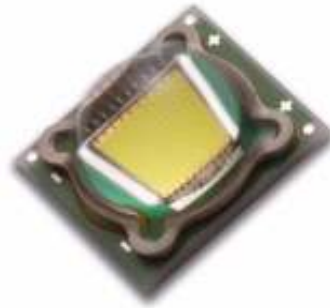


SST-90 LED Binning and Labeling



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.

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Table of Products

Product	Ordering Part Number	Description
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-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-W30M	SSR-90-W30M-R11-X X 1 2 3	
SSR-90-WWRM	SSR-90-WWRM-R11-X X 1 2 3	

SST-90 Shipping and Labeling Nomenclature

All SST-90 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 8 — I 9

Product Family	Chip Area	Color	Package Configuration	Flux Bin	Wavelength/ Chromaticity Bin
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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 8- Flux bin
Wavelength/ Chromaticity Bin	I 9 - Wavelength / Chromaticity bin

Example:

The part number SST-90-W65S-F11-WN1-G4 refers to a 6500K standard CRI white, SST-90 emitter, F11 package configuration, with a minimum flux value of 900 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).

SST-90 Bin Kit Ordering Nomenclature

All SST-90 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
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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 700 lumens and falling in the F4, F3, G4, G3, EF, and DG chromaticity bins.

SST-90 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)	Composite Bin Code	Minimum Luminous Flux	Maximum Luminous Flux
WF	-	220	275
WG	-	275	350
WH	-	350	425
WJ	-	425	500
WK	WK1, WK2, WK3	500	600
WL	WL1, WL2, WL3	600	700
WM	WM1, WM2, WM3	700	850
WN	WN1, WN2, WN3	850	1,000
WP	WP1, WP2, WP3	1,000	1,200
WQ	-	1,200	1,450
WR	-	1,450	1,750
WS	-	1,750	2,100
WT	-	2,100	2,500
WU	-	2,500	3,000
WV	-	3,000	3,600
WX	-	3,600	4,300
WY	-	4,300	5,100

•Note: Luminus maintains a tolerance of +/- 6% on flux measurements.

SST-90 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
BD	120	165
BE	165	215
BF	215	275
BG	275	350
BH	350	475
BJ	475	600
BK	600	770
BM	770	970
BN	970	1,150
BP	1,150	1,350
BQ	1,350	1,570
BR	1,570	1,850

Green Flux Bins

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

•Note: Luminus maintains a tolerance of +/- 6% on flux measurements.

Blue Flux Bins

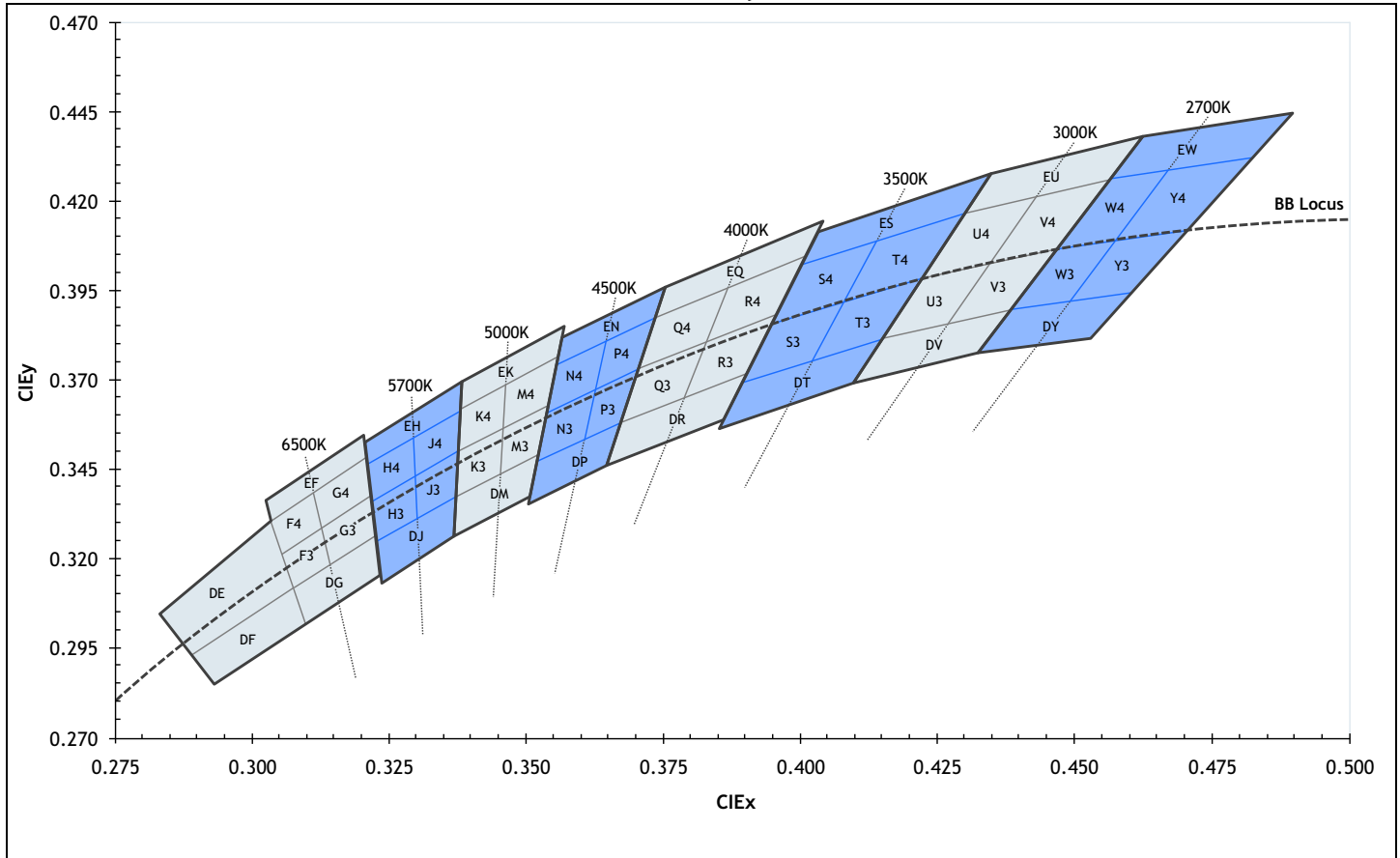
Flux Bin Code (FF)	Minimum Luminous Flux	Maximum Luminous Flux
DD	70	90
DE	90	120
DF	120	160
DG	160	200
DH	200	250
DJ	250	350
DK	350	450
DM	450	575
DN	575	700
DP	700	800
DQ	800	925

