

# Photometric Report

ERA 400 – Medium

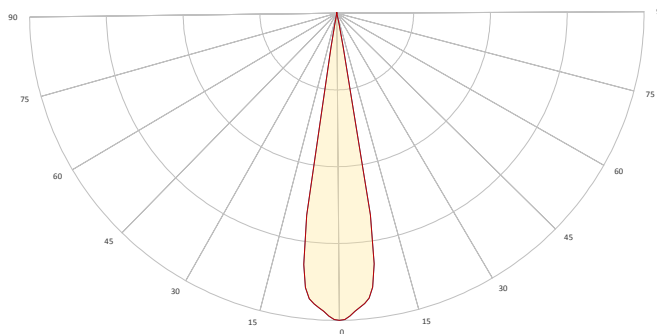
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	5900 lm
Light Engine Output:	14 klm
Efficacy:	14 Lumen/Watt
Lens Option:	N/A
Zoomrange:	10-30°
CRI:	96
CQS:	94
TM-30 Rf:	91
TM-30 Rg:	99
TLCI:	96
Color Temperature:	3300 K



## MEASUREMENT



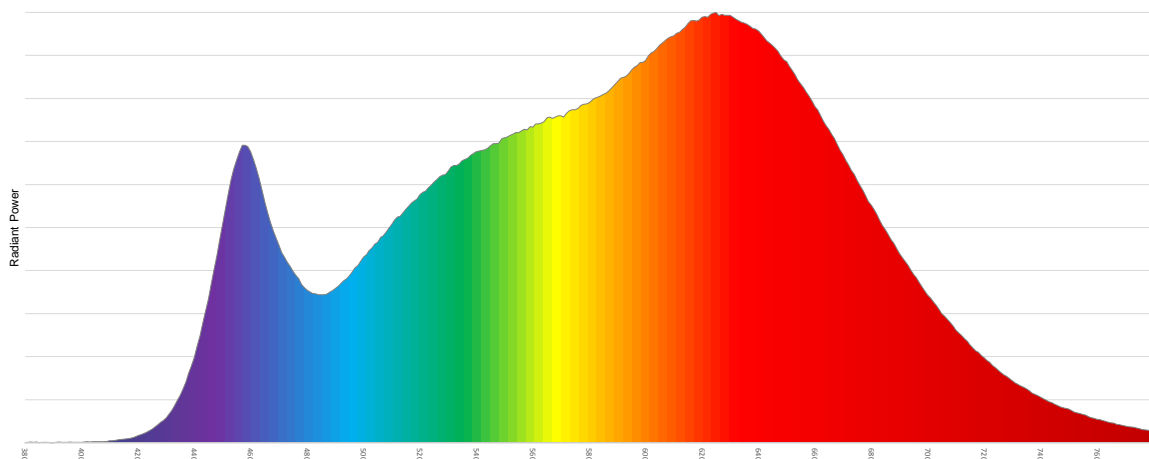
- Vertical - Horizontal

Catalog Number:	9025121795
Measured Output:	5858 lm
Measured Peak:	71613 cd
Consumed Power:	430 W
Efficacy:	13,6 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

