



**L.T.F.**

## SunLight2 Architectural Grade LED Bulb Series



**120V AC PAR30 13W LED Bulbs**

**High CRI & R9, Dim to Warm 3000K - 1800K**



# SunLight2



Not rated for enclosed fixtures

<b>CCT (Dim to Warm)</b>	3000K to 1800K
<b>Max. Tc</b>	90° C
<b>Ambient Temp.</b>	-30°C to 35°C
<b>Power Factor</b>	0.95
<b>CRI, R9</b>	97+, 90+
<b>Lumens</b>	936 lm
<b>Flicker Index</b>	0.01
<b>Percent Flicker</b>	< 1%
<b>Dimming</b>	Phase Dimmable
<b>InRush Cycle to Cycle</b>	< 1 Amp



**RoHS**



Zero Ultraviolet Emission



Zero Infrared Emission



### FEATURES

- Superior Color Rendering CRI 97+, R9 90+
- Dim to Warm; 3000K CCT dims to 1800K
- Low blue emission for circadian health
- Zero ultraviolet emission, won't fade colors
- Beam angles 24° or 36°
- Title 24 Compliant, low flicker < 1%
- 30,000 hours rating
- 3 years / 25k hours warranty

### APPLICATIONS

- Color-critical task lighting
- Residential & hospitality lighting
- Museum and gallery lighting
- Color-critical retail displays (e.g, apparel, groceries, hard goods & toys)
- Track lighting, new & retrofit
- Desk lamps
- Indoor and Outdoor

### ELECTRICAL SPECIFICATIONS

Model Number	Wattage	Input Voltage	CCT (Dim to Warm)	Beam Angle	Lumens	Case Finishes
PAR30A14W3018KWD15	13W	120V AC	3000K Dims to 1800K	15°	936 lm	Silver, Black, White, Custom
PAR30A14W3018KWD24				24°	936 lm	
PAR30A14W3018KWD36				36°	936 lm	



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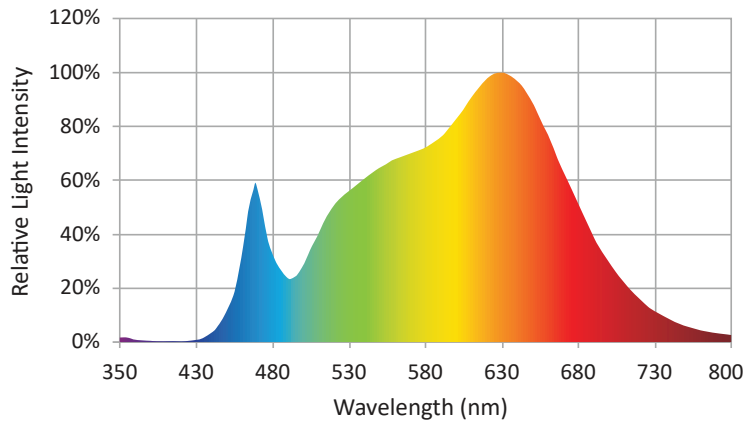
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## SPECTRORADIOMETRIC CHARACTERISTICS

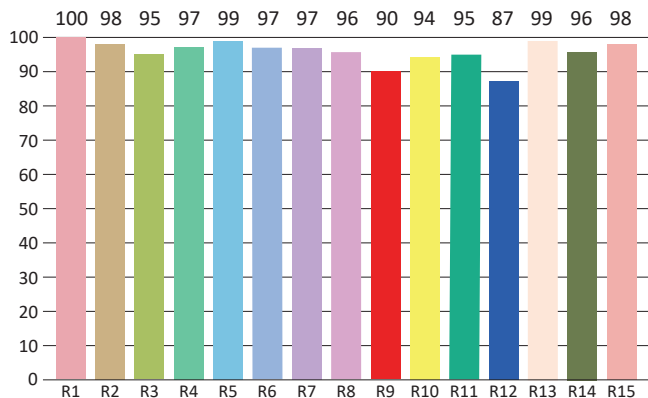
CCT 3000K (Full Power, No Dimming)



