

# Photometric Report

ERA 400 – Medium

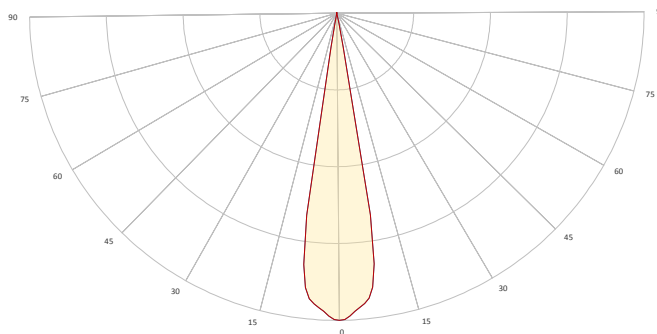
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	10.000 lm
Light Engine Output:	24 klm
Efficacy:	23 Lumen/Watt
Lens Option:	N/A
Zoomrange:	10-30°
CRI:	72
CQS:	69
TM-30 Rf:	68
TM-30 Rg:	93
TLCI:	47
Color Temperature:	6500 K



## MEASUREMENT



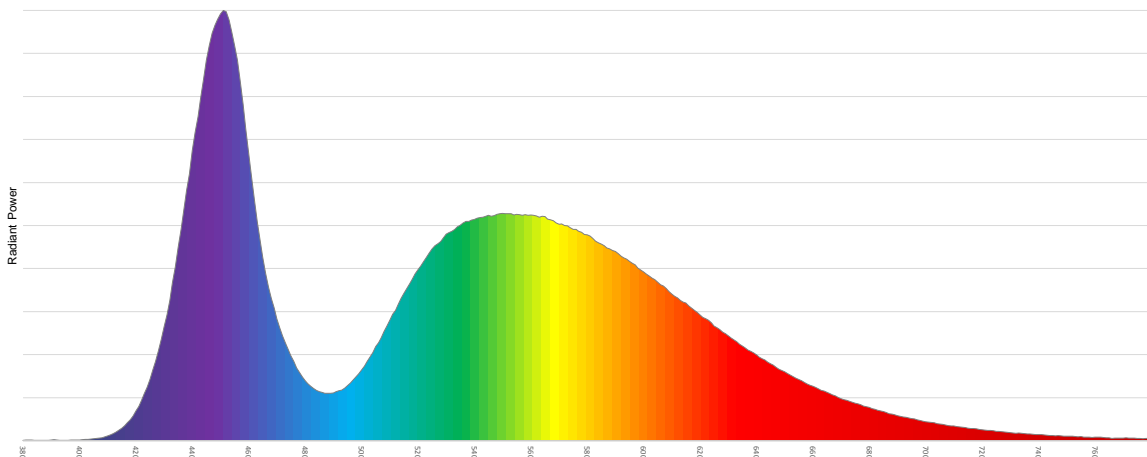
- Vertical - Horizontal

Catalog Number:	9025121796
Measured Output:	10083 lm
Measured Peak:	123263 cd
Consumed Power:	428,4 W
Efficacy:	23,5 Lm/Watt