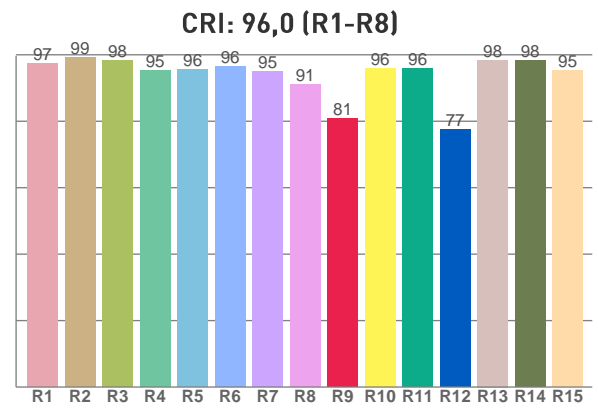
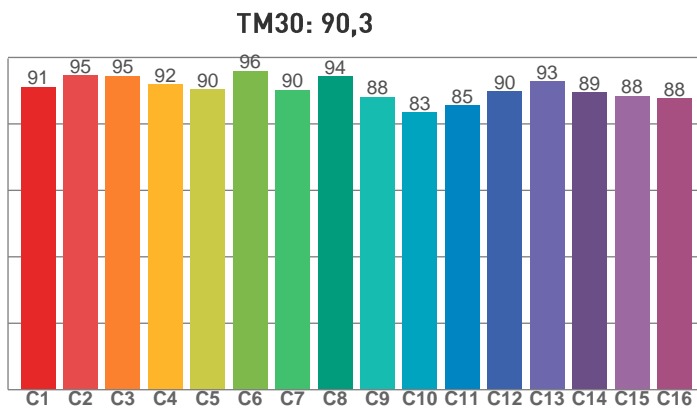
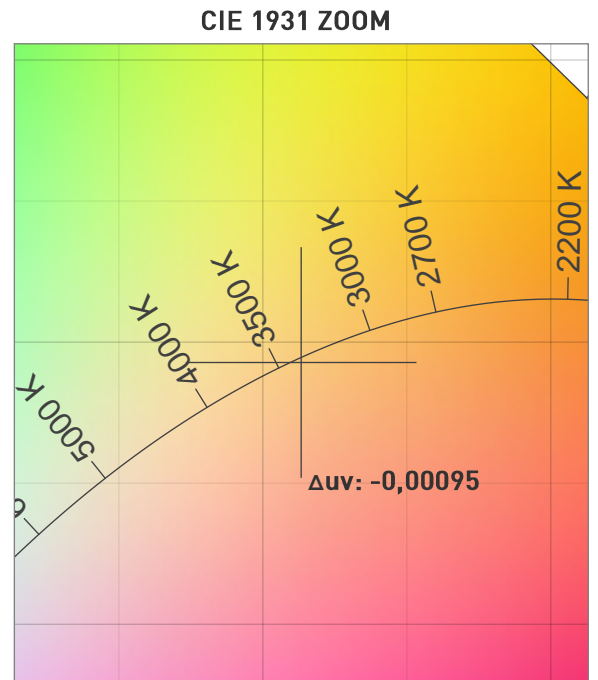
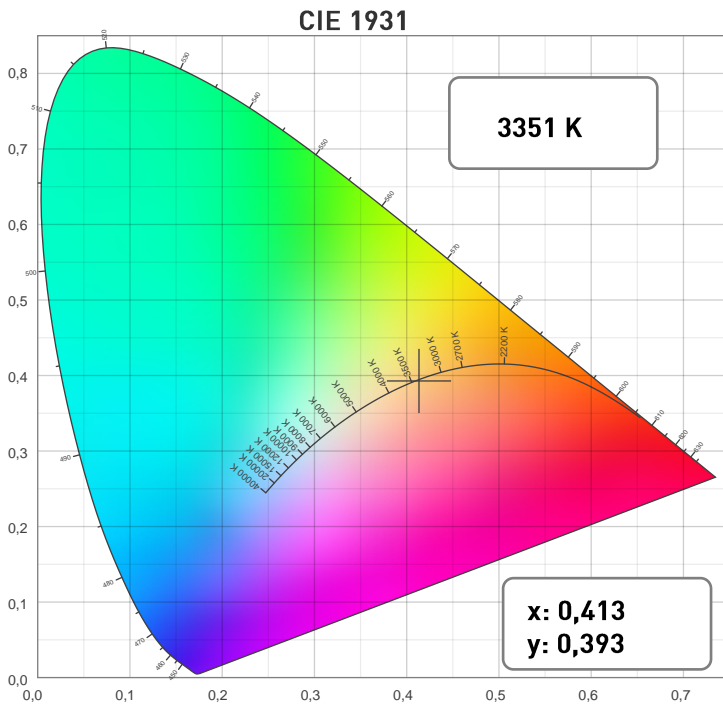
### SPECTRAL DISTRIBUTION



