

# Photometric Report

ERA 600 – Wide

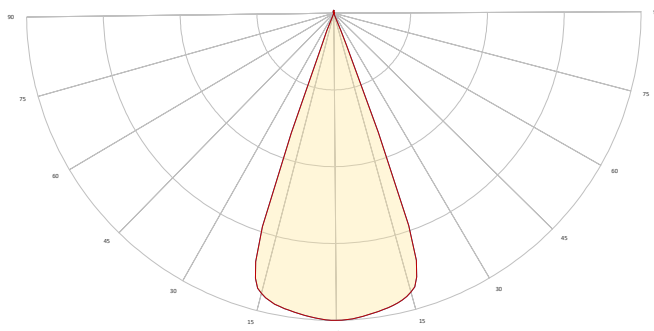
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	19000 lm
Light Engine Output:	37 klm
Efficacy:	52 Lumen/Watt
Lens Option:	N/A
Zoomrange:	6-40°
CRI:	70
CQS:	67
TM-30 Rf:	65
TM-30 Rg:	96
TLCI:	45
Color Temperature:	6800 K



## MEASUREMENT



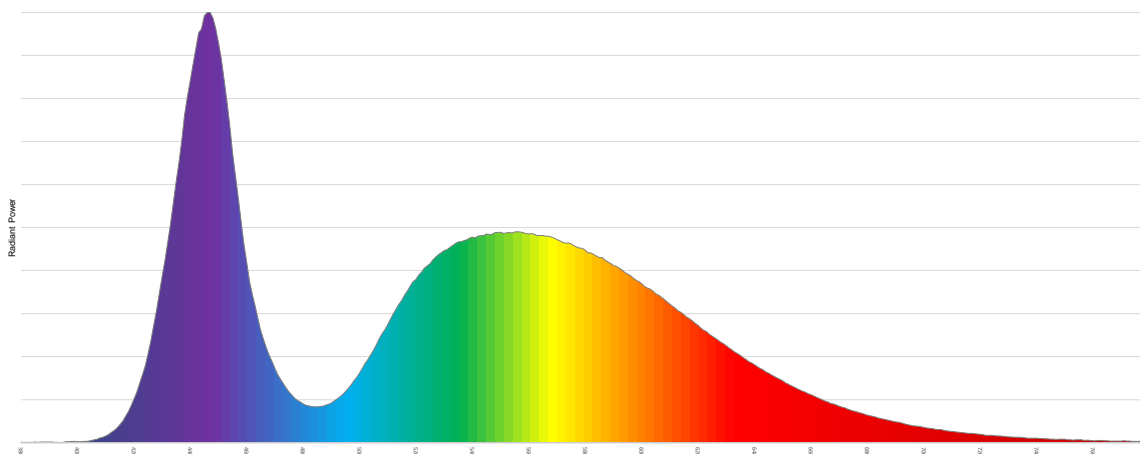
- Vertical - Horizontal

Catalog Number:	9025122049
Measured Output:	18280 lm
Measured Peak:	48516 cd
Consumed Power:	742.9 W
Efficacy:	53.4 Lm/Watt

Beam Angle (50%):	39.5°
Field Angle (10%):	42.5°
Cutoff Angle (3%):	45.4°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz

