

Photometric Report

MAC Aura XIP Softlens – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

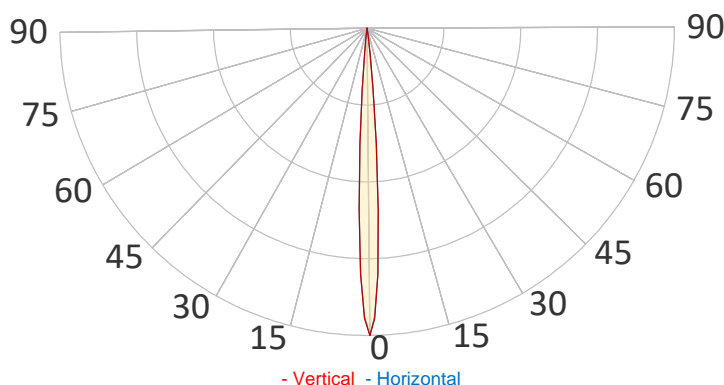
GENERAL SPECIFICATIONS

Total Fixture Output:	5500 lm
Light Engine Output:	11klm
Efficacy:	21 lm/W
Lens Option:	Softlens
Beam Angle (50%):	6,9-35,1°
Field Angle (10%):	11,8-51,0°
Cut-off Angle (3%):	14,9-60,6°
CRI:	73
CQS:	82
TM-30 Rf:	79
TM-30 Rg:	116
TLCI:	60
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

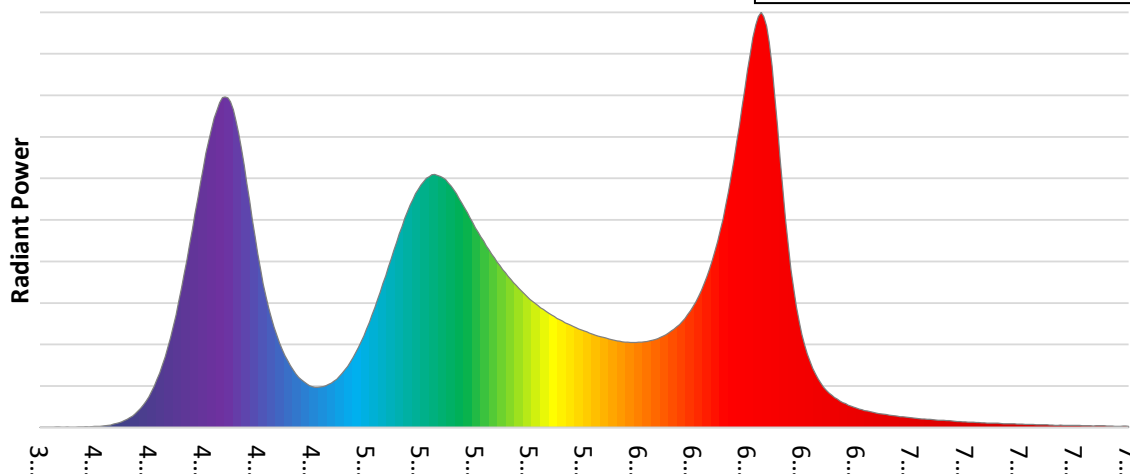


Catalog Number:	MAR-90250100HU
Measured Output:	4215 lm
Measured Peak:	274662 cd
Consumed Power:	282 W
Efficacy:	14,9 lm/W

Beam Angle (50%):	6,9°
Field Angle (10%):	11,8°
Cut-off Angle (3%):	14,9°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz
Fan Mode:	Constant Fan Full
Fixture Warm-up Time:	30 minutes

