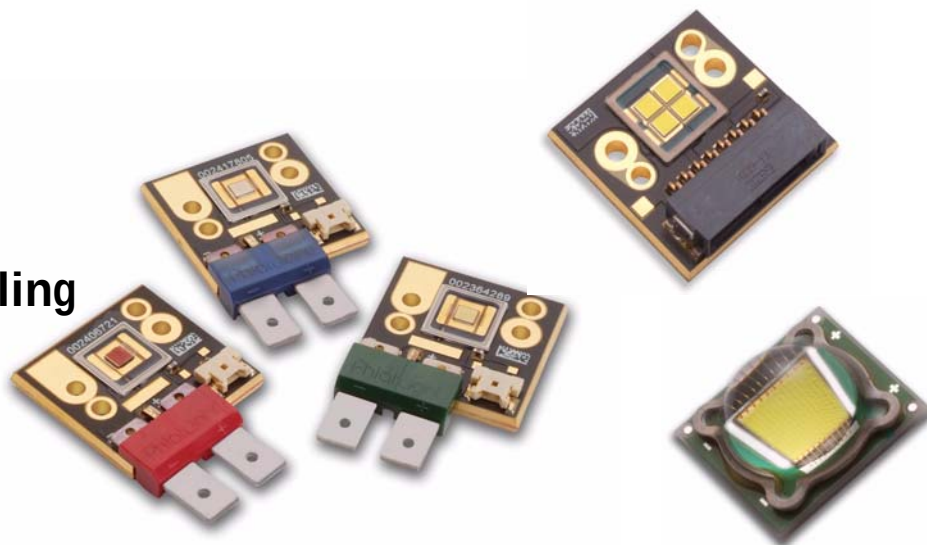


PhlatLight® LED Binning and Labeling



Introduction

This document describes the binning and labeling nomenclature for PhlatLight LED products as well as the orderable bin kits for each part.

With each build of parts, there is a distribution of performance in both flux and wavelength or chromaticity. In order to guarantee specific performance for customers, each device is measured and subsequently grouped into flux and wavelength or chromaticity bins. Each individual package or reel of parts contains only one combination of flux and wavelength or chromaticity bin. Furthermore, bins are combined into orderable bin kits comprising of a selection of flux and wavelength or chromaticity bins to ease the ordering process.

Table of Contents

Table of Products	2
Shipping and Labeling Nomenclature	5
Bin Kit Ordering Nomenclature	6
White Flux Binning Structure.....	7
Monochromatic Flux Binning Structure	8
White Chromaticity Binning Structure	10
Monochromatic Wavelength Binning Structure	13
CBT-40 Bin Kit Codes	14
CBT-90 Bin Kit Codes	15
CBT-120 Bin Kit Codes.....	17
CST-90 Bin Kit Codes	18
SST-50 Bin Kit Codes.....	21
SSR-50 Bin Kit Codes.....	24
SST-90 Bin Kit Codes.....	27
SSR-90 Bin Kit Codes.....	31
CBM-360 Bin Kit Codes	35
CSM-360 Bin Kit Codes.....	36
CBM-380 Bin Kit Codes	39

Table of Products

Product	Ordering Part Number	Description
CBT-40-R	CBT-40-R-C21-X X 1 2 3	PhlatLight CBT-40 consisting of a 4 mm ² LED, thermistor and connector mounted on a copper-core PCB.
CBT-40-G	CBT-40-G-C21-X X 1 2 3	
CBT-40-B	CBT-40-B-C21-X X 1 2 3	
CBT-90-R	CBT-90-R-C11-X X 1 2 3	PhlatLight CBT-90 consisting of a 9 mm ² LED, thermistor and connector mounted on a copper-core PCB.
CBT-90-G	CBT-90-G-C11-X X 1 2 3	
CBT-90-B	CBT-90-B-C11-X X 1 2 3	
CBT-90-W65S	CBT-90-W65S-C11-X X 1 2 3	
CBT-90-WDLS	CBT-90-WDLS-C11-X X 1 2 3	
CBT-120-R	CBT-120-R-C11-X X 1 2 3	PhlatLight CBT-120 consisting of a 12 mm ² LED, thermistor and connector mounted on a copper-core PCB.
CBT-120-G	CBT-120-G-C11-X X 1 2 3	
CBT-120-B	CBT-120-B-C11-X X 1 2 3	
CST-90-W65S	CST-90-W65S-C12-X X 1 2 3	PhlatLight CST-90 consisting of an encapsulated 9 mm ² LED with an 8mm diameter dome, thermistor and connector mounted on a copper-core PCB.
CST-90-W57S	CST-90-W57S-C12-X X 1 2 3	
CST-90-WDLS	CST-90-WDLS-C12-X X 1 2 3	
CST-90-W45S	CST-90-W45S-C12-X X 1 2 3	
CST-90-WCLS	CST-90-WCLS-C12-X X 1 2 3	
CST-90-WWTM	CST-90-WWTM-C12-X X 1 2 3	
CST-90-W30M	CST-90-W30M-C12-X X 1 2 3	
CST-90-WWRM	CST-90-WWRM-C12-X X 1 2 3	
SST-50-W65S	SST-50-W65S-F21-X X 1 2 3	PhlatLight SST-50 surface mount device consisting of an encapsulated 5mm ² LED with an 5.6mm diameter dome, mounted on a ceramic substrate.
SST-50-W57S	SST-50-W57S-F21-X X 1 2 3	
SST-50-WDLS	SST-50-WDLS-F21-X X 1 2 3	
SST-50-W45S	SST-50-W45S-F21-X X 1 2 3	
SST-50-WCLS	SST-50-WCLS-F21-X X 1 2 3	
SST-50-WWTM	SST-50-WWTM-F21-X X 1 2 3	
SST-50-W30M	SST-50-W30M-F21-X X 1 2 3	
SST-50-WWRM	SST-50-WWRM-F21-X X 1 2 3	