**Luminous Flux:** 935.71 lm  
**Radiant Flux:** 3317 mW  
**Efficacy:** 65.4 lm/W  
**Nominal CCT:** LED\_3000K  
 $x_0=0.4338$   $y_0=0.4030$   
**Chromaticity Coordinates:**  
 $x=0.4208$   $y=0.3967$   $u'=0.2433$   $v'=0.516$   
**Chromaticity Difference:** -0.00049 Duv  
**CCT:** 3230 K

## CRI TEST RESULTS

CCT 3000K (Full Power, No Dimming)



**Color Rendering Index (CRI):** Ra = 97.3  
**Dominant Wavelength:** 581.0 nm  
**Peak Wavelength:** 630 nm  
**Colour Fidelity Index:** Rf = 94  
**Gamut Index:** Rg=102  
**Color Purity:** 0.4540  
**Color Ratio:** Kr=41.4% Kg=49.4% Kb=9.2%  
**Bandwidth:** 179.7 nm

R1=100	R2=98	R3=95	R4=97	R5=99	R6=97	R7=97	R8=96
R9=90	R10=94	R11=95	R12=87	R13=99	R14=96	R15=98	Re=96



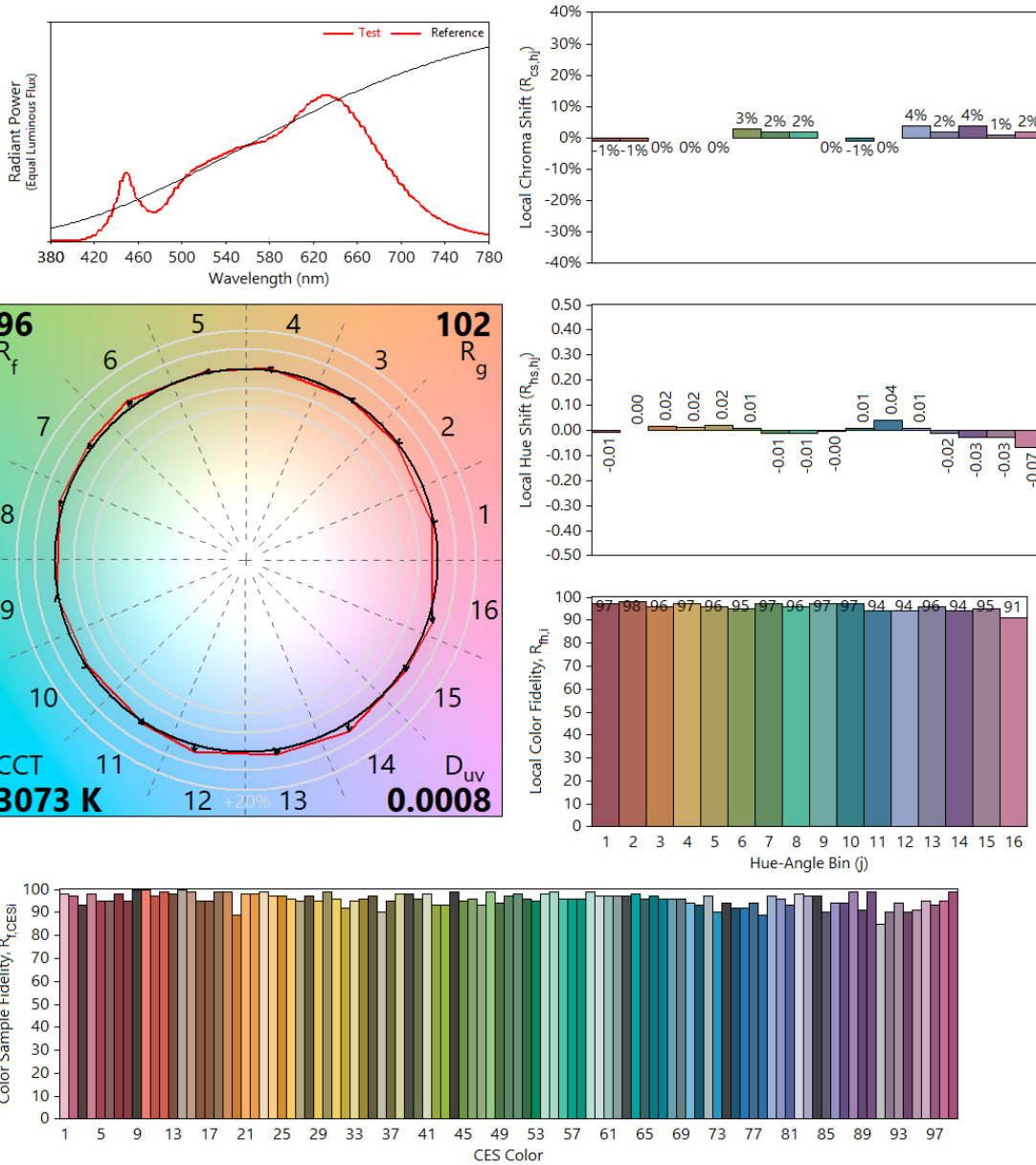
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## IES TM-30-18 Report