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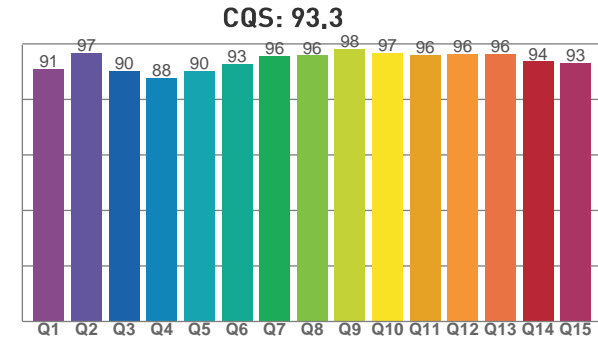
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
3351 K	96,0	80,7	90,3	98,3



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
96	93,3	0,413	0,393	0,240	0,342	-0,00095

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TM30

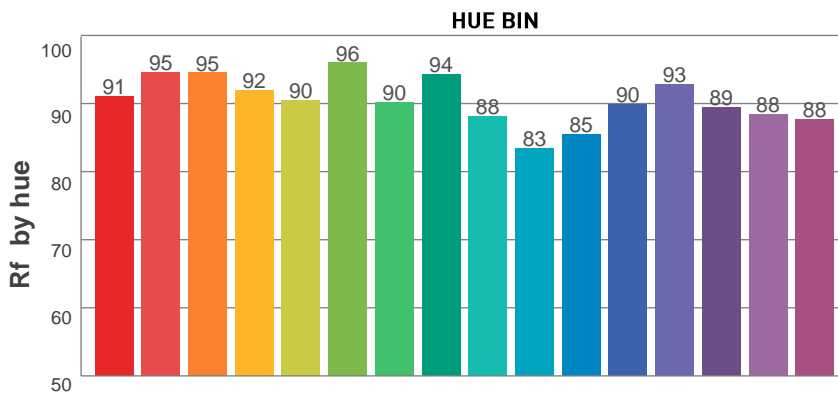
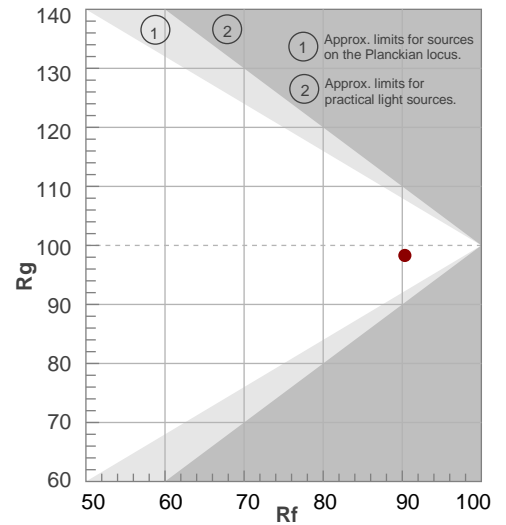
**Rf 90,3**

Fidelity index Rf

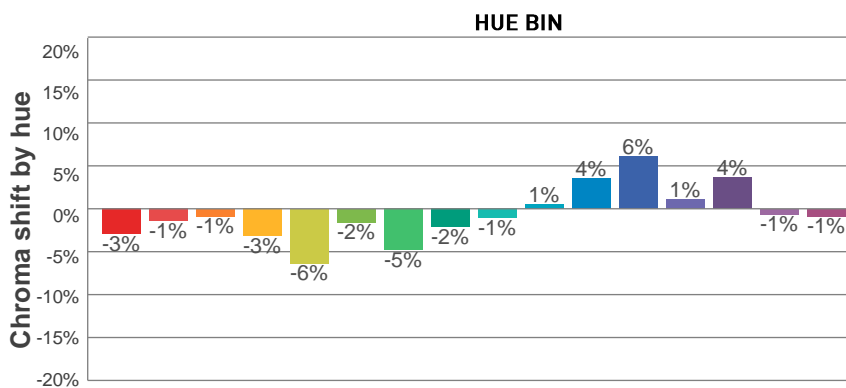
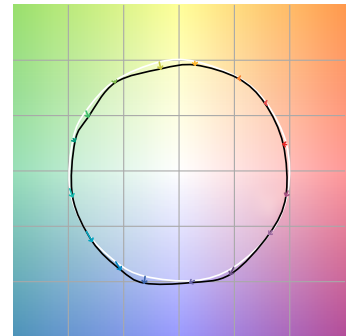
**Rg 98,3**