Product	Ordering Part Number	Description
SSR-50-W65S	SSR-50-W65S-R21-X X 1 2 3	PhlatLight SSR-50 module consisting of a SST-50 surface mount device mounted on an aluminum star-board
SSR-50-W57S	SSR-50-W57S-R21-X X 1 2 3	
SSR-50-WDLS	SSR-50-WDLS-R21-X X 1 2 3	
SSR-50-W45S	SSR-50-W45S-R21-X X 1 2 3	
SSR-50-WCLS	SSR-50-WCLS-R21-X X 1 2 3	
SSR-50-WWTM	SSR-50-WWTM-R21-X X 1 2 3	
SSR-50-W30M	SSR-50-W30M-R21-X X 1 2 3	
SSR-50-WWRM	SSR-50-WWRM-R21-X X 1 2 3	
SST-90-R	SST-90-R-F11-X X 1 2 3	PhlatLight SST-90 surface mount device consisting of an encapsulated 9mm ² LED with an 8mm diameter dome, mounted on a ceramic substrate.
SST-90-G	SST-90-G-F11-X X 1 2 3	
SST-90-B	SST-90-B-F11-X X 1 2 3	
SST-90-W65S	SST-90-W65S-F11-X X 1 2 3	
SST-90-W57S	SST-90-W57S-F11-X X 1 2 3	
SST-90-WDLS	SST-90-WDLS-F11-X X 1 2 3	
SST-90-W45S	SST-90-W45S-F11-X X 1 2 3	
SST-90-WCLS	SST-90-WCLS-F11-X X 1 2 3	
SST-90-WWTM	SST-90-WWTM-F11-X X 1 2 3	
SST-90-W30M	SST-90-W30M-F11-X X 1 2 3	
SST-90-WWRM	SST-90-WWRM-F11-X X 1 2 3	
SSR-90-R	SSR-90-R-R11-X X 1 2 3	PhlatLight SSR-90 module consisting of a SST-90 surface mount device mounted on an aluminum star-board
SSR-90-G	SSR-90-G-R11-X X 1 2 3	
SSR-90-B	SSR-90-B-R11-X X 1 2 3	
SSR-90-W65S	SSR-90-W65S-R11-X X 1 2 3	
SSR-90-W57S	SSR-90-W57S-R11-X X 1 2 3	
SSR-90-WDLS	SSR-90-WDLS-R11-X X 1 2 3	
SSR-90-W45S	SSR-90-W45S-R11-X X 1 2 3	
SSR-90-WCLS	SSR-90-WCLS-R11-X X 1 2 3	
SSR-90-WWTM	SSR-90-WWTM-R11-X X 1 2 3	
SSR-90-W30M	SSR-90-W30M-R11-X X 1 2 3	
SSR-90-WWRM	SSR-90-WWRM-R11-X X 1 2 3	

Product	Ordering Part Number	Description
CBM-360-W65S	CBM-360-W65S-D12-X X 1 2 3	PhlatLight CBM-360 consisting of four 9 mm ² LEDs wired in series, thermistor and connector mounted on a copper-core PCB.
CBM-360-WDLS	CBM-360-WDLS-D12-X X 1 2 3	
CSM-360-W65S	CSM-360-W65S-D22-X X 1 2 3	PhlatLight CSM-360 consisting of four encapsulated 9 mm ² LEDs wired in series with a 16mm diameter dome, thermistor and connector mounted on a copper-core PCB.
CSM-360-W57S	CSM-360-W57S-D22-X X 1 2 3	
CSM-360-WDLS	CSM-360-WDLS-D22-X X 1 2 3	
CSM-360-W45S	CSM-360-W45S-D22-X X 1 2 3	
CSM-360-WCLS	CSM-360-WCLS-D22-X X 1 2 3	
CSM-360-WWTM	CSM-360-WWTM-D22-X X 1 2 3	
CSM-360-W30M	CSM-360-W30M-D22-X X 1 2 3	
CSM-360-WWRM	CSM-360-WWRM-D22-X X 1 2 3	
CBM-380-RGBW	CBM-380-RGBW-D11-X X 1 2 3	PhlatLight CBM-380-RGBW module consisting of a red 12 mm ² LED, a green 12 mm ² LED, a blue 5.4 mm ² LED, a white 9 mm ² LED, thermistor and connector, mounted on a copper-core PCB

PhlatLight Shipping and Labeling Nomenclature

All PhlatLight products are packaged and labeled with their respective bin as outlined in the following pages. Each package or reel will only contain one bin. The part number designation is as follows:

A B C — 1 2 3 — D 4 5 E — F 6 7 — G H — I 8

Product Family	Chip Area	Color	Package Configuration	Flux Bin	Wavelength/ Chromaticity Bin
----------------	-----------	-------	-----------------------	----------	---------------------------------

Product Family	A - Package type. "C" denotes chip-on board and "S" denotes surface mount				
	B - Lens type. "B" denotes window (no lens) and "S" denotes dome.				
	C - Chip quantity. "T" denotes single chip, "M" denotes multi-chip and "R" denotes prototyping board				
Chip Area	1 2 3 - Total LED chip area (mm ²) x 10. "90" denotes 9mm ² , "120" denotes 12mm ² , etc.				
Color	D - Color. "W" denotes white, "R" denotes red, "G" denotes Green, "B" denotes blue				
	4 5 - Color temperature. "DL" denotes daylight white (6500K through 5000K), "CL" denotes cool white (5000K through 4000K), "WT" denotes white (4500K through 3500K), "WR" denotes warm white (3500K through 2700K), "65" denotes 6500K, "57" denotes 5700K, "40" denotes 4000K, etc. Not applicable for monochrome parts				
	E - Color rendering. "S" (standard) denotes a typical CRI of 70, "M" (moderate) denotes a typical CRI of 83 and "H" (high) denotes a typical color rendering of 92. Not applicable for monochrome parts				
Package Config	F 6 7 - Package configuration (for internal use).				
Flux Bin	G H - Flux bin				
Wavelength/ Chromaticity Bin	I 8 - Wavelength / Chromaticity bin				

Example:

The part number **SST-90-W65S-F11-WN-G4** refers to a 6500K standard CRI white, SST-90 emitter, F11 package configuration, with a minimum flux value of 1,000 lumens and a chromaticity value within the box defined by the four points (0.313, 0.338), (0.321, 0.348), (0.322, 0.336), (0.312, 0.328).

PhlatLight Bin Kit Ordering Nomenclature

All PhlatLight White products are sold in sets of flux and chromaticity bins called bin kits. Each bin kit specifies a minimum flux bin and a specific selection of chromaticity bins. The ordering part number designation is as follows:

A B C — 1 2 3 — D 4 5 E — F 6 7 — K L 8 9 0

Product Family	Chip Area	Color	Package Configuration	Bin Kit
----------------	-----------	-------	-----------------------	---------

Product Family	A - Package type. "C" denotes chip-on board and "S" denotes surface mount
	B - Lens type. "B" denotes window (no lens) and "S" denotes dome.
	C - Chip quantity. "T" denotes single chip, "M" denotes multi-chip and "R" denotes prototype board
Chip Area	1 2 3 - Total LED chip area (mm ²) x 10. "90" denotes 9mm ² , "120" denotes 12mm ² , etc.
Color	D - Color. "W" denotes white, "R" denotes red, "G" denotes Green, "B" denotes blue
	4 5 - Color temperature. "DL" denotes daylight white (6500K through 5000K), "CL" denotes cool white (5000K through 4000K), "WT" denotes white (4500K through 3500K), "WR" denotes warm white (3500K through 2700K), "65" denotes 6500K, "57" denotes 5700K, "40" denotes 4000K, etc. Not applicable for monochrome parts
	E - Color rendering. "S" (standard) denotes a typical CRI of 70, "M" (moderate) denotes a typical CRI of 83 and "H" (high) denotes a typical color rendering of 92. Not applicable for monochrome parts
Package Config	F 6 7 - Package configuration (for internal use).
Bin Kit	K L - Flux bin kit code
	8 9 0 - Wavelength / Chromaticity bin kit code

Example 1:

The ordering part number SST-90-W65S-F11-GM101 refers to a bin kit containing SST-90-W65S-F11 bins meeting a minimum flux value of 850 lumens and falling in the F4, F3, G4, G3, EF, and DG chromaticity bins.

