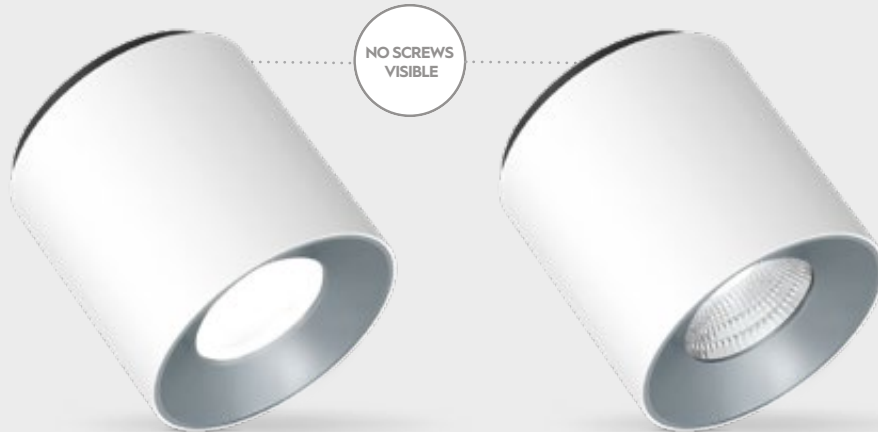


**FEATURES**

- Reliable solution without power supply
- Smooth flicker-free dimming to 0,1%
- Practically no inrush current
- Warm dim version available



LV 80° (On request)

LV 18° / 37° / 60°

**COLOURS**

Available colours:



Nr	Housing	Inside ring
	RAL 9016	
XX=61	Matt white / Gold	
XX=63	Matt white / Silver	
XX=62	Matt white / Black	
XX=65	Matt white / White	



Nr	Housing	Inside ring
	RAL 9005	
XX=71	Matt black / Gold	
XX=74	Matt black / Silver	
XX=72	Matt black / Black	
XX=76	Matt black / White	

# Vector CL 145 LV(-HE) (Gen2)

Surface mounted

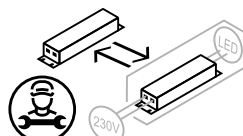
## SPECIFICATIONS

Beam angle (FWHM)	18° / 37° / 60° / 80°
Fixture material	Die cast aluminium / Glass
Environment	Indoor
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C <sup>1</sup>
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years * (within the European Union and the countries of the Free Trade Association for products delivered after 1 May 2015)
Energy class	These products contains a light source of energy efficiency class F (CRI97 2700K/3000K) / E (CRI97 4000K)

This luminaire contains built-in LED lamps. There are no exchangeable parts inside the luminaire. EU 874/2012

<sup>1</sup> In applications with a flat roof (f.i. car showrooms) the temperatures may exceed 45°C. Please ask our sales office for a special driver.

Ask our sales department about the possibilities for:  
- High CRI LED options



IP20

**CRI82 VARIATIONS**

Vector CL 145 LV-HE 2700K CRI97 2250LM	page 3
Vector CL 145 LV-HE 3000K CRI97 2325LM	page 4
Vector CL 145 LV-HE 4000K CRI97 2350LM	page 5

**CRI97 VARIATIONS**

Vector CL 145 LV 2700K CRI97 1625LM	page 6
Vector CL 145 LV 3000K CRI97 1800LM	page 7
Vector CL 145 LV 4000K CRI97 1925LM	page 8

**CRI82 CHOOSE YOUR LV LUMEN OUTPUT**

	mA	W	Lumen Output			Lumen / Watt			UGR				Driver types					
			2700K	3000K	4000K	2700K	3000K	4000K	3000K				No dim	Triac	1-10V & Push	Dali	Casambi	
									18°	37°	60°	80°						
Special request	125	4,5	625	650	675	140	145	151						127570	x	x	x	x
Special request	150	5,4	750	775	800	139	144	149						CC21W150-500	x	x	x	x
Special request	200	7,2	1000	1025	1050	139	142	145						CC21W150-500	x	x	x	x
Special request	250	9,1	1225	1250	1275	135	138	140						CC21W150-500	x	x	127576	x
Special request	300	11,0	1450	1500	1525	132	137	139						CC21W150-500	x	125400	127576	127630
Special request	350	12,9	1650	1725	1750	128	134	136						CC21W150-500	127030	125400	127576	127630
Special request	400	15,6	1900	1975	2000	122	126	128						CC21W150-500	x	125400	127576	127630
Special request	450	17,8	2075	2150	2175	116	120	122						CC21W150-500	x	125400	127576	127630
Standard	500	19,7	2250	2325	2350	114	118	120	12.8	12.7	15.9	22.6	122198	x	125400	123403 <sup>1</sup>	x	