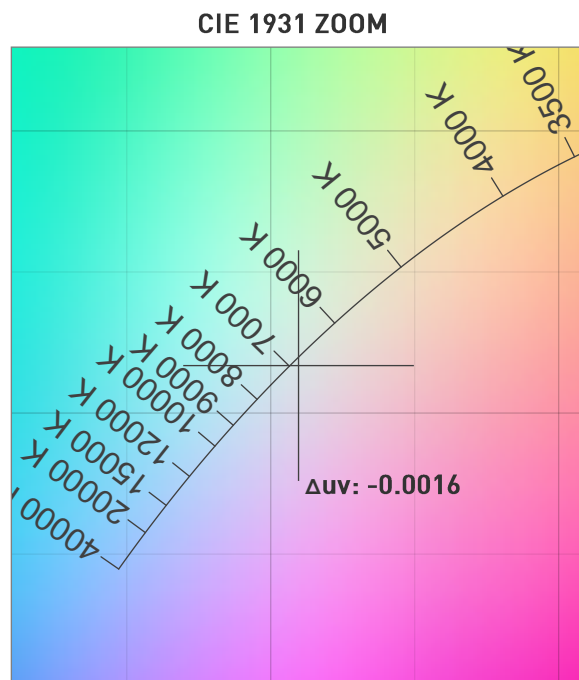
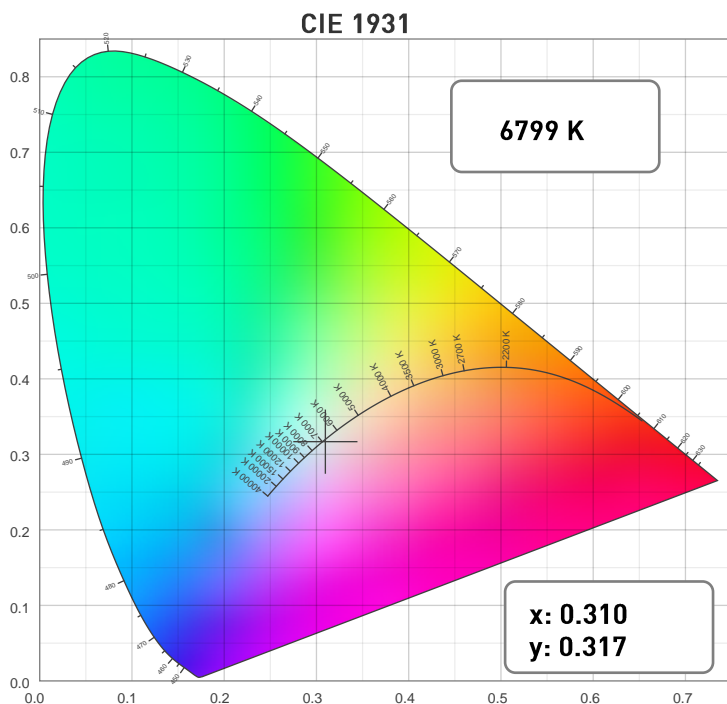
SPECTRAL DISTRIBUTION



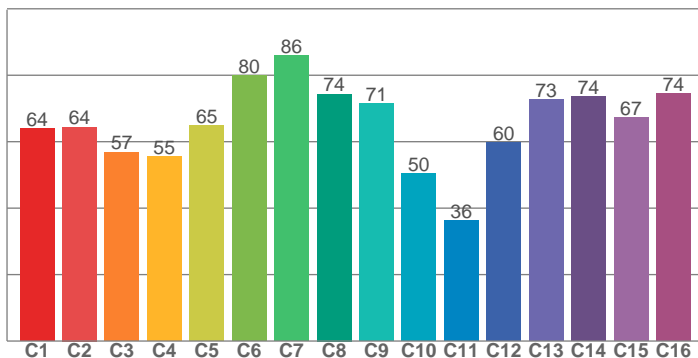
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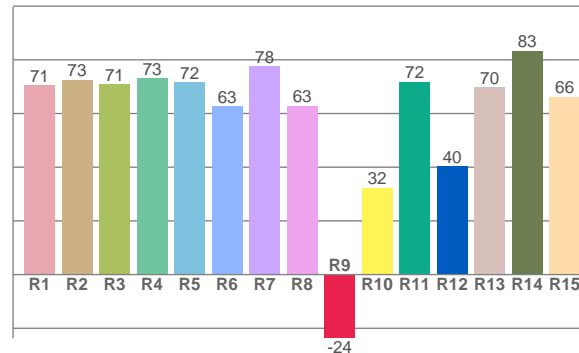
## CHROMATICITY



TM30: 65.3



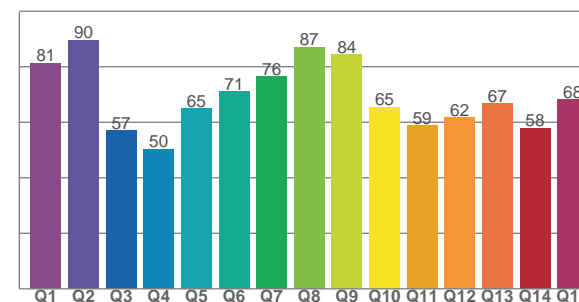
CRI: 70.3 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6799 K	70.3	-23.8	65.3	95.5