Example 2:

The ordering part number CBT-120-R-C11-HM100 refers to a bin kit containing CBT-120-R-C11 bins meeting a minimum flux value of 970 lumens and falling in the R2, R3, R4, R5, R6, and R7 wavelength bins.

PhlatLight White Flux Binning Structure

All white PhlatLight LEDs are tested for luminous flux and placed into one of the following flux bins. The binning structure is universally applied across the full white product line, however not all flux bins are currently available for each product. Consult the specific product datasheet for the list of available flux bins for the specific product.

White Flux Bins

Flux Bin Code (FF)	Minimum Luminous Flux	Maximum Luminous Flux
WE	220	275
WF	275	350
WG	350	425
WH	425	500
WJ	500	600
WK	600	700
WL	700	850
WM	850	1,000
WN	1,000	1,200
WP	1,200	1,450
WQ	1,450	1,750
WR	1,750	2,100
WS	2,100	2,500
WT	2,500	3,000
WU	3,000	3,600
WV	3,600	4,300
WX	4,300	5,100

PhlatLight Monochromatic Flux Binning Structure

All PhlatLight monochromatic LEDs are tested for luminous flux and placed into one of the following flux bins. The binning structure is universally applied across each monochromatic color of the PhlatLight product line, however not all flux bins are currently available for each product. Consult the specific product datasheet for the list of available flux bins for the specific product.

Red Flux Bins

Flux Bin Code (FF)	Minimum Luminous Flux	Maximum Luminous Flux
BC	120	165
BD	165	215
BE	215	275
BF	275	350
BG	350	475
BH	475	600
BJ	600	770
BK	770	970
BM	970	1,150
BN	1,150	1,350
BP	1,350	1,570
BQ	1,570	1,850

Green Flux Bins

Flux Bin Code (FF)	Minimum Luminous Flux	Maximum Luminous Flux
CC	400	500
CD	500	640
CE	640	775
CF	775	940
CG	940	1,200
CH	1,200	1,500
CJ	1,500	2,000
CK	2,000	2,300
CM	2,300	2,600
CN	2,600	2,900
CP	2,900	3,200
CQ	3,200	3,600

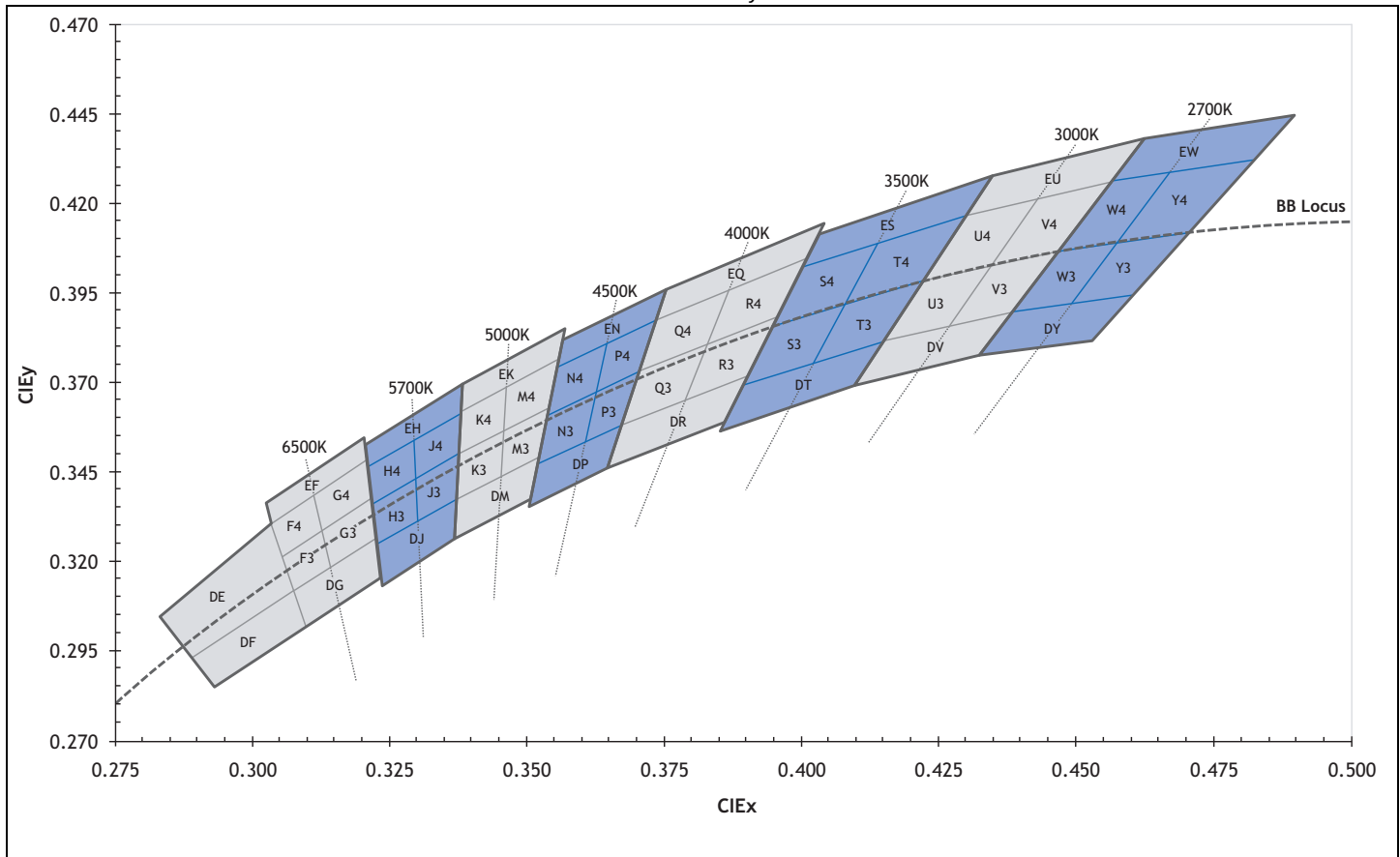
Blue Flux Bins

Flux Bin Code (FF)	Minimum Luminous Flux	Maximum Luminous Flux
DC	70	90
DD	90	120
DE	120	160
DF	160	200
DG	200	250
DH	250	350
DJ	350	450
DK	450	575
DM	575	700
DN	700	800
DP	800	925

PhlatLight White Chromaticity Binning Structure

All white PhlatLight LEDs are tested for chromaticity and placed into one of the following chromaticity bins. The binning structure is universally applied across the full white product line, however not all chromaticity bins are currently available for each product. Consult the specific product datasheet for the list of available chromaticity bins for the specific product.