Beam Angle (50%):	18,6°
Field Angle (10%):	20,3°
Cutoff Angle (3%):	22,7°

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

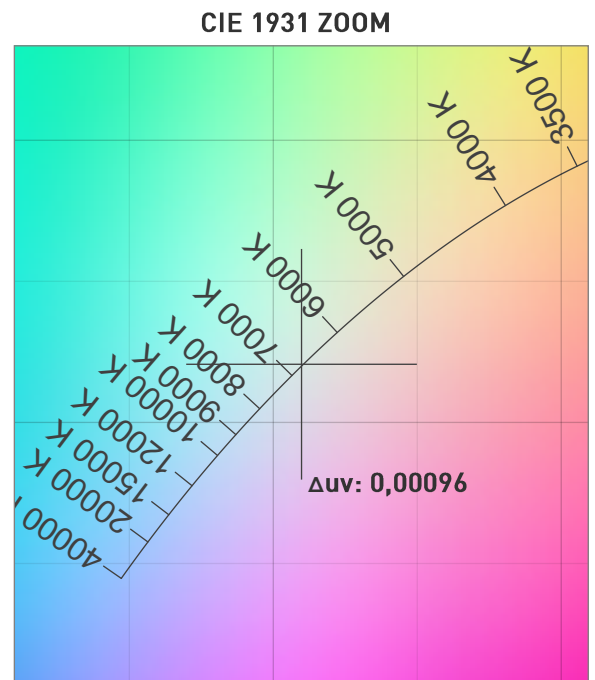
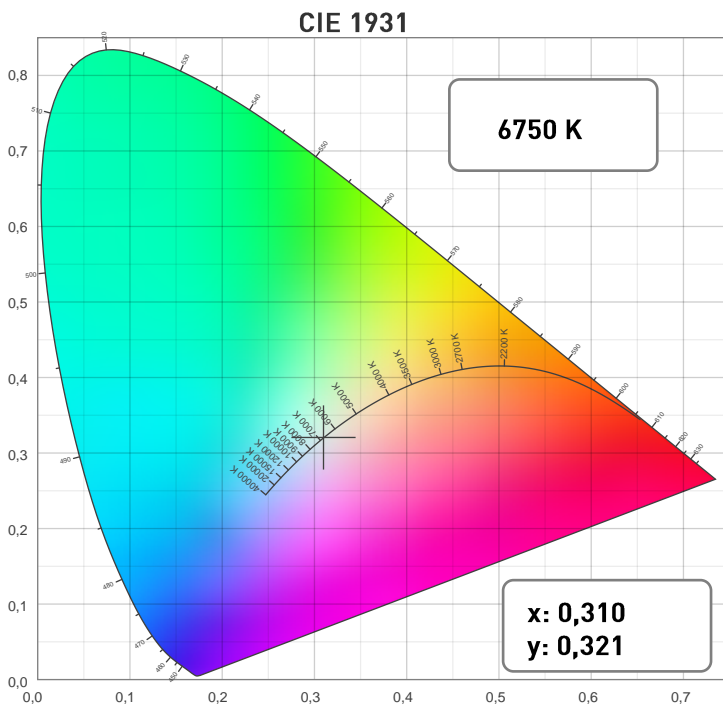
SPECTRAL DISTRIBUTION



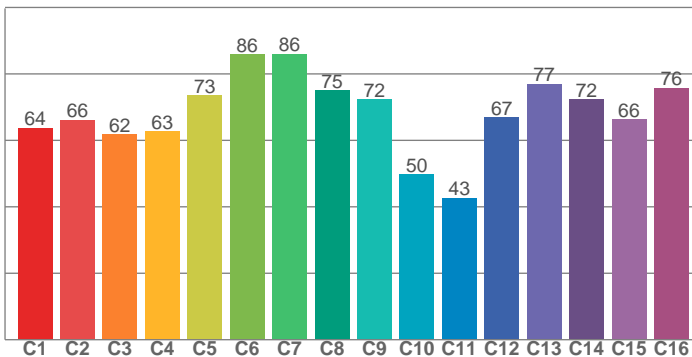
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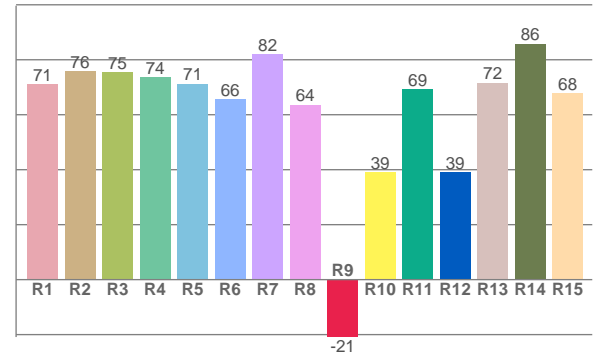
## CHROMATICITY