Notes:

x 0.4329  
y 0.4046  
u' 0.2478  
v' 0.5210

**CIE 13.3-1995**  
**(CRI)**  
 **$R_a$  97**  
 **$R_g$  90**

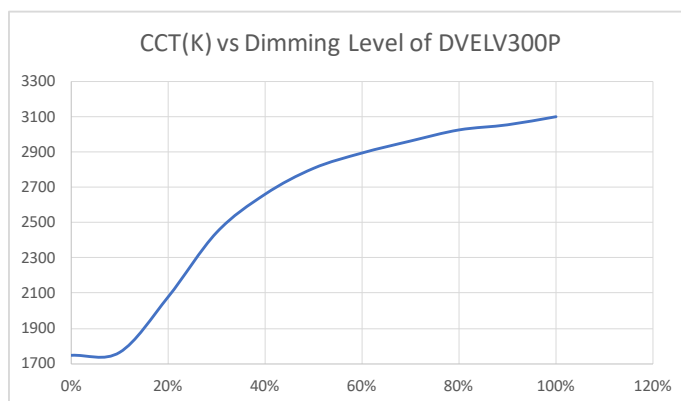
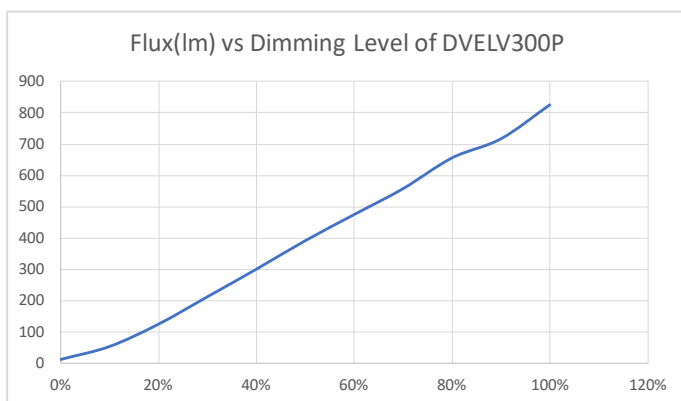
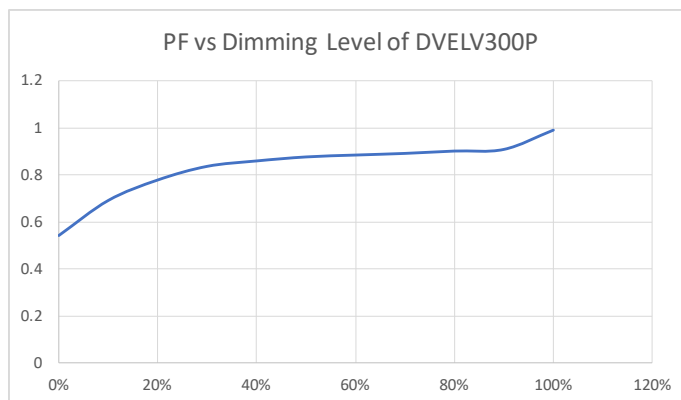
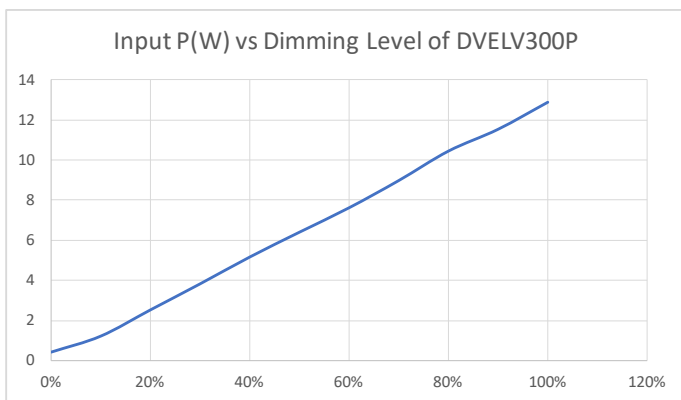
Colors are for visual orientation purposes only.