Luminus' Standard Chromaticity Bins: 1931 CIE Curve



The following tables describe the four chromaticity points that bound each chromaticity bin. Chromaticity bins are grouped together based on the color temperature.

6500K Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
DG	0.307	0.311
	0.322	0.326
	0.323	0.316
	0.309	0.302
F3*	0.305	0.321
	0.313	0.329
	0.315	0.319
	0.307	0.311
F4*	0.303	0.330
	0.312	0.339
	0.313	0.329
	0.305	0.321
G3*	0.313	0.329
	0.321	0.337
	0.322	0.326
	0.315	0.319
G4*	0.312	0.339
	0.321	0.348
	0.321	0.337
	0.313	0.329
EF	0.302	0.335
	0.320	0.354
	0.321	0.348
	0.303	0.330
DE	0.283	0.304
	0.303	0.330
	0.307	0.311
	0.289	0.293
DF	0.289	0.293
	0.307	0.311
	0.309	0.302
	0.293	0.285

5700K Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
DJ	0.322	0.324
	0.337	0.337
	0.336	0.326
	0.323	0.314
H3*	0.321	0.335
	0.329	0.342
	0.329	0.331
	0.322	0.324
H4*	0.321	0.346
	0.329	0.354
	0.329	0.342
	0.321	0.335
J3*	0.329	0.342
	0.337	0.349
	0.337	0.337
	0.330	0.331
J4*	0.329	0.354
	0.338	0.362
	0.337	0.349
	0.329	0.342
EH	0.320	0.352
	0.338	0.368
	0.338	0.362
	0.321	0.346

5000K Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
EK	0.338	0.368
	0.356	0.384
	0.355	0.376
	0.338	0.362
K3*	0.337	0.349
	0.345	0.355
	0.345	0.343
	0.337	0.337
K4*	0.338	0.362
	0.347	0.369
	0.345	0.355
	0.337	0.349
M3*	0.345	0.355
	0.353	0.362
	0.352	0.349
	0.344	0.343
M4*	0.346	0.369
	0.355	0.376
	0.353	0.362
	0.345	0.355
DM	0.337	0.337
	0.352	0.349
	0.350	0.337
	0.336	0.326

* Sub-bins within ANSI defined quadrangles per ANSI C78.377-200

4500k Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
EN	0.356	0.384
	0.376	0.396
	0.374	0.387
	0.355	0.374
N3*	0.353	0.360
	0.361	0.366
	0.359	0.352
	0.351	0.347
N4*	0.355	0.374
	0.364	0.381
	0.361	0.366
	0.353	0.360
P3*	0.361	0.366
	0.370	0.373
	0.367	0.358
	0.359	0.352
P4*	0.364	0.381
	0.374	0.387
	0.370	0.373
	0.361	0.366
DP	0.351	0.347
	0.367	0.358
	0.364	0.346
	0.350	0.335

4000K Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
EQ	0.376	0.396
	0.404	0.414
	0.401	0.404
	0.374	0.387
Q3*	0.370	0.373
	0.382	0.380
	0.378	0.365
	0.367	0.358
Q4*	0.374	0.387
	0.387	0.396
	0.382	0.380
	0.370	0.373
R3*	0.382	0.380
	0.395	0.388
	0.390	0.372
	0.378	0.365
R4*	0.387	0.396
	0.401	0.404
	0.395	0.388
	0.382	0.380
DR	0.367	0.358
	0.390	0.372
	0.386	0.359
	0.364	0.346

3500K Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
ES	0.403	0.411
	0.435	0.427
	0.430	0.417
	0.400	0.402
S3*	0.394	0.385
	0.407	0.392
	0.402	0.375
	0.389	0.369
S4*	0.400	0.402
	0.415	0.409
	0.407	0.392
	0.394	0.385
T3*	0.407	0.392
	0.422	0.399
	0.415	0.381
	0.402	0.375
T4*	0.415	0.409
	0.430	0.417
	0.422	0.399
	0.407	0.392
DT	0.389	0.369
	0.415	0.381
	0.409	0.369
	0.385	0.357

3000K Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
EU	0.435	0.427
	0.462	0.437
	0.456	0.426
	0.430	0.417
U3*	0.422	0.399
	0.434	0.403
	0.426	0.385
	0.415	0.381
U4*	0.430	0.417
	0.443	0.421
	0.434	0.403
	0.422	0.399
V3*	0.434	0.403
	0.447	0.408
	0.437	0.389
	0.426	0.385
V4*	0.443	0.421
	0.456	0.426
	0.447	0.408
	0.434	0.403
DV	0.415	0.381
	0.437	0.389
	0.431	0.377
	0.409	0.369

2700K Chromaticity Bins		
Bin Code (WW)	CIE _x	CIE _y
EW	0.462	0.437
	0.488	0.444
	0.481	0.432
	0.456	0.426
W3*	0.447	0.408
	0.458	0.410
	0.448	0.392
	0.437	0.389
W4*	0.456	0.426
	0.469	0.429
	0.458	0.410
	0.447	0.408
Y3*	0.458	0.410
	0.470	0.413
	0.459	0.394
	0.448	0.392
Y4*	0.469	0.429
	0.481	0.432
	0.470	0.413
	0.458	0.410
DY	0.437	0.389
	0.459	0.394
	0.452	0.382
	0.431	0.377

* Sub-bins within ANSI defined quadrangles per ANSI C78.377-200

PhlatLight Monochromatic Wavelength Binning Structure

All monochromatic PhlatLight LEDs are tested for dominant wavelength and placed into one of the following wavelength bins. The binning structure is consistent across the full monochromatic PhlatLight product line, however not all wavelength bins are available for each product. Consult the specific product datasheet for the list of wavelength bins for the specific product.