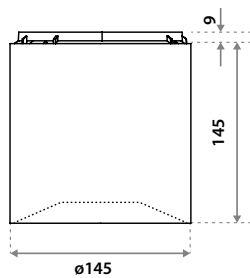
<sup>1</sup> For other current settings check the TCI website or contact our sales department.

**CRI97 CHOOSE YOUR LV LUMEN OUTPUT**

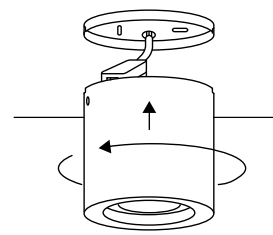
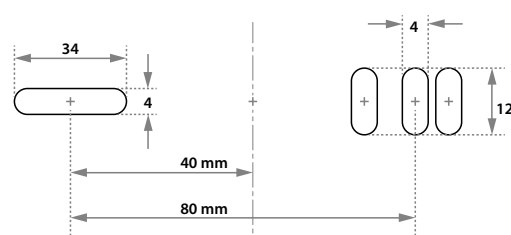
	mA	W	Lumen Output			Lumen / Watt			UGR				Driver types					
			2700K	3000K	4000K	2700K	3000K	4000K	3000K				No dim	Triac	1-10V & Push	Dali	Casambi	
									18°	37°	60°	80°						
Special request	125	5,0	475	500	525	95	100	105						127570	x	x	x	x
Special request	150	6,1	550	575	625	91	95	103						CC21W150-500	x	x	x	x
Special request	200	8,1	700	750	825	86	93	102						CC21W150-500	x	x	x	x
Special request	250	9,8	850	900	1000	87	92	102						CC21W150-500	x	x	127576	x
Special request	300	12,0	1050	1100	1200	88	92	100						CC21W150-500	x	125400	127576	127630
Special request	350	13,8	1150	1250	1350	83	91	98						CC21W150-500	127030	125400	127576	127630
Special request	400	15,8	1300	1425	1550	82	90	98						CC21W150-500	x	125400	127576	127630
Special request	450	18,0	1475	1600	1750	82	89	97						CC21W150-500	x	125400	127576	127630
Standard	500	20,1	1625	1800	1925	81	89	96	11.9	11.8	15.8	21.7	122198	x	125400	123403 <sup>1</sup>	x	

<sup>1</sup> For other current settings check the TCI website or contact our sales department.

**DIMENSIONS**



**FIXATION DIMENSIONS**



**VECTOR CL 145 LV-HE**

**2700K CRI82 2250LM**

**ITEM SPECIFICATIONS (PART A)**

Description	18°		37°		60°		80°		Type	mA	Vf
	Item code	UGR	Item code	UGR	Item code	UGR	Item code	UGR			
Vector CL 145 LV-HE 2250Lm CRI82 2700K No dim*	7DN903XXDR02	12.7	7DN903XXDS02	12.6	7DN903XXDT02	15.8	7DN903XXY902	22.5	Incl. PSU	500	35,3
Vector CL 145 LV-HE 2250Lm CRI82 2700K 1-10V & Push	7DN903XXSV02	12.7	7DN903XXSW02	12.6	7DN903XXSX02	15.8	7DN903XXZA02	22.5	Incl. PSU	500	35,3
Vector CL 145 LV-HE 2250Lm CRI82 2700K Dali	7DN903XXSY02	12.7	7DN903XXSZ02	12.6	7DN903XXS002	15.8	7DN903XXZB02	22.5	Incl. PSU	500	35,3

**ITEM SPECIFICATIONS (PART B)**

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Vector CL 145 LV-HE 2250Lm CRI82 2700K No dim*	19.7	2250	114	82	0.95	<20%	2A 50µS	50 pcs	II	F
Vector CL 145 LV-HE 2250Lm CRI82 2700K 1-10V & Push	19.7	2250	114	82	0.95	<3%	5A 50µS	50 pcs	II	F
Vector CL 145 LV-HE 2250Lm CRI82 2700K Dali	19.7	2250	114	82	0.95	<3%	5A 50µS	50 pcs	II	F