TM30: 68,4



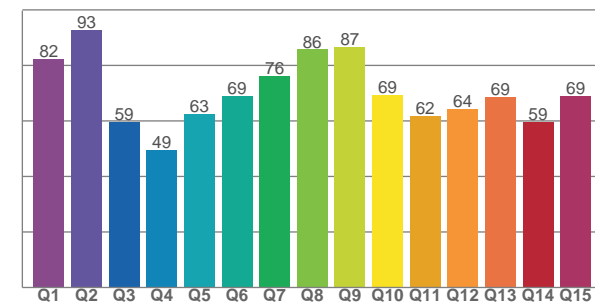
CRI: 72,3 (R1-R8)



### COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6750 K	72,3	-20,9	68,4	93,4

CQS: 68,3



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	Δuv
47	68,3	0,310	0,321	0,199	0,309	0,00096

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TM30

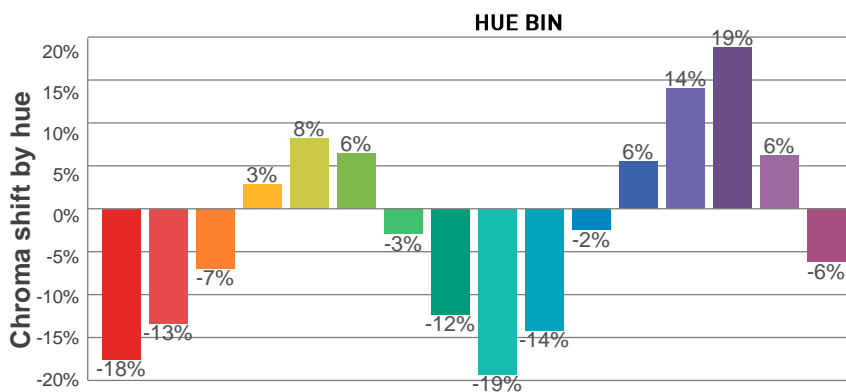
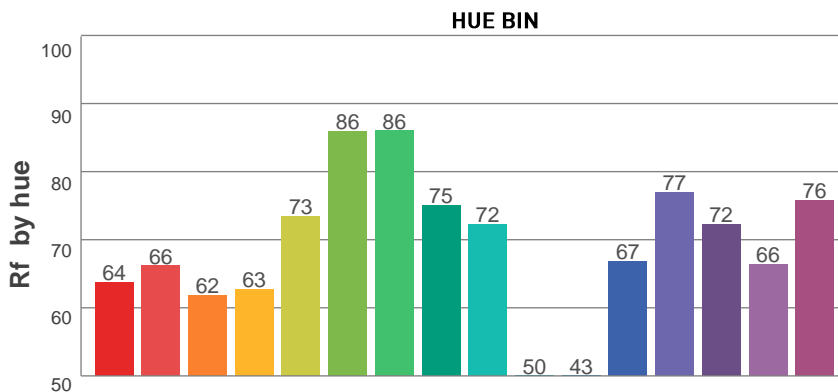
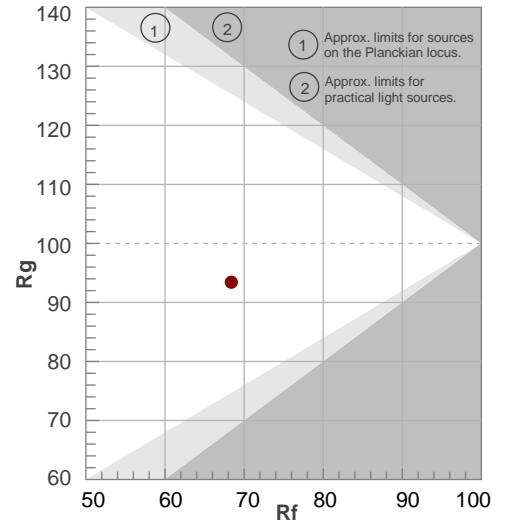
**Rf 68,4**