Red Wavelength Bins

Wavelength Bin Code (WW)	Minimum Wavelength	Maximum Wavelength
R2	611	615
R3	615	619
R4	619	623
R5	623	627
R6	627	631
R7	631	635

Green Wavelength Bins

Wavelength Bin Code (WW)	Minimum Wavelength	Maximum Wavelength
G2	510	515
G3	515	520
G4	520	525
G5	525	530
G6	530	535
G7	535	540
G8	540	545

Blue Wavelength Bins

Wavelength Bin Code (WW)	Minimum Wavelength	Maximum Wavelength
B4	450	455
B5	455	460
B6	460	465
B7	465	470
B8	470	475

CBT-40 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the CBT-40 and the flux and wavelength bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

CBT-40-X-C21-XX123

Color	Luminous Flux		Wavelength Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
Red	HD	165	R2, R3, R4, R5, R6, R7	HD100
			R4, R5	HD101
	HE	215	R2, R3, R4, R5, R6, R7	HE100
			R4, R5	HE101
	HF	275	R2, R3, R4, R5, R6, R7	HF100
			R4, R5	HF101
Green	JD	500	G2, G3, G4, G5, G6, G7, G8	JD200
			G4, G5, G6, G7	JD201
	JE	640	G2, G3, G4, G5, G6, G7, G8	JE200
			G4, G5, G6, G7	JE201
	JF	775	G2, G3, G4, G5, G6, G7, G8	JF200
			G4, G5, G6, G7	JF201
Blue	KD	90	B4, B5, B6, B7, B8	KD300
			B5, B6, B7	KD301
	KE	120	B4, B5, B6, B7, B8	KE300
			B5, B6, B7	KE301
	KF	160	B4, B5, B6, B7, B8	KF300
			B5, B6, B7	KF301

CBT-90 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the CBT-90 and the flux and wavelength or chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength or chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength or chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

CBT-90-X-C11-XX123

Color	Luminous Flux		Wavelength Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
Red	HH	475	R2, R3, R4, R5, R6, R7	HH100
			R4, R5	HH101
	HJ	600	R2, R3, R4, R5, R6, R7	HJ100
			R4, R5	HJ101
	HK	770	R2, R3, R4, R5, R6, R7	HK100
			R4, R5	HK101
Green	JJ	1,500	G2, G3, G4, G5, G6, G7, G8	JJ200
			G4, G5, G6, G7	JJ201
	JK	2,000	G2, G3, G4, G5, G6, G7, G8	JK200
			G4, G5, G6, G7	JK201
	JM	2,300	G2, G3, G4, G5, G6, G7, G8	JM200
			G4, G5, G6, G7	JM201
Blue	KH	250	B4, B5, B6, B7, B8	KH300
			B5, B6, B7	KH301
	KJ	350	B4, B5, B6, B7, B8	KJ300
			B5, B6, B7	KJ301
	KK	450	B4, B5, B6, B7, B8	KK300
			B5, B6, B7	KK301
	KM	575	B4, B5, B6, B7, B8	KM300
			B5, B6, B7	KM301

CBT-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GP	1,200	F4, F3, G4, G3, EF, DG, DE, DF	GP100
			F4, F3, G4, G3, EF, DG	GP101
			F4, F3, G4, G3	GP102
	GQ	1,450	F4, F3, G4, G3, EF, DG, DE, DF	GQ100
			F4, F3, G4, G3, EF, DG	GQ101
			F4, F3, G4, G3	GQ102
	GR	1,750	F4, F3, G4, G3, EF, DG, DE, DF	GR100
			F4, F3, G4, G3, EF, DG	GR101
			F4, F3, G4, G3	GR102
White WDLS 6500K & 5700K Standard CRI (typ. 70)	GP	1,200	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GP150
	GQ	1,450	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GQ150
	GR	1,750	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GR150

CBT-120 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the CBT-120 and the flux and wavelength bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

CBT-120-x-C11-XX123

Color	Luminous Flux		Wavelength Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
Red	HJ	600	R2, R3, R4, R5, R6, R7	HJ100
			R4, R5	HJ101
	HK	770	R2, R3, R4, R5, R6, R7	HK100
			R4, R5	HK101
	HM	970	R2, R3, R4, R5, R6, R7	HM100
			R4, R5	HM101
Green	JJ	1,500	G2, G3, G4, G5, G6, G7, G8	JJ200
			G4, G5, G6, G7	JJ201
	JK	2,000	G2, G3, G4, G5, G6, G7, G8	JK200
			G4, G5, G6, G7	JK201
	JM	2,300	G2, G3, G4, G5, G6, G7, G8	JM200
			G4, G5, G6, G7	JM201
Blue	KJ	350	B4, B5, B6, B7, B8	KJ300
			B5, B6, B7	KJ301
	KK	450	B4, B5, B6, B7, B8	KK300
			B5, B6, B7	KK301
	KM	575	B4, B5, B6, B7, B8	KM300
			B5, B6, B7	KM301
	KN	700	B4, B5, B6, B7, B8	KN300
			B5, B6, B7	KN301

CST-90 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the CST-90 and the flux and chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength or chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength or chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

CST-90-X-C12-XX123

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GL	700	F4, F3, G4, G3, EF, DG, DE, DF	GL100
			F4, F3, G4, G3, EF, DG	GL101
			F4, F3, G4, G3	GL102
	GM	850	F4, F3, G4, G3, EF, DG, DE, DF	GM100
			F4, F3, G4, G3, EF, DG	GM101
			F4, F3, G4, G3	GM102
	GN	1,000	F4, F3, G4, G3, EF, DG, DE, DF	GN100
			F4, F3, G4, G3, EF, DG	GN101
			F4, F3, G4, G3	GN102
White W57S 5700K, Standard CRI (typ. 70)	GL	700	H4, H3, J4, J3, EH, DJ	GL200
			H4, H3, J4, J3	GL201
	GM	850	H4, H3, J4, J3, EH, DJ	GM200
			H4, H3, J4, J3	GM201
	GN	1,000	H4, H3, J4, J3, EH, DJ	GN200
			H4, H3, J4, J3	GN201
White WDLS 6500K & 5700K Standard CRI (typ. 70)	GL	700	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GL150
	GM	850	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GM150
	GN	1,000	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GN150
White WDLS 5700K & 5000K Standard CRI (typ. 70)	GL	700	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GL250
	GM	850	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GM250
	GN	1,000	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GN250

CST-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W45S 4500K, Standard CRI (typ. 70)	GL	700	N4, N3, P4, P3, EN, DP	GL400
			N4, N3, P4, P3	GL401
	GM	850	N4, N3, P4, P3, EN, DP	GM400
			N4, N3, P4, P3	GM401
	GN	1,000	N4, N3, P4, P3, EN, DP	GN400
			N4, N3, P4, P3	GN401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GL	700	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GL350
	GM	850	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GM350
	GN	1,000	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GN350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GL	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GL450
	GM	850	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GM450
	GN	1,000	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GN450
White WWTM 4500K & 4000K Moderate CRI (typ. 83)	GJ	500	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GJ450
	GK	600	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GK450
	GL	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GL450
White WWTM 4000K & 3500K Moderate CRI (typ. 83)	GJ	500	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GJ550
	GK	600	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GK550
	GL	700	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GL550
White W30M 3000K, Moderate CRI (typ. 83)	GJ	500	U4, U3, V4, V3, EU, DV	GJ700
			U4, U3, V4, V3	GJ701
	GK	600	U4, U3, V4, V3, EU, DV	GK700
			U4, U3, V4, V3	GK701
	GL	700	U4, U3, V4, V3, EU, DV	GL700
			U4, U3, V4, V3	GL701