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Vector CL 145 LV-HE 2250Lm CRI82 2700K	1200 gr	185x185x160 mm	12 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%). \*Triac and casambi versions on request

**VECTOR CL 145 LV-HE**

**3000K CRI82 2325LM**

**ITEM SPECIFICATIONS (PART A)**

Description	18°		37°		60°		80°		Type	mA	Vf
	Item code	UGR	Item code	UGR	Item code	UGR	Item code	UGR			
Vector CL 145 LV-HE 2325Lm CRI82 3000K No dim*	7DN903XXCA02	12.8	7DN903XXCB02	12.7	7DN903XXCC02	15.9	7DN903XXYR02	22.6	Incl. PSU	500	35,3
Vector CL 145 LV-HE 2325Lm CRI82 3000K 1-10V & Push	7DN903XXNA02	12.8	7DN903XXNB02	12.7	7DN903XXNC02	15.9	7DN903XXYH02	22.6	Incl. PSU	500	35,3
Vector CL 145 LV-HE 2325Lm CRI82 3000K Dali	7DN903XXPA02	12.8	7DN903XXPB02	12.7	7DN903XXPC02	15.9	7DN903XXYM02	22.6	Incl. PSU	500	35,3

**ITEM SPECIFICATIONS (PART B)**

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Vector CL 145 LV-HE 2325Lm CRI82 3000K No dim*	19.7	2325	118	82	0.95	<20%	2A 50µS	50 pcs	II	F
Vector CL 145 LV-HE 2325Lm CRI82 3000K 1-10V & Push	19.7	2325	118	82	0.95	<3%	5A 50µS	50 pcs	II	F
Vector CL 145 LV-HE 2325Lm CRI82 3000K Dali	19.7	2325	118	82	0.95	<3%	5A 50µS	50 pcs	II	F

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Vector CL 145 LV-HE 2325Lm CRI82 3000K	1200 gr	185x185x160 mm	12 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%). \*Triac and casambi versions on request

**VECTOR CL 145 LV-HE**

**4000K CRI82 2350LM**

**ITEM SPECIFICATIONS (PART A)**

Description	18°		37°		60°		80°		Type	mA	Vf
	Item code	UGR	Item code	UGR	Item code	UGR	Item code	UGR			
Vector CL 145 LV-HE 2350Lm CRI82 4000K No dim*	7DN903XXCD02	12.8	7DN903XXCE02	12.7	7DN903XXCF02	15.9	7DN903XXYY02	22.7	Incl. PSU	500	35,3
Vector CL 145 LV-HE 2350Lm CRI82 4000K 1-10V & Push	7DN903XXND02	12.8	7DN903XXNE02	12.7	7DN903XXNF02	15.9	7DN903XXYU02	22.7	Incl. PSU	500	35,3
Vector CL 145 LV-HE 2350Lm CRI82 4000K Dali	7DN903XXPD02	12.8	7DN903XXPE02	12.7	7DN903XXPF02	15.9	7DN903XXYW02	22.7	Incl. PSU	500	35,3

**ITEM SPECIFICATIONS (PART B)**

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Vector CL 145 LV-HE 2350Lm CRI82 4000K No dim*	19.7	2350	120	82	0.95	<20%	2A 50µS	50 pcs	II	E
Vector CL 145 LV-HE 2350Lm CRI82 4000K 1-10V & Push	19.7	2350	120	82	0.95	<3%	5A 50µS	50 pcs	II	E
Vector CL 145 LV-HE 2350Lm CRI82 4000K Dali	19.7	2350	120	82	0.95	<3%	5A 50µS	50 pcs	II	E

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Vector CL 145 LV-HE 2350Lm CRI82 4000K	1200 gr	185x185x160 mm	12 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%). \*Triac and casambi versions on request

**VECTOR CL 145 LV**

**2700K CRI97 1625LM**

**ITEM SPECIFICATIONS (PART A)**

Description	18°		37°		60°		80°		Type	mA	Vf
	Item code	UGR	Item code	UGR	Item code	UGR	Item code	UGR			
Vector CL 145 LV 1625Lm CRI97 2700K No dim*	7D1B03XXA102	11.5	7D1B03XXA402	11.5	7D1B03XXA702	14.6	7D1B03XX0H02	21.4	Incl. PSU	500	35,3
Vector CL 145 LV 1625Lm CRI97 2700K 1-10V & Push	7D1B03XXD102	11.5	7D1B03XXD402	11.5	7D1B03XXD702	14.6	7D1B03XX0L02	21.4	Incl. PSU	500	35,3
Vector CL 145 LV 1625Lm CRI97 2700K Dali	7D1B03XXI102	11.5	7D1B03XXI1P02	11.5	7D1B03XXI1S02	14.6	7D1B03XX0P02	21.4	Incl. PSU	500	35,3