Fidelity index Rf

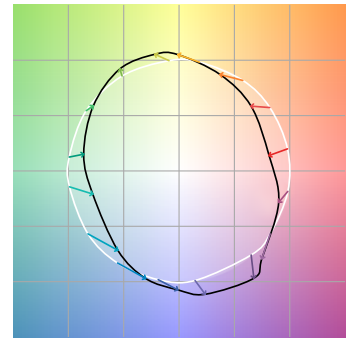
**Rg 93,4**

Gamut index Rg

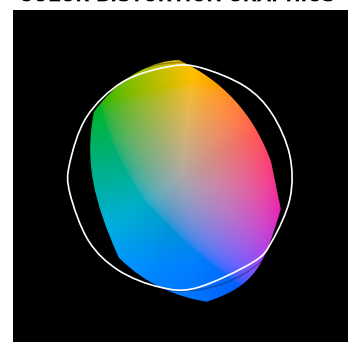
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	64	-18%	-3%
2	66	-13%	10%
3	62	-7%	20%
4	63	3%	20%
5	73	8%	11%
6	86	6%	-2%
7	86	-3%	-7%
8	75	-12%	-5%
9	72	-19%	11%
10	50	-14%	27%
11	43	-2%	29%
12	67	6%	19%
13	77	14%	7%
14	72	19%	-10%
15	66	6%	-23%
16	76	-6%	-11%



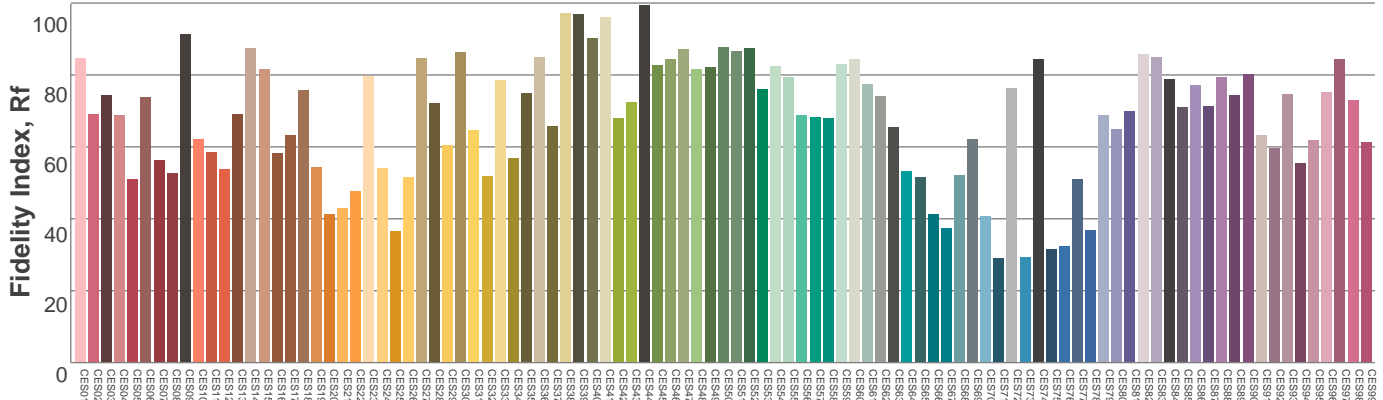
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