CST-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GJ	500	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GJ650
	GK	600	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GK650
	GL	700	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GL650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GJ	500	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GJ750
	GK	600	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GK750
	GL	700	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GL750

SST-50 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the SST-50 and the flux and chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength or chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength or chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

SST-50-X-F21-XX123

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GG	350	F4, F3, G4, G3, EF, DG, DE, DF	GG100
			F4, F3, G4, G3, EF, DG	GG101
			F4, F3, G4, G3	GG102
	GH	425	F4, F3, G4, G3, EF, DG, DE, DF	GH100
			F4, F3, G4, G3, EF, DG	GH101
			F4, F3, G4, G3	GH102
	GJ	500	F4, F3, G4, G3, EF, DG, DE, DF	GJ100
			F4, F3, G4, G3, EF, DG	GJ101
			F4, F3, G4, G3	GJ102
White W57S 5700K, Standard CRI (typ. 70)	GG	350	H4, H3, J4, J3, EH, DJ	GG200
			H4, H3, J4, J3	GG201
	GH	425	H4, H3, J4, J3, EH, DJ	GH200
			H4, H3, J4, J3	GH201
	GJ	500	H4, H3, J4, J3, EH, DJ	GJ200
			H4, H3, J4, J3	GJ201
White WDLs 6500K & 5700K Standard CRI (typ. 70)	GG	350	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GG150
	GH	425	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GH150
	GJ	500	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GJ150
White WDLs 5700K & 5000K Standard CRI (typ. 70)	GG	350	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GG250
	GH	425	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GH250
	GJ	500	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GJ250

SST-50 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W45S 4500K, Standard CRI (typ. 70)	GG	350	N4, N3, P4, P3, EN, DP	GG400
			N4, N3, P4, P3	GG401
	GH	425	N4, N3, P4, P3, EN, DP	GH400
			N4, N3, P4, P3	GH401
	GJ	500	N4, N3, P4, P3, EN, DP	GJ400
			N4, N3, P4, P3	GJ401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GG	350	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GG350
	GH	425	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GH350
	GJ	500	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GJ350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GG	350	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GG450
	GH	425	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GH450
	GJ	500	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GJ450
White WWTM 4500K & 4000K Moderate CRI (typ. 83)	GF	275	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GF450
	GG	350	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GG450
	GH	425	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GH450
White WWTM 4000K & 3500K Moderate CRI (typ. 83)	GF	275	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GF550
	GG	350	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GG550
	GH	425	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GH550
White W30M 3000K, Moderate CRI (typ. 83)	GF	275	U4, U3, V4, V3, EU, DV	GF700
			U4, U3, V4, V3	GF701
	GG	350	U4, U3, V4, V3, EU, DV	GG700
			U4, U3, V4, V3	GG701
	GH	425	U4, U3, V4, V3, EU, DV	GH700
			U4, U3, V4, V3	GH701

SST-50 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GF	275	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GF650
	GG	350	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GG650
	GH	425	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GH650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GF	275	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GF750
	GG	350	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GG750
	GH	425	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GH750

SSR-50 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the SSR-50 and the flux and chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength or chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength or chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

SSR-50-X-R21-XX123

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GG	350	F4, F3, G4, G3, EF, DG, DE, DF	GG100
			F4, F3, G4, G3, EF, DG	GG101
			F4, F3, G4, G3	GG102
	GH	425	F4, F3, G4, G3, EF, DG, DE, DF	GH100
			F4, F3, G4, G3, EF, DG	GH101
			F4, F3, G4, G3	GH102
	GJ	500	F4, F3, G4, G3, EF, DG, DE, DF	GJ100
			F4, F3, G4, G3, EF, DG	GJ101
			F4, F3, G4, G3	GJ102
White W57S 5700K, Standard CRI (typ. 70)	GG	350	H4, H3, J4, J3, EH, DJ	GG200
			H4, H3, J4, J3	GG201
	GH	425	H4, H3, J4, J3, EH, DJ	GH200
			H4, H3, J4, J3	GH201
	GJ	500	H4, H3, J4, J3, EH, DJ	GJ200
			H4, H3, J4, J3	GJ201
White WDLS 6500K & 5700K Standard CRI (typ. 70)	GG	350	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GG150
	GH	425	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GH150
	GJ	500	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GJ150
White WDLS 5700K & 5000K Standard CRI (typ. 70)	GG	350	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GG250
	GH	425	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GH250
	GJ	500	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GJ250

SSR-50 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W45S 4500K, Standard CRI (typ. 70)	GG	350	N4, N3, P4, P3, EN, DP	GG400
			N4, N3, P4, P3	GG401
	GH	425	N4, N3, P4, P3, EN, DP	GH400
			N4, N3, P4, P3	GH401
	GJ	500	N4, N3, P4, P3, EN, DP	GJ400
			N4, N3, P4, P3	GJ401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GG	350	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GG350
	GH	425	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GH350
	GJ	500	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GJ350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GG	350	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GG450
	GH	425	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GH450
	GJ	500	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GJ450
White WWTM 4500K & 4000K Moderate CRI (typ. 83)	GF	275	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GF450
	GG	350	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GG450
	GH	425	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GH450
White WWTM 4000K & 3500K Moderate CRI (typ. 83)	GF	275	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GF550
	GG	350	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GG550
	GH	425	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GH550
White W30M 3000K, Moderate CRI (typ. 83)	GF	275	U4, U3, V4, V3, EU, DV	GF700
			U4, U3, V4, V3	GF701
	GG	350	U4, U3, V4, V3, EU, DV	GG700
			U4, U3, V4, V3	GG701
	GH	425	U4, U3, V4, V3, EU, DV	GH700
			U4, U3, V4, V3	GH701

SSR-50 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GF	275	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GF650
	GG	350	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GG650
	GH	425	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GH650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GF	275	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GF750
	GG	350	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GG750
	GH	425	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GH750

SST-90 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the SST-90 and the flux and chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength or chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength or chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