**DIMMING CHARACTERISTICS**

PAR30A14W3018KWD24W with DVELV300P at 120V 60Hz Input

Dimming	U(V)	I(A)	P(W)	PF	Flux(lm)	(lm/W)	CCT(K)	Ra	R9
100%	120.14	0.108	12.91	0.99	827.01	64.1	3100	97.8	89
90%	107.67	0.118	11.56	0.908	717.97	62.1	3054	97.9	90
80%	104.34	0.111	10.47	0.901	656.73	62.7	3025	97.9	91
70%	99.01	0.102	9	0.891	558.26	62	2962	97.7	91
60%	92.85	0.093	7.64	0.884	475.23	62.2	2894	97.4	92
50%	86.15	0.085	6.42	0.876	391.44	61	2807	97	92
40%	80.11	0.075	5.18	0.859	300.03	57.9	2660	96.4	91
30%	71.64	0.064	3.84	0.836	211.72	55.1	2443	95.2	88
20%	62.87	0.052	2.54	0.778	123.9	48.8	2077	93.8	76
10%	43.67	0.041	1.23	0.691	52.44	42.6	1762	91.8	57
0%	25.72	0.03	0.43	0.542	10.8	25.1	1745	91.7	57

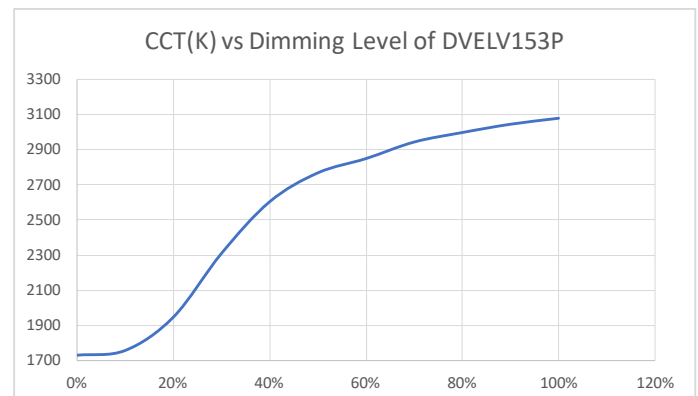
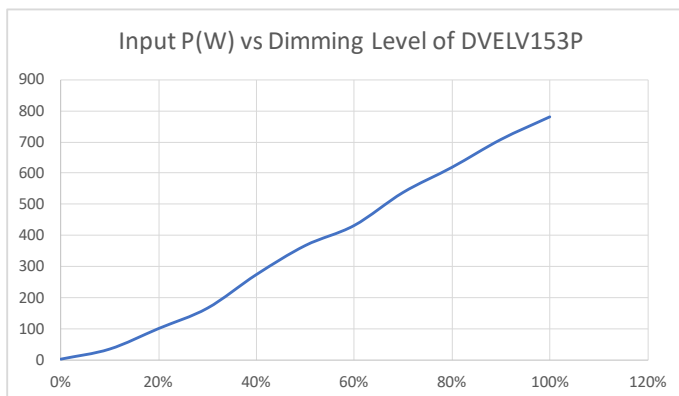
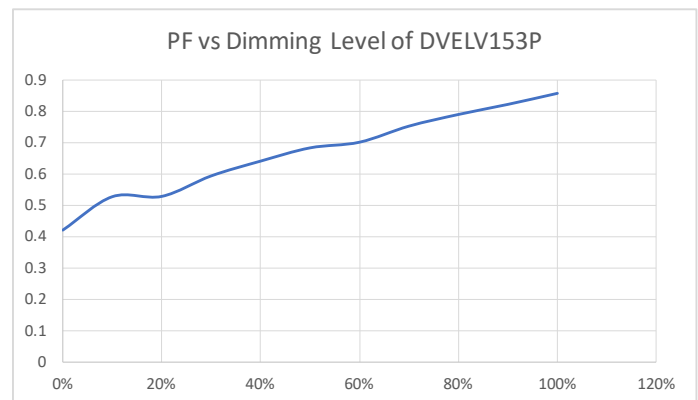