CQS: 67.3



Television Lighting Consistency Index	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964	Color Deviation from Black Body
TLCI	CQS	x	y	u	v	$\Delta uv$
45	67.3	0.310	0.317	0.200	0.307	-0.0016

## ERA 600 – Wide

# TM30

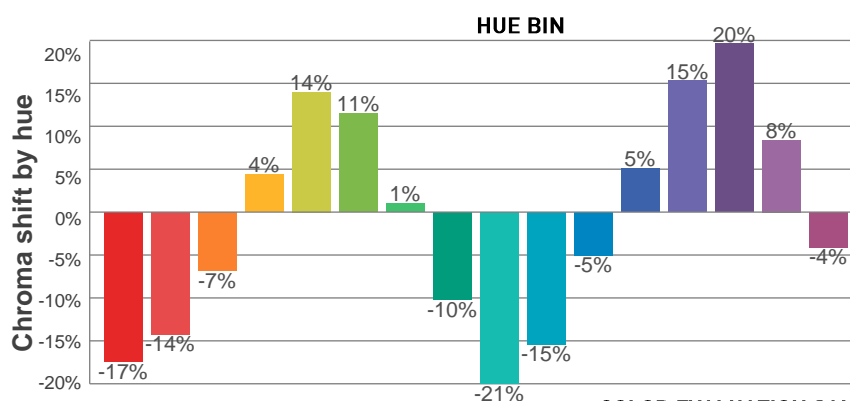
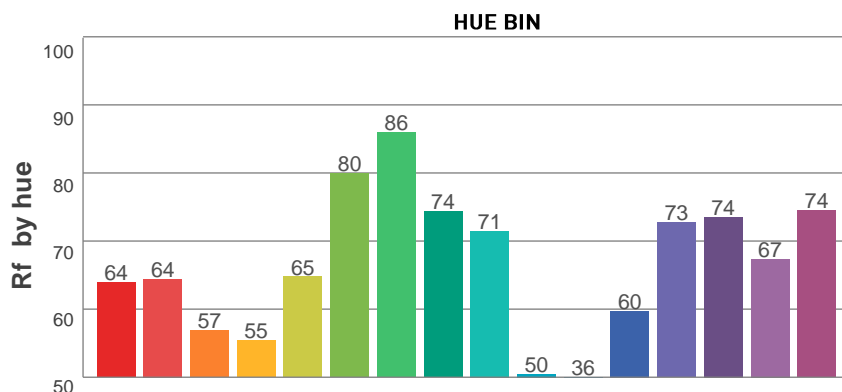
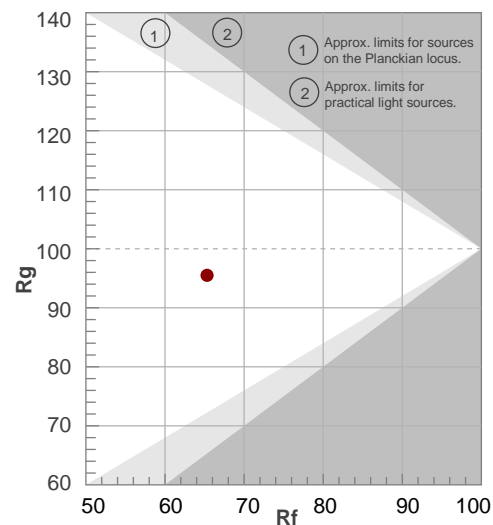
## Rf 65.3