SST-90-X-F11-XX123

Color	Luminous Flux		Wavelength Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
Red	HG	350	R2, R3, R4, R5, R6, R7	HG100
			R4, R5	HG101
	HH	475	R2, R3, R4, R5, R6, R7	HH100
			R4, R5	HH101
	HJ	600	R2, R3, R4, R5, R6, R7	HJ100
			R4, R5	HJ101
Green	JF	775	G2, G3, G4, G5, G6, G7, G8	JF200
			G4, G5, G6, G7	JF201
	JG	940	G2, G3, G4, G5, G6, G7, G8	JG200
			G4, G5, G6, G7	JG201
	JH	1,200	G2, G3, G4, G5, G6, G7, G8	JH200
			G4, G5, G6, G7	JH201
Blue	KE	120	B4, B5, B6, B7, B8	KE300
			B5, B6, B7	KE301
	KF	160	B4, B5, B6, B7, B8	KF300
			B5, B6, B7	KF301
	KG	200	B4, B5, B6, B7, B8	KG300
			B5, B6, B7	KG301

SST-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GL	700	F4, F3, G4, G3, EF, DG, DE, DF	GL100
			F4, F3, G4, G3, EF, DG	GL101
			F4, F3, G4, G3	GL102
	GM	850	F4, F3, G4, G3, EF, DG, DE, DF	GM100
			F4, F3, G4, G3, EF, DG	GM101
			F4, F3, G4, G3	GM102
	GN	1,000	F4, F3, G4, G3, EF, DG, DE, DF	GN100
			F4, F3, G4, G3, EF, DG	GN101
			F4, F3, G4, G3	GN102
White W57S 5700K, Standard CRI (typ. 70)	GL	700	H4, H3, J4, J3, EH, DJ	GL200
			H4, H3, J4, J3	GL201
	GM	850	H4, H3, J4, J3, EH, DJ	GM200
			H4, H3, J4, J3	GM201
	GN	1,000	H4, H3, J4, J3, EH, DJ	GN200
			H4, H3, J4, J3	GN201
White WDLS 6500K & 5700K Standard CRI (typ. 70)	GL	700	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GL150
	GM	850	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GM150
	GN	1,000	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GN150
White WDLS 5700K & 5000K Standard CRI (typ. 70)	GL	700	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GL250
	GM	850	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GM250
	GN	1,000	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GN250

SST-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W45S 4500K, Standard CRI (typ. 70)	GL	700	N4, N3, P4, P3, EN, DP	GL400
			N4, N3, P4, P3	GL401
	GM	850	N4, N3, P4, P3, EN, DP	GM400
			N4, N3, P4, P3	GM401
	GN	1,000	N4, N3, P4, P3, EN, DP	GN400
			N4, N3, P4, P3	GN401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GL	700	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GL350
	GM	850	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GM350
	GN	1,000	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GN350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GL	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GL450
	GM	850	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GM450
	GN	1,000	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GN450
White WWTM 4500K & 4000K Moderate CRI (typ. 83)	GJ	500	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GJ450
	GK	600	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GK450
	GL	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GL450
White WWTM 4000K & 3500K Moderate CRI (typ. 83)	GJ	500	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GJ550
	GK	600	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GK550
	GL	700	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GL550
White W30M 3000K, Moderate CRI (typ. 83)	GJ	500	U4, U3, V4, V3, EU, DV	GJ700
			U4, U3, V4, V3	GJ701
	GK	600	U4, U3, V4, V3, EU, DV	GK700
			U4, U3, V4, V3	GK701
	GL	700	U4, U3, V4, V3, EU, DV	GL700
			U4, U3, V4, V3	GL701

SST-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GJ	500	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GJ650
	GK	600	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GK650
	GL	700	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GL650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GJ	500	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GJ750
	GK	600	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GK750
	GL	700	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GL750

SSR-90 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the SSR-90 and the flux and chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength or chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength or chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

SSR-90-X-R11-XX123

Color	Luminous Flux		Wavelength Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
Red	HG	350	R2, R3, R4, R5, R6, R7	HG100
			R4, R5	HG101
	HH	475	R2, R3, R4, R5, R6, R7	HH100
			R4, R5	HH101
	HJ	600	R2, R3, R4, R5, R6, R7	HJ100
			R4, R5	HJ101
Green	JF	775	G2, G3, G4, G5, G6, G7, G8	JF200
			G4, G5, G6, G7	JF201
	JG	940	G2, G3, G4, G5, G6, G7, G8	JG200
			G4, G5, G6, G7	JG201
	JH	1,200	G2, G3, G4, G5, G6, G7, G8	JH200
			G4, G5, G6, G7	JH201
Blue	KE	120	B4, B5, B6, B7, B8	KE300
			B5, B6, B7	KE301
	KF	160	B4, B5, B6, B7, B8	KF300
			B5, B6, B7	KF301
	KG	200	B4, B5, B6, B7, B8	KG300
			B5, B6, B7	KG301

SSR-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GL	700	F4, F3, G4, G3, EF, DG, DE, DF	GL100
			F4, F3, G4, G3, EF, DG	GL101
			F4, F3, G4, G3	GL102
	GM	850	F4, F3, G4, G3, EF, DG, DE, DF	GM100
			F4, F3, G4, G3, EF, DG	GM101
			F4, F3, G4, G3	GM102
	GN	1,000	F4, F3, G4, G3, EF, DG, DE, DF	GN100
			F4, F3, G4, G3, EF, DG	GN101
			F4, F3, G4, G3	GN102
White W57S 5700K, Standard CRI (typ. 70)	GL	700	H4, H3, J4, J3, EH, DJ	GL200
			H4, H3, J4, J3	GL201
	GM	850	H4, H3, J4, J3, EH, DJ	GM200
			H4, H3, J4, J3	GM201
	GN	1,000	H4, H3, J4, J3, EH, DJ	GN200
			H4, H3, J4, J3	GN201
White WDLS 6500K & 5700K Standard CRI (typ. 70)	GL	700	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GL150
	GM	850	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GM150
	GN	1,000	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GN150
White WDLS 5700K & 5000K Standard CRI (typ. 70)	GL	700	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GL250
	GM	850	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GM250
	GN	1,000	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GN250

SSR-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W45S 4500K, Standard CRI (typ. 70)	GL	700	N4, N3, P4, P3, EN, DP	GL400
			N4, N3, P4, P3	GL401
	GM	850	N4, N3, P4, P3, EN, DP	GM400
			N4, N3, P4, P3	GM401
	GN	1,000	N4, N3, P4, P3, EN, DP	GN400
			N4, N3, P4, P3	GN401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GL	700	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GL350
	GM	850	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GM350
	GN	1,000	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GN350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GL	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GL450
	GM	850	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GM450
	GN	1,000	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GN450
White WWTM 4500K & 4000K Moderate CRI (typ. 83)	GJ	500	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GJ450
	GK	600	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GK450
	GL	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GL450
White WWTM 4000K & 3500K Moderate CRI (typ. 83)	GJ	500	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GJ550
	GK	600	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GK550
	GL	700	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GL550
White W30M 3000K, Moderate CRI (typ. 83)	GJ	500	U4, U3, V4, V3, EU, DV	GJ700
			U4, U3, V4, V3	GJ701
	GK	600	U4, U3, V4, V3, EU, DV	GK700
			U4, U3, V4, V3	GK701
	GL	700	U4, U3, V4, V3, EU, DV	GL700
			U4, U3, V4, V3	GL701

