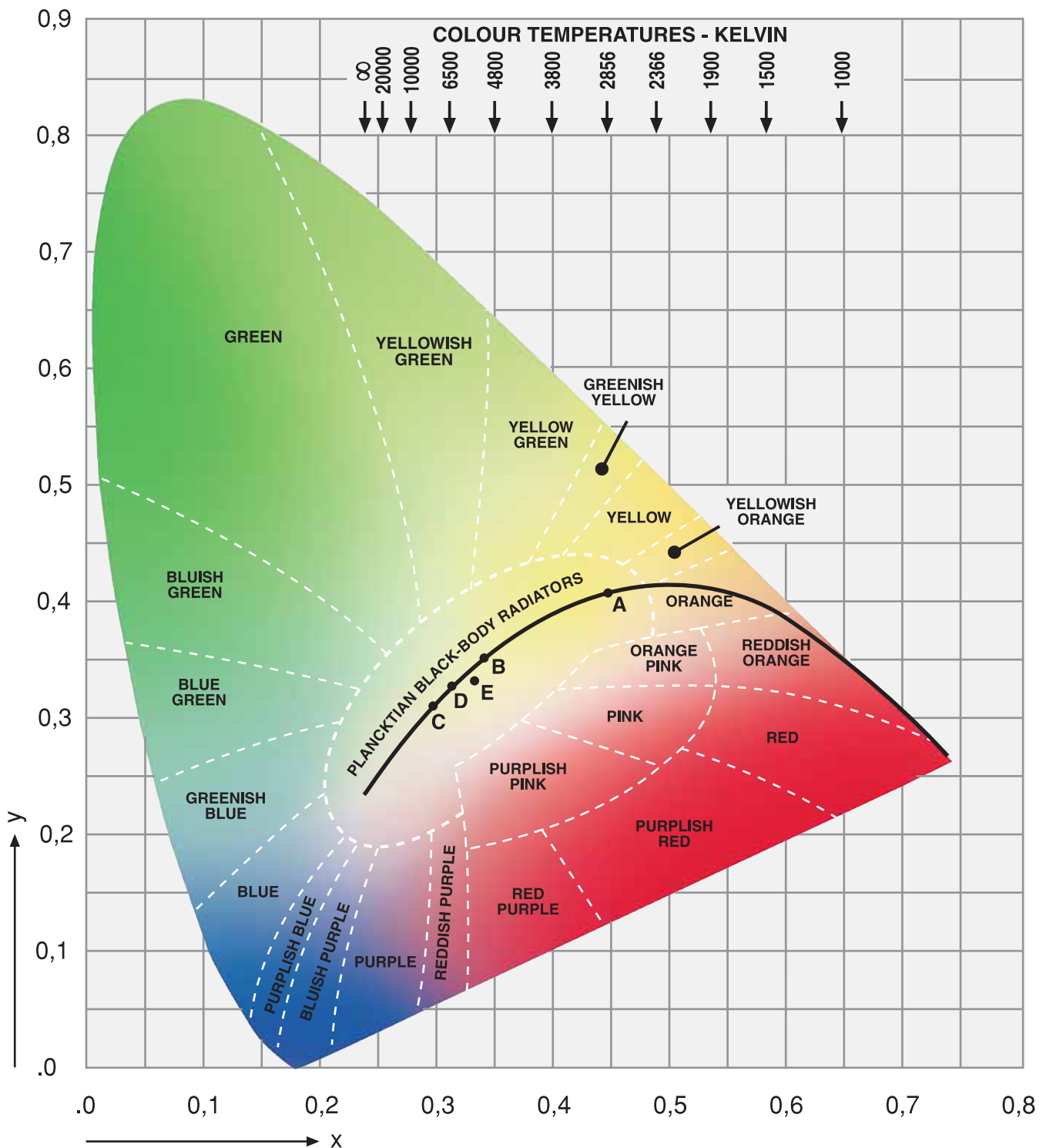


COLORIMETRICS AND SPECTRAL ANALYSIS

C.I.E. 1931 CHROMATICITY DIAGRAM



The (x, y) points on the C.I.E. 1931 diagram are defined "chromaticity coordinates" and, together with the correlated colour temperature, are the colorimetric synthesis of a spectral power distribution. The chromaticity point and the CCT (T_c) must be considered together to define the colour of any light visible to the human eye.