Gamut index Rg

Hue Bin	R <sub>r</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-3%	1%
2	95	-1%	1%
3	95	-1%	1%
4	92	-3%	-1%
5	90	-6%	0%
6	96	-2%	0%
7	90	-5%	3%
8	94	-2%	2%
9	88	-1%	7%
10	83	1%	10%
11	85	4%	7%
12	90	6%	0%
13	93	1%	-4%
14	89	4%	-6%
15	88	-1%	-4%
16	88	-1%	-5%



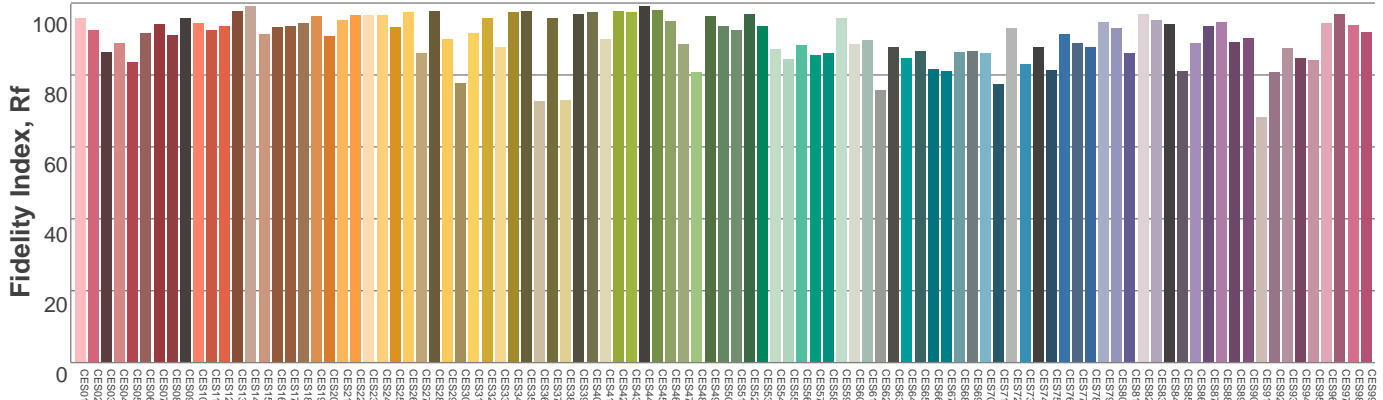
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