SSR-90 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GJ	500	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GJ650
	GK	600	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GK650
	GL	700	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GL650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GJ	500	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GJ750
	GK	600	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GK750
	GL	700	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GL750

CBM-360 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the CBM-360 and the flux and chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

CBM-360-X-D12-XX123

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GU	3,000	F4, F3, G4, G3, EF, DG, DE, DF	GU100
			F4, F3, G4, G3, EF, DG	GU101
			F4, F3, G4, G3	GU102
	GV	3,600	F4, F3, G4, G3, EF, DG, DE, DF	GV100
			F4, F3, G4, G3, EF, DG	GV101
			F4, F3, G4, G3	GV102
	GX	4,300	F4, F3, G4, G3, EF, DG, DE, DF	GX100
			F4, F3, G4, G3, EF, DG	GX101
			F4, F3, G4, G3	GX102
White WDLS 6500K & 5700K Standard CRI (typ. 70)	GU	3,000	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GU150
	GV	3,600	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GV150
	GX	4,300	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GX150

CSM-360 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the CSM-360 and the flux and chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

CSM-360-X-D22-XX123

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White W65S 6500K, Standard CRI (typ. 70)	GT	2,500	F4, F3, G4, G3, EF, DG, DE, DF	GT100
			F4, F3, G4, G3, EF, DG	GT101
			F4, F3, G4, G3	GT102
	GU	3,000	F4, F3, G4, G3, EF, DG, DE, DF	GU100
			F4, F3, G4, G3, EF, DG	GU101
			F4, F3, G4, G3	GU102
	GV	3,600	F4, F3, G4, G3, EF, DG, DE, DF	GV100
			F4, F3, G4, G3, EF, DG	GV101
			F4, F3, G4, G3	GV102
White W57S 5700K, Standard CRI (typ. 70)	GT	2,500	H4, H3, J4, J3, EH, DJ	GT200
			H4, H3, J4, J3	GT201
	GU	3,000	H4, H3, J4, J3, EH, DJ	GU200
			H4, H3, J4, J3	GU201
	GV	3,600	H4, H3, J4, J3, EH, DJ	GV200
			H4, H3, J4, J3	GV201
White WDLS 6500K & 5700K Standard CRI (typ. 70)	GT	2,500	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GT150
	GU	3,000	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GU150
	GV	3,600	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GV150
White WDLS 5700K & 5000K Standard CRI (typ. 70)	GT	2,500	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GT250
	GU	3,000	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GU250
	GV	3,600	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GV250

CSM-360 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
White W45S 4500K, Standard CRI (typ. 70)	GT	2,500	N4, N3, P4, P3, EN, DP	GT400
			N4, N3, P4, P3	GT401
	GU	3,000	N4, N3, P4, P3, EN, DP	GU400
			N4, N3, P4, P3	GU401
	GV	3,600	N4, N3, P4, P3, EN, DP	GV400
			N4, N3, P4, P3	GV401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GT	2,500	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GT350
	GU	3,000	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GU350
	GV	3,600	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GV350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GT	2,500	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GT450
	GU	3,000	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GU450
	GV	3,600	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GV450
White WWTM 4500K & 4000K Moderate CRI (typ. 83)	GR	1,750	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GR450
	GS	2,100	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GS450
	GT	2,500	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GT450
White WWTM 4000K & 3500K Moderate CRI (typ. 83)	GR	1,750	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GR550
	GS	2,100	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GS550
	GT	2,500	Q3, Q4, R3, R4, DR, EQ S3, S4, T3, T4, DT, ES	GT550
White W30M 3000K, Moderate CRI (typ. 83)	GR	1,750	U4, U3, V4, V3, EU, DV	GR700
			U4, U3, V4, V3	GR701
	GS	2,100	U4, U3, V4, V3, EU, DV	GS700
			U4, U3, V4, V3	GS701
	GT	2,500	U4, U3, V4, V3, EU, DV	GT700
			U4, U3, V4, V3	GT701

CSM-360 Bin Kit Order Codes

Color	Luminous Flux		Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GR	1,750	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GR650
	GS	2,100	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GS650
	GT	2,500	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GT650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GR	1,750	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GR750
	GS	2,100	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GS750
	GT	2,500	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GT750

CBM-380 Bin Kit Order Codes

The following tables describe the bin kit ordering codes for the CBM-380 and the flux and wavelength or chromaticity bins included in the bin kit. Each kit specifies a minimum flux and the listed wavelength or chromaticity bins. A maximum flux is not specified. Within each kit, Luminus may ship any part meeting or exceeding the minimum flux specification. Shipments will always meet the listed wavelength or chromaticity bins. For information on ordering bin kits not listed below, please contact Luminus or an official distributor.

CBM-380-RGBW-D11-XX123

Color	Luminous Flux		Wavelength/Chromaticity Bins	Kit Number
	Bin Kit Flux Code	Minimum Flux		
Red	QF	475	R2, R3, R4, R5, R6, R7	QF100
Green		1,200	G2, G3, G4, G5, G6, G7, G8	
Blue		90	B4, B5, B6, B7, B8	
White Cool White, Standard CRI (typ. 70)		1,000	F4, F3, G4, G3, EF, DG, DE, DF, H4, H3, J4, J3, EH, DJ	
Red	QG	600	R4, R5	QG101
Green		1,500	G4, G5, G6, G7	
Blue		120	B5, B6, B7	
White 6500K, Standard CRI (typ. 70)		1,000	F4, F3, G4, G3	

The products, their specifications and other information appearing in this document are subject to change by Luminus Devices without notice. Luminus Devices assumes no liability for errors that may appear in this document, and no liability otherwise arising from the application or use of the product or information contained herein. None of the information provided herein should be considered to be a representation of the fitness or suitability of the product for any particular application or as any other form of warranty. Luminus Devices' product warranties are limited to only such warranties as accompany a purchase contract or purchase order for such products. Nothing herein is to be construed as constituting an additional warranty. No information contained in this publication may be considered as a waiver by Luminus Devices of any intellectual property rights that Luminus Devices may have in such information. PhlatLight® is a registered trademark of Luminus Devices, Inc., all rights reserved.

This product is protected by U.S. Patents 6,831,302; 7,074,631; 7,083,993; 7,084,434; 7,098,589; 7,105,861; 7,138,666; 7,166,870; 7,166,871; 7,170,100; 7,196,354; 7,211,831; 7,262,550; 7,274,043; 7,301,271; 7,341,880; 7,344,903; 7,345,416; 7,348,603; 7,388,233; 7,391,059; Patents Pending in the U.S. and other countries.

www.luminus.com