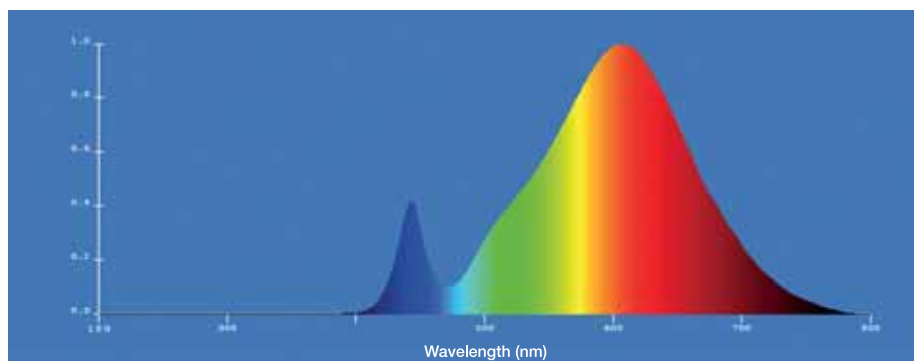
The chromaticity points A, B and D on the diagram synthesize the following C.I.E. Standard Illuminants:

A (incandescent light); B (midday light); D65 (natural light).

The point C synthesizes the average solar day by approximation, the point E the achromatic light.