### Fidelity index $R_f$

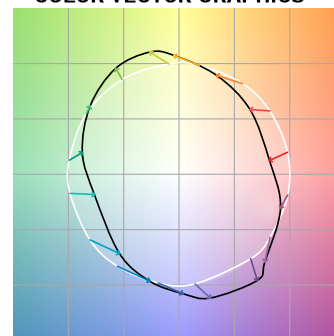
**Rg 95.5**

## Gamut index Rg

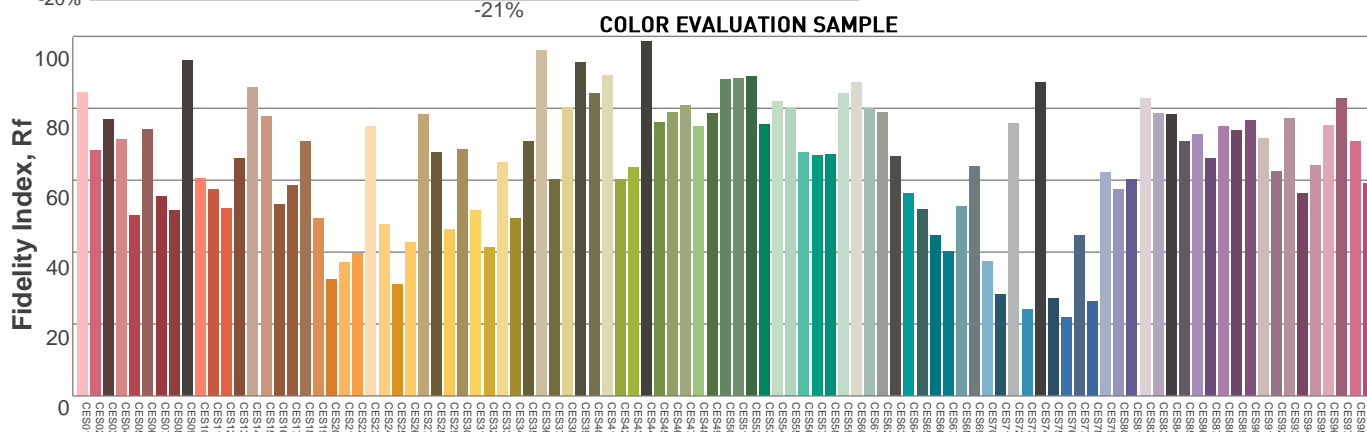
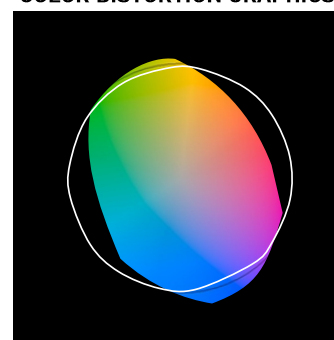
		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	64	-17%	-4%
2	64	-14%	11%
3	57	-7%	24%
4	55	4%	24%
5	65	14%	15%
6	80	11%	-1%
7	86	1%	-8%
8	74	-10%	-9%
9	71	-21%	5%
10	50	-15%	25%
11	36	-5%	32%
12	60	5%	24%
13	73	15%	11%
14	74	20%	-6%
15	67	8%	-21%
16	74	-4%	-13%