**ITEM SPECIFICATIONS (PART B)**

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Vector CL 145 LV 1625Lm CRI97 2700K No dim*	20,1	1625	81	97	0.95	<20%	2A 50µS	50 pcs	II	F
Vector CL 145 LV 1625Lm CRI97 2700K 1-10V & Push	20,1	1625	81	97	0.95	<3%	5A 50µS	50 pcs	II	F
Vector CL 145 LV 1625Lm CRI97 2700K Dali	20,1	1625	81	97	0.95	<3%	5A 50µS	50 pcs	II	F

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Vector CL 145 LV 1625Lm CRI97 2700K	1200 gr	185x185x160 mm	12 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%). \*Triac and casambi versions on request

**VECTOR CL 145 LV**

**3000K CRI97 1800LM**

**ITEM SPECIFICATIONS (PART A)**

Description	18°		37°		60°		80°		Type	mA	Vf
	Item code	UGR	Item code	UGR	Item code	UGR	Item code	UGR			
Vector CL 145 LV 1800Lm CRI97 3000K No dim*	7D1B03XXA202	11.9	7D1B03XXA502	11.8	7D1B03XXA802	15.8	7D1B03XX0J02	21.7	Incl. PSU	500	35,3
Vector CL 145 LV 1800Lm CRI97 3000K 1-10V & Push	7D1B03XXD202	11.9	7D1B03XXD502	11.8	7D1B03XXD802	15.8	7D1B03XX0M02	21.7	Incl. PSU	500	35,3
Vector CL 145 LV 1800Lm CRI97 3000K Dali	7D1B03XXIM02	11.9	7D1B03XXIQ02	11.8	7D1B03XXIT02	15.8	7D1B03XXOQ02	21.7	Incl. PSU	500	35,3

**ITEM SPECIFICATIONS (PART B)**

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Vector CL 145 LV 1800Lm CRI97 3000K No dim*	20,1	1800	89	97	0.95	<20%	2A 50µS	50 pcs	II	F
Vector CL 145 LV 1800Lm CRI97 3000K 1-10V & Push	20,1	1800	89	97	0.95	<3%	5A 50µS	50 pcs	II	F
Vector CL 145 LV 1800Lm CRI97 3000K Dali	20,1	1800	89	97	0.95	<3%	5A 50µS	50 pcs	II	F

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Vector CL 145 LV 1800Lm CRI97 3000K	1200 gr	185x185x160 mm	12 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%). \*Triac and casambi versions on request

**VECTOR CL 145 LV**

**4000K CRI97 1925LM**

**ITEM SPECIFICATIONS (PART A)**

Description	18°		37°		60°		80°		Type	mA	Vf
	Item code	UGR	Item code	UGR	Item code	UGR	Item code	UGR			
Vector CL 145 LV 1925Lm CRI97 4000K No dim*	7D1B03XXA302	12.1	7D1B03XXA602	12.0	7D1B03XXA902	15.2	7D1B03XX0K02	22.0	Incl. PSU	500	35,3
Vector CL 145 LV 1925Lm CRI97 4000K 1-10V & Push	7D1B03XXD302	12.1	7D1B03XXD602	12.0	7D1B03XXD902	15.2	7D1B03XX0N02	22.0	Incl. PSU	500	35,3
Vector CL 145 LV 1925Lm CRI97 4000K Dali	7D1B03XXIN02	12.1	7D1B03XX1R02	12.0	7D1B03XXIU02	15.2	7D1B03XXOR02	22.0	Incl. PSU	500	35,3

**ITEM SPECIFICATIONS (PART B)**

Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Vector CL 145 LV 1925Lm CRI97 4000K No dim*	20,1	1925	96	97	0.95	<20%	2A 50µS	50 pcs	II	E
Vector CL 145 LV 1925Lm CRI97 4000K 1-10V & Push	20,1	1925	96	97	0.95	<3%	5A 50µS	50 pcs	II	E
Vector CL 145 LV 1925Lm CRI97 4000K Dali	20,1	1925	96	97	0.95	<3%	5A 50µS	50 pcs	II	E