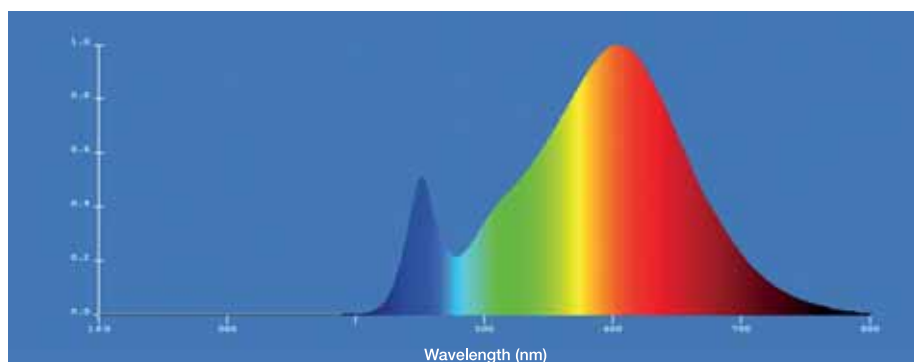
COLORIMETRICS AND SPECTRAL ANALYSIS

Spectral Power Distribution 180 - 800 nm



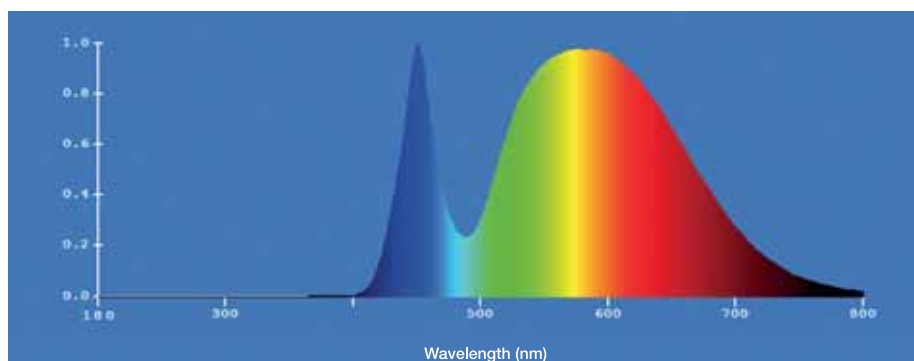
C28

2700K
X = 0,463
Y = 0,420
Ra > 80



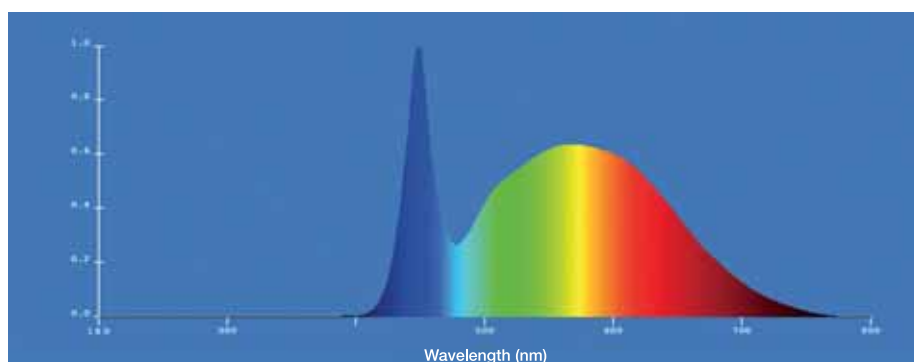
C22

3000K
X = 0,440
Y = 0,403
Ra > 80



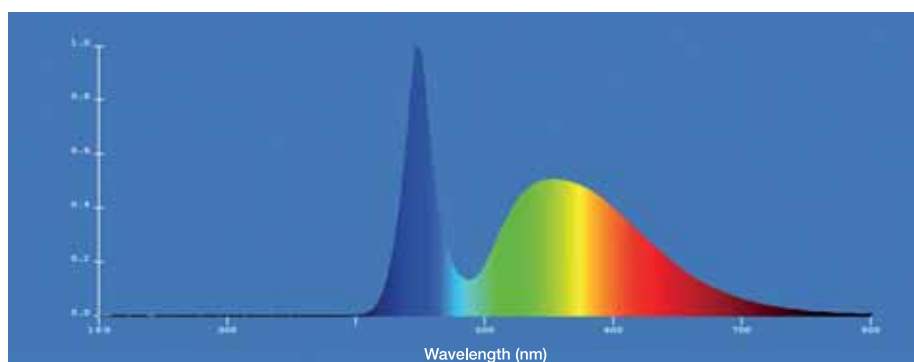
C29

4000K
X = 0,380
Y = 0,380
Ra > 80



C24

5000K
X = 0,346
Y = 0,359
Ra > 80












C23

6500K
X = 0,313
Y = 0,337
Ra > 80

COLORIMETRICS AND SPECTRAL ANALYSIS

Suggested light Tonality

Application		Warm Warm-white	Cool-white	Daylight
In homes				
Dining room, living room		[Warm Warm-white bar]		
Bedroom		[Warm Warm-white bar]		
Kitchen, bathroom		[Cool-white bar]		
Cellar, workshop		[Cool-white bar]		
Outdoor lighting				
Streets		[Cool-white bar]		
Pedestrian walks		[Cool-white bar]		
Parks		[Cool-white bar]		
Squares		[Cool-white bar]		
Meeting places				
Restaurants, taverns		[Warm Warm-white bar]		
Beerhouses, pubs		[Warm Warm-white bar]		
Hotels, pensions		[Warm Warm-white bar]		
Agri-tourism		[Warm Warm-white bar]		
Industries, Craftsmen, Commerce				
Electronics		[Warm Warm-white bar]		
Textile industry, dental mechanics		[Warm Warm-white bar]		
Graphic & colour control industries		[Cool-white bar]		
Warehouses, shipping		[Cool-white bar]		
Public buildings				
Show rooms, exhibition centers		[Warm Warm-white bar]		
Poly-sport complexes		[Cool-white bar]		
Art galleries		[Daylight bar]		
Theaters, concert halls, museums		[Daylight bar]		
School buildings & lecture halls				
University lecture rooms		[Warm Warm-white bar]		
Nursery schools		[Cool-white bar]		
Libraries		[Cool-white bar]		
Reading rooms		[Cool-white bar]		
Hospitals, medical centers				
Hospital rooms		[Warm Warm-white bar]		
Diagnostics and therapy		[Daylight bar]		
Waiting rooms		[Daylight bar]		
Photo-therapy		[Daylight bar]		
Shop				
Foodstuffs, textiles & leather goods		[Warm Warm-white bar]		
Photography, jewelers, florists		[Cool-white bar]		
Bakers, butchers, cosmetics		[Cool-white bar]		
Supermarkets, commercial centers		[Cool-white bar]		
Cabinets, frozen-goods counters	[Daylight bar]			
Offices and studios				
Offices, studios		[Warm Warm-white bar]		
Meeting rooms		[Cool-white bar]		
Hallways		[Cool-white bar]		
Executive offices		[Cool-white bar]		