•Note: Luminus maintains a tolerance of +/- 6% on all flux measurements.

SST-90 White Chromaticity Binning Structure

All white SST-90 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
	0.321	0.335
H3*	0.329	0.342
	0.329	0.331
	0.322	0.324
	0.321	0.346
H4*	0.329	0.354
	0.329	0.342
	0.321	0.335
	0.329	0.342
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

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

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

SST-90 Monochromatic Wavelength Binning Structure

All monochromatic SST-90 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

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

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	275	R2, R3, R4, R5, R6, R7	HG100
			R4, R5	HG101
	HH	350	R2, R3, R4, R5, R6, R7	HH100
			R4, R5	HH101
	HJ	475	R2, R3, R4, R5, R6, R7	HJ100
			R4, R5	HJ101
Green	JG	775	G2, G3, G4, G5, G6, G7, G8	JG200
			G4, G5, G6, G7	JG201
	JH	940	G2, G3, G4, G5, G6, G7, G8	JH200
			G4, G5, G6, G7	JH201
	JJ	1200	G2, G3, G4, G5, G6, G7, G8	JJ200
			G4, G5, G6, G7	JJ201
Blue	KE	90	B4, B5, B6, B7, B8	KE300
			B5, B6, B7	KE301
	KF	120	B4, B5, B6, B7, B8	KF300
			B5, B6, B7	KF301
	KG	160	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)	GM	700	F4, F3, G4, G3, EF, DG, DE, DF	GM100
			F4, F3, G4, G3, EF, DG	GM101
			F4, F3, G4, G3	GM102
	GN	850	F4, F3, G4, G3, EF, DG, DE, DF	GN100
			F4, F3, G4, G3, EF, DG	GN101
			F4, F3, G4, G3	GN102
	GP	1,000	F4, F3, G4, G3, EF, DG, DE, DF	GP100
			F4, F3, G4, G3, EF, DG	GP101
			F4, F3, G4, G3	GP102
White W57S 5700K, Standard CRI (typ. 70)	GM	700	H4, H3, J4, J3, EH, DJ	GM200
			H4, H3, J4, J3	GM201
	GN	850	H4, H3, J4, J3, EH, DJ	GN200
			H4, H3, J4, J3	GN201
	GP	1,000	H4, H3, J4, J3, EH, DJ	GP200
			H4, H3, J4, J3	GP201
White WDL5 6500K & 5700K Standard CRI (typ. 70)	GM	700	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GM150
	GN	850	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GN150
	GP	1,000	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GP150
White WDL5 5700K & 5000K Standard CRI (typ. 70)	GM	700	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GM250
	GN	850	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GN250
	GP	1,000	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GP250