## COLOR VECTOR GRAPHICS



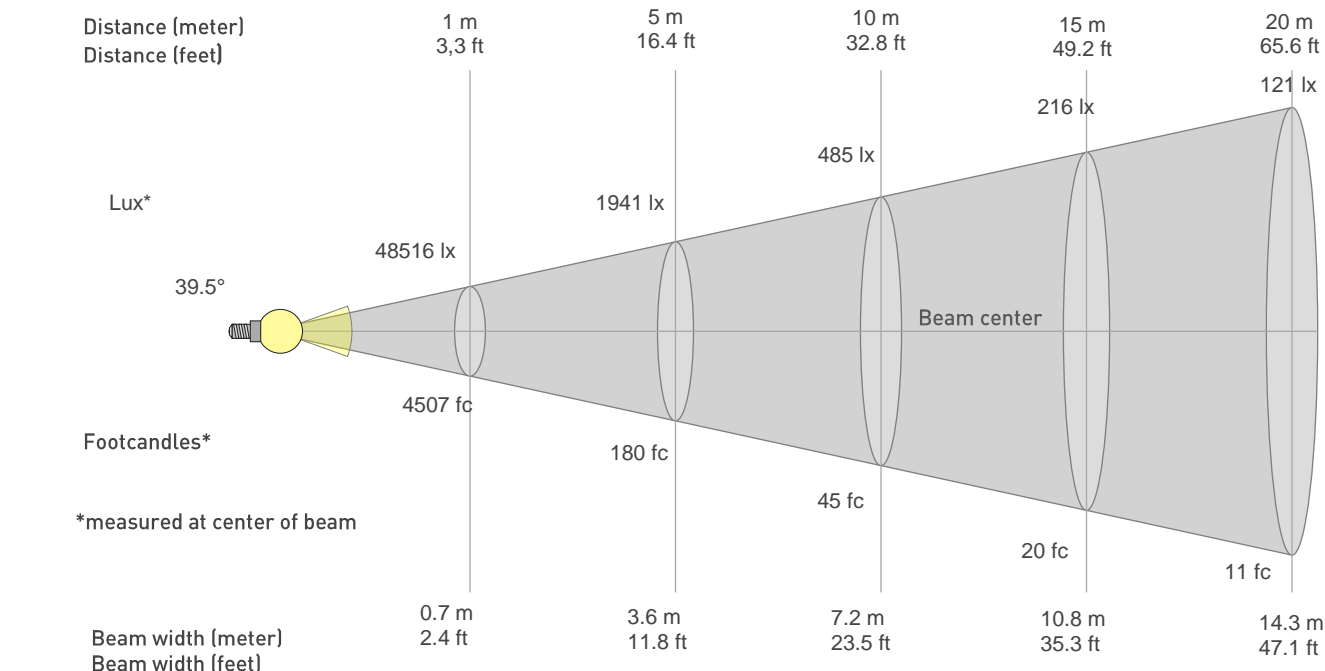
## COLOR DISTORTION GRAPHICS



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## BEAM DETAILS

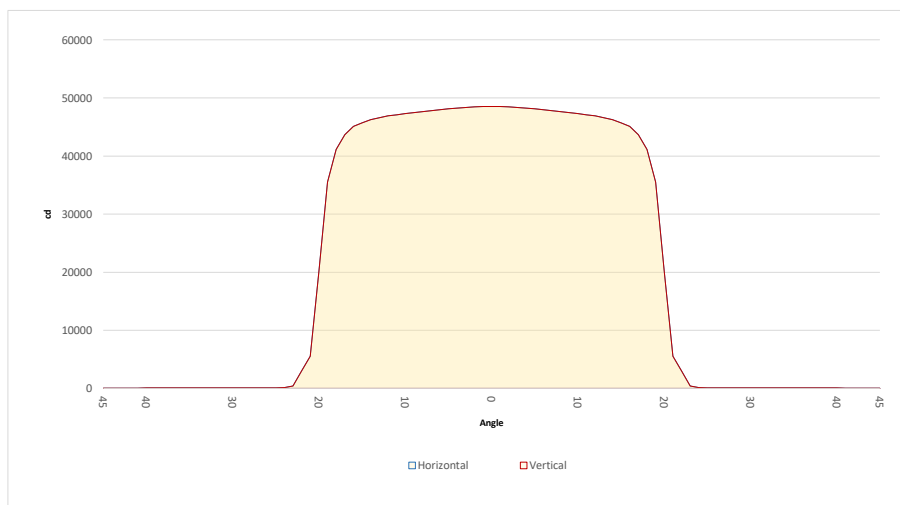


Beam width: = 0.7 \* distance  
Illuminance: = 48516 / (distance<sup>2</sup>)

distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

## BEAM ILLUMINANCE FROM 1-20M

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
48516lx	12129lx	5391lx	3032lx	1941lx	1348lx	990lx	758lx	599lx	485lx	401lx	337lx	287lx	248lx	216lx	190lx	168lx	150lx	134lx	121lx
4507.3fc	1126.8fc	500.8fc	281.7fc	180.3fc	125.2fc	92fc	70.4fc	55.6fc	45.1fc	37.3fc	31.3fc	26.7fc	23fc	20fc	17.6fc	15.6fc	13.9fc	12.5fc	11.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
39.5°	42.5°	45.4°