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected lifespan B10 reported (25°C)		
				L70B10	L80B10	L90B10
Vector CL 145 LV 1925Lm CRI97 4000K	1200 gr	185x185x160 mm	12 pcs	>60.500 hrs	>60.500 hrs	>60.500 hrs

All values are measured at 230V (+/- 7%). \*Triac and casambi versions on request



## NEW STANDARDS REQUIRE NEW LEDS

TM-30 (new color norm): The Illuminating Engineering Society (IES) has published a new Technical Memorandum – TM-30-15 entitled “IES Method for Evaluating Light Source Color Rendition” – that promises to supplant CRI as a color metric. TM-30 relies on separate fidelity and gamut metrics, as well as a set of color samples that is more representative of real-world objects, as opposed to the pastel samples that were primarily used for the baseline CRI metric that was sometimes called Ra. The new color metric is intended to fairly and accurately characterize both LED-based solid-state lighting (SSL) and legacy sources.



### Desaturated

CRI = 82 / R<sub>g</sub> = 94



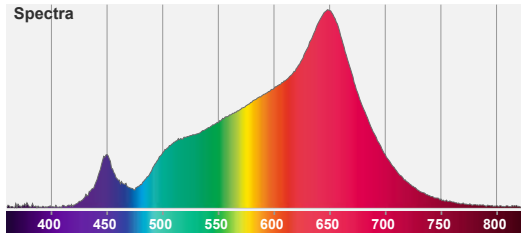
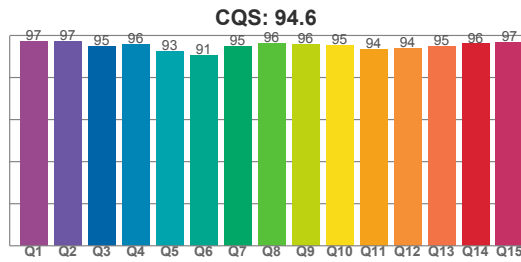
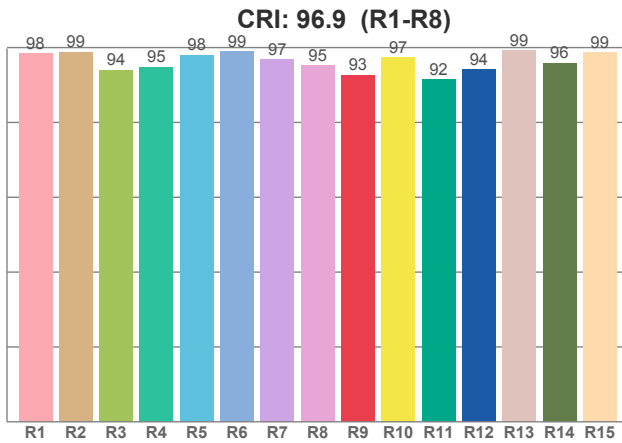
### Red-Enhanced