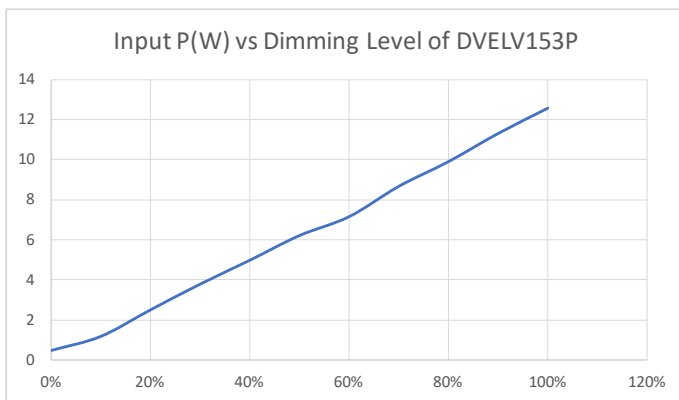




**DIMMING CHARACTERISTICS**

PAR30A14W3018KWD24W with DVCL153P at 120V 60Hz Input

Dimming	U(V)	I(A)	P(W)	PF	Flux(lm)	(lm/W)	CCT(K)	Ra	R9
100%	114.39	0.128	12.55	0.856	779.4	62.1	3077	97.9	90
90%	106.49	0.129	11.29	0.821	706.99	62.6	3043	97.9	90
80%	101.77	0.123	9.89	0.789	618.05	62.5	2996	97.8	91
70%	97.13	0.118	8.66	0.752	537.68	62.1	2942	97.6	92
60%	91.86	0.111	7.15	0.701	432.05	60.4	2848	97.3	92
50%	83.95	0.108	6.21	0.683	367.92	59.2	2767	96.9	92
40%	76.89	0.101	4.98	0.641	275.04	55.2	2603	96.1	91
30%	68.66	0.093	3.79	0.594	167.75	44.3	2310	93.3	88
20%	58.35	0.082	2.51	0.529	102.58	40.9	1948	93.5	69
10%	35.77	0.063	1.19	0.528	36.98	31.1	1759	91.9	58
0%	24.35	0.047	0.488	0.422	4.75	9.7	1732	91.5	56





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### MECHANICAL SPECS