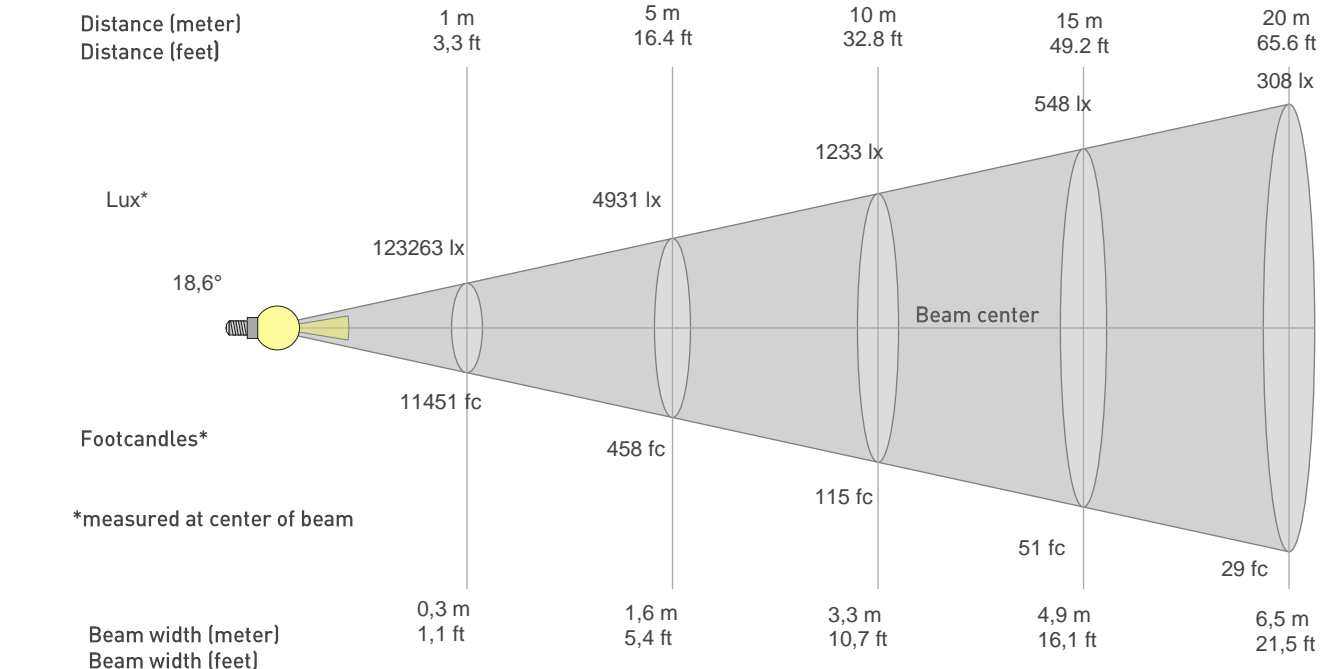
COLOR EVALUATION SAMPLE



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## BEAM DETAILS

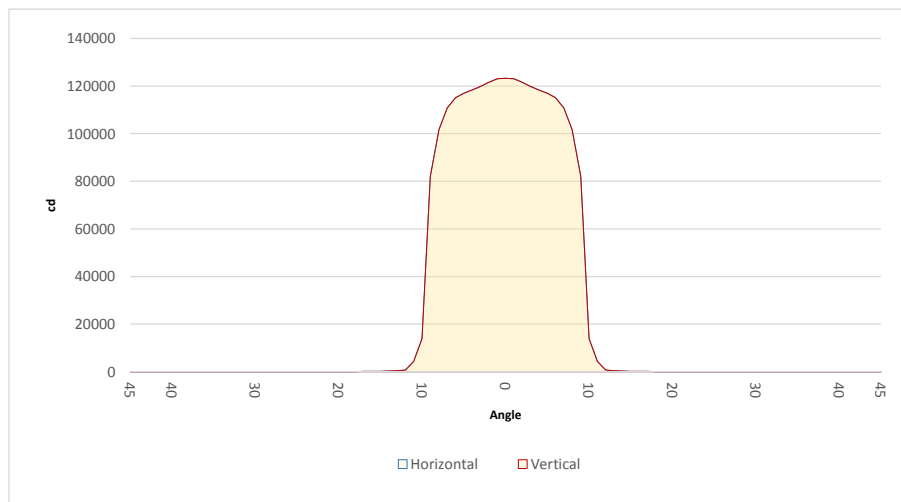


Beam width: = 0,3 \* distance  
 Illuminance: = 123263 / (distance<sup>2</sup>)

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
123263lx	30816lx	13696lx	7704lx	4931lx	3424lx	2516lx	1926lx	1522lx	1233lx	1019lx	856lx	729lx	629lx	548lx	481lx	427lx	380lx	341lx	308lx
11451,5fc	2862,9fc	1272,4fc	715,7fc	458,1fc	318,1fc	233,7fc	178,9fc	141,4fc	114,5fc	94,6fc	79,5fc	67,8fc	58,4fc	50,9fc	44,7fc	39,6fc	35,3fc	31,7fc	28,6fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
18,6°	20,3°	22,7°