CRI = 97 / R<sub>g</sub> = 103

## HIGH CRI LED OPTIONS

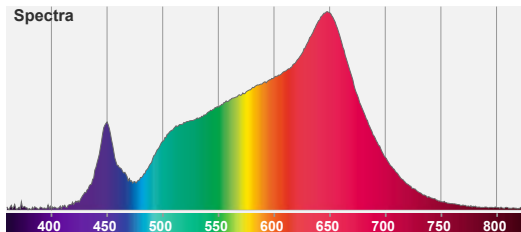
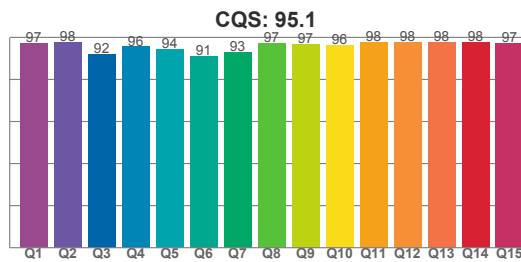
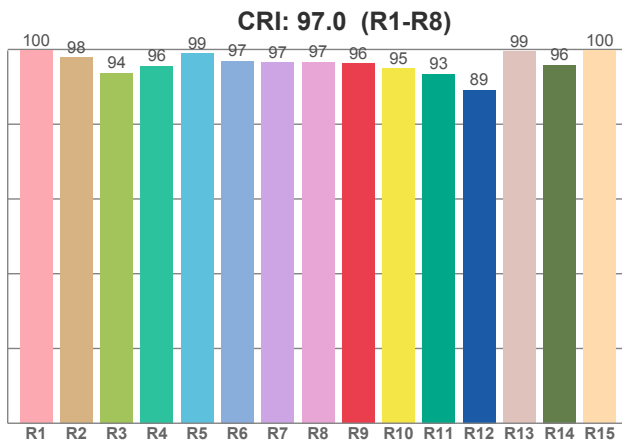
	CCT	CRI	R9	RF	RG	DOWNLIGHTS SMALL			DOWNLIGHTS LARGE		DOWNLIGHTS LARGE		BRAND	ITEM CODE
						MA	LM	LM/W	MA	LM	MA	LM		
<b>CRI82</b>	2700K	82	5	83	94	350	1650	128	700	3400	1200	5300	Bridgelux ksf	51-4087-27
<b>CRI82</b>	3000K	82	7	86	95	350	1725	134	700	3575	1200	5550	Bridgelux ksf	51-4087-30
<b>CRI82</b>	4000K	82	18	84	96	350	1750	136	700	3650	1200	5800	Bridgelux ksf	51-4087-40
<b>CRI90</b>	2700K	92	67	88	104	350	1550	118	700	3150	1200	4700	Bridgelux ksf	51-4088-27
<b>CRI90</b>	3000K	92	67	92	99	350	1600	122	700	3250	1200	4850	Bridgelux ksf	51-4088-30
<b>CRI90</b>	4000K	92	78	92	100	350	1625	124	700	3300	1200	4925	Bridgelux ksf	51-4088-40
<b>CRI97</b>	2700K	97	93	96	103	350	1150	83	800	2300	1400	3425	Lumileds	50-3031-27
<b>CRI97</b>	3000K	97	96	95	103	350	1250	91	800	2500	1400	3750	Lumileds	50-3031-30
<b>CRI97</b>	4000K	97	96	95	103	350	1350	98	800	2700	1400	4050	Lumileds	50-3031-40

**2700K**



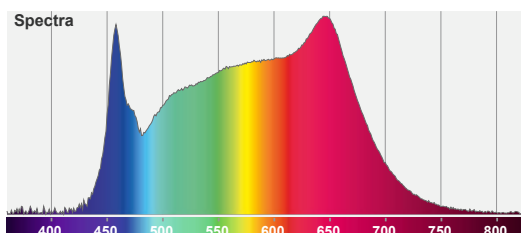
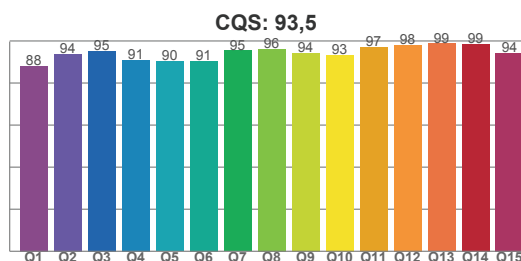
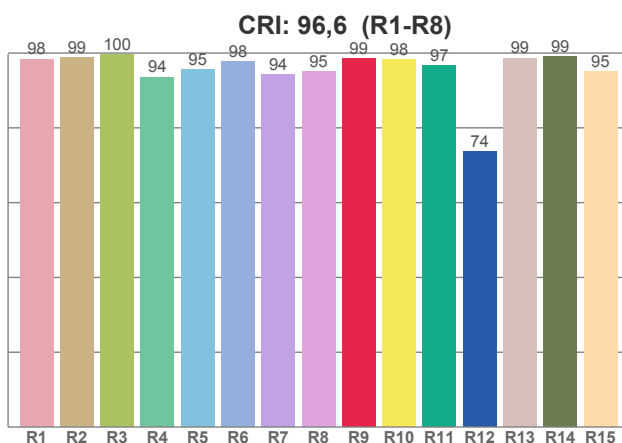
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS
2700K	96.9	92.7	96.0	102.6	94.6

**3000K**



CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS
3000 K	97.0	96.2	95.0	103.3	95.1

**4000K**



CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS
4000K	96.6	98.5	88.3	96.2	93.5