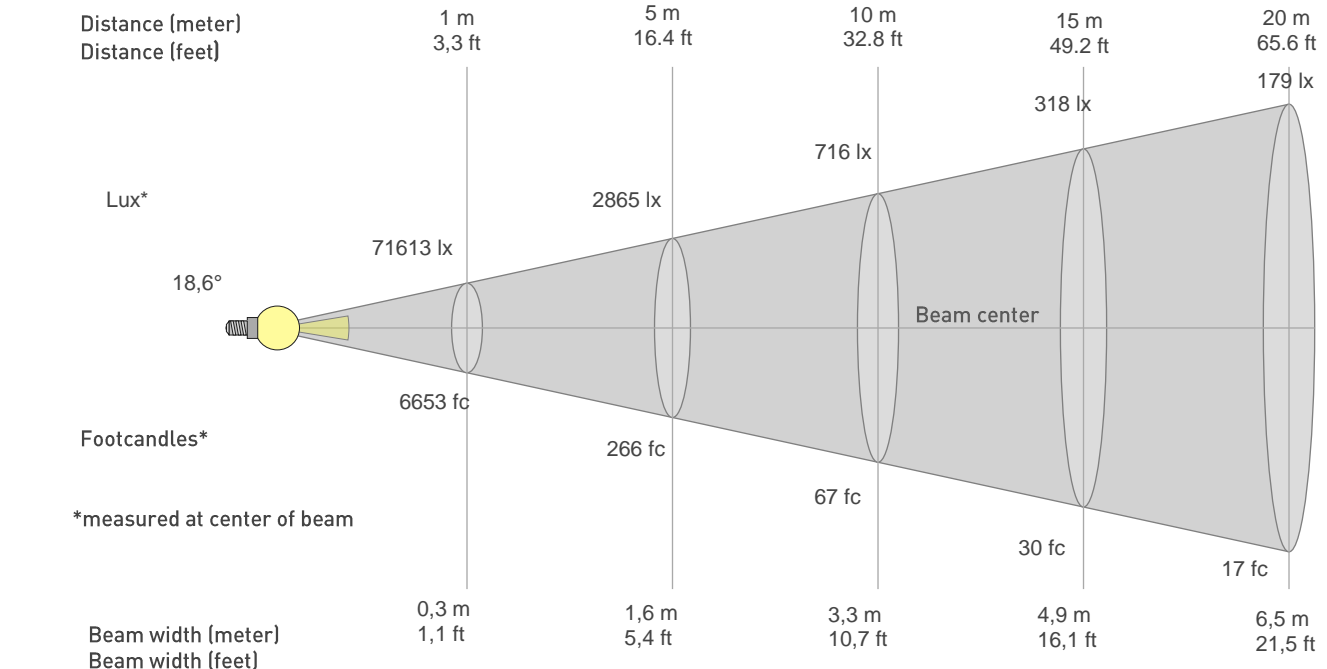
COLOR EVALUATION SAMPLE



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## BEAM DETAILS

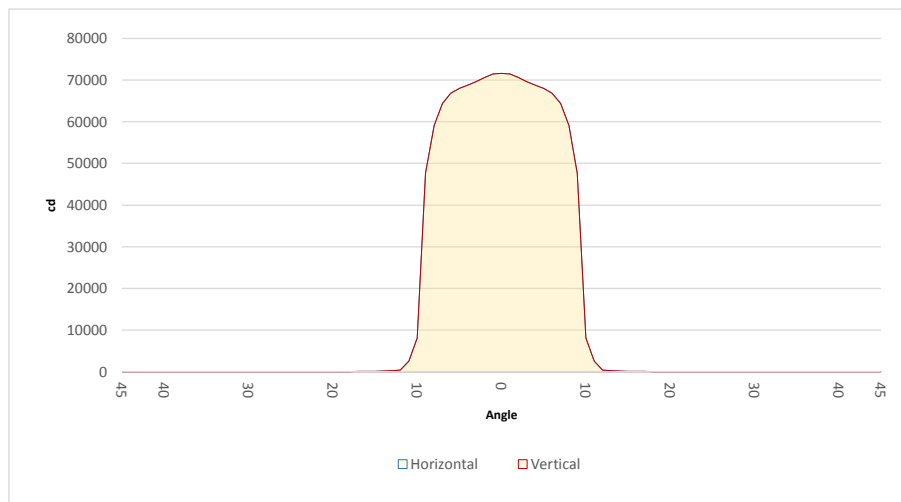


Beam width: = 0,3 \* distance  
 Illuminance: = 71613 / (distance<sup>2</sup>)

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
71613lx	17903lx	7957lx	4476lx	2865lx	1989lx	1461lx	1119lx	884lx	716lx	592lx	497lx	424lx	365lx	318lx	280lx	248lx	221lx	198lx	179lx
6653,1fc	1663,3fc	739,2fc	415,8fc	266,1fc	184,8fc	135,8fc	104fc	82,1fc	66,5fc	55fc	46,2fc	39,4fc	33,9fc	29,6fc	26fc	23fc	20,5fc	18,4fc	16,6fc



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