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)	GM	700	N4, N3, P4, P3, EN, DP	GM400
			N4, N3, P4, P3	GM401
	GN	850	N4, N3, P4, P3, EN, DP	GN400
			N4, N3, P4, P3	GN401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GM	700	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GM350
	GN	850	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GN350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GM	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GM450
	GN	850	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GN450
White W30M 3000K, Moderate CRI (typ. 83)	GK	500	U4, U3, V4, V3, EU, DV	GK700
			U4, U3, V4, V3	GK701
	GL	600	U4, U3, V4, V3, EU, DV	GL700
			U4, U3, V4, V3	GL701
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GK	500	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GK650
	GL	600	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GL650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GK	500	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GK750
	GL	600	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	275	R2, R3, R4, R5, R6, R7	HG100
			R4, R5	HG101
	HH	350	R2, R3, R4, R5, R6, R7	HH100
			R4, R5	HH101
	HJ	475	R2, R3, R4, R5, R6, R7	HJ100
			R4, R5	HJ101
Green	JF	640	G2, G3, G4, G5, G6, G7, G8	JF200
			G4, G5, G6, G7	JF201
	JG	775	G2, G3, G4, G5, G6, G7, G8	JG200
			G4, G5, G6, G7	JG201
	JH	940	G2, G3, G4, G5, G6, G7, G8	JH200
			G4, G5, G6, G7	JH201
Blue	KE	90	B4, B5, B6, B7, B8	KE300
			B5, B6, B7	KE301
	KF	120	B4, B5, B6, B7, B8	KF300
			B5, B6, B7	KF301
	KG	160	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)	GM	700	F4, F3, G4, G3, EF, DG, DE, DF	GM100
			F4, F3, G4, G3, EF, DG	GM101
			F4, F3, G4, G3	GM102
	GN	850	F4, F3, G4, G3, EF, DG, DE, DF	GN100
			F4, F3, G4, G3, EF, DG	GN101
			F4, F3, G4, G3	GN102
	GP	1,000	F4, F3, G4, G3, EF, DG, DE, DF	GP100
			F4, F3, G4, G3, EF, DG	GP101
			F4, F3, G4, G3	GP102
White W57S 5700K, Standard CRI (typ. 70)	GM	700	H4, H3, J4, J3, EH, DJ	GM200
			H4, H3, J4, J3	GM201
	GN	850	H4, H3, J4, J3, EH, DJ	GN200
			H4, H3, J4, J3	GN201
	GP	1,000	H4, H3, J4, J3, EH, DJ	GP200
			H4, H3, J4, J3	GP201
White WDL5 6500K & 5700K Standard CRI (typ. 70)	GM	700	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GM150
	GN	850	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GN150
	GP	1,000	F4, F3, G4, G3, EF, DG, DE, DF H3, H4, J3, J4, DJ, EH	GP150
White WDL5 5700K & 5000K Standard CRI (typ. 70)	GM	700	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GM250
	GN	850	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GN250
	GP	1,000	H3, H4, J3, J4, DJ, EH K3, K4, M3, M4, DM, EK	GP250

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)	GM	700	N4, N3, P4, P3, EN, DP	GM400
			N4, N3, P4, P3	GM401
	GN	850	N4, N3, P4, P3, EN, DP	GN400
			N4, N3, P4, P3	GN401
White WCLS 5000K & 4500K Standard CRI (typ. 70)	GM	700	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GM350
	GN	850	K3, K4, M3, M4, DM, EK N3, N4, P3, P4, DP, EN	GN350
White WCLS 4500K & 4000K Standard CRI (typ. 70)	GM	700	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GM450
	GN	850	N3, N4, P3, P4, DP, EN Q3, Q4, R3, R4, DR, EQ	GN450
White W30M 3000K, Moderate CRI (typ. 83)	GK	500	U4, U3, V4, V3, EU, DV	GK700
			U4, U3, V4, V3	GK701
	GL	600	U4, U3, V4, V3, EU, DV	GL700
			U4, U3, V4, V3	GL701
White WWRM 3500K & 3000K Moderate CRI (typ. 83)	GK	500	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GK650
	GL	600	S3, S4, T3, T4, DT, ES U3, U4, V3, V4, DV, EU	GL650
White WWRM 3000K & 2700K Moderate CRI (typ. 83)	GK	500	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GK750
	GL	600	U3, U4, V3, V4, DV, EU W3, W4, Y3, Y4, DY, EW	GL750

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