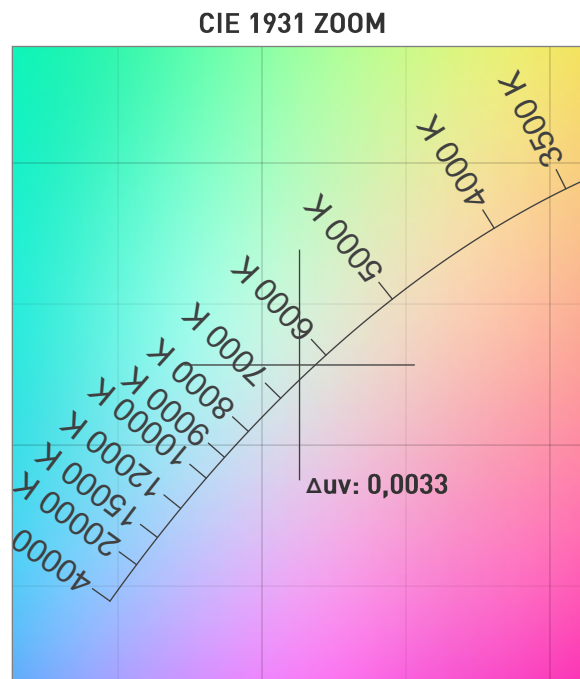
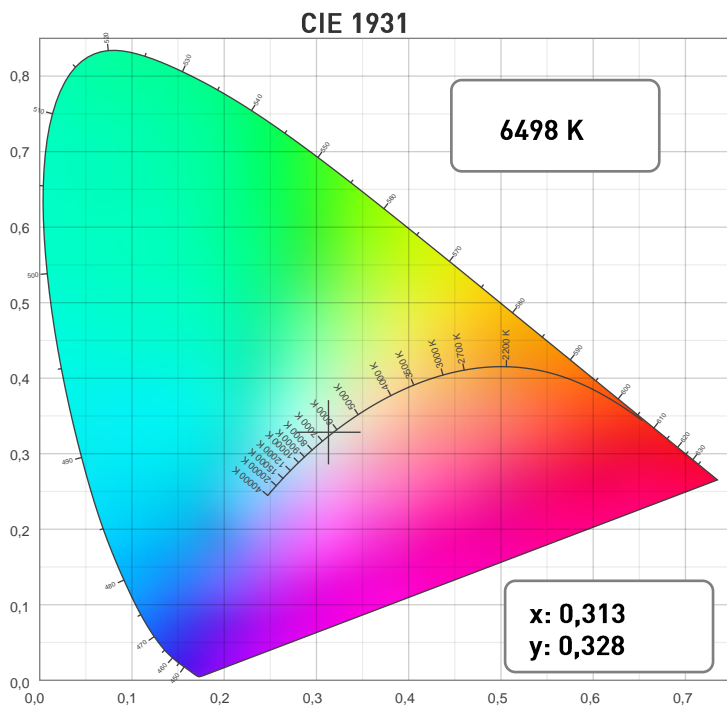
SPECTRAL DISTRIBUTION



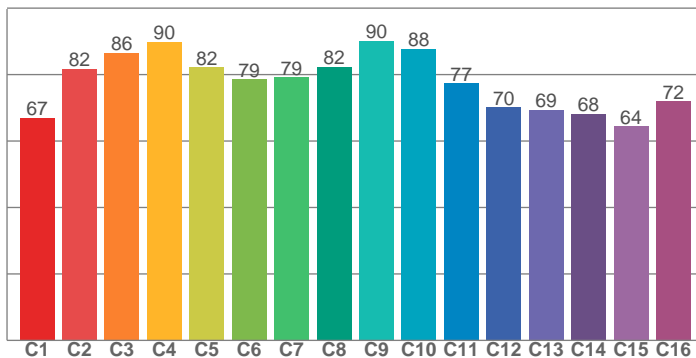
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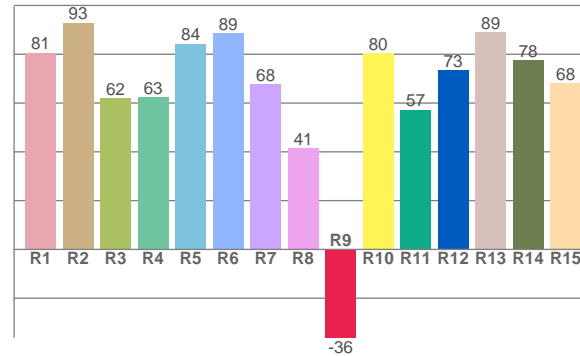
CHROMATICITY



TM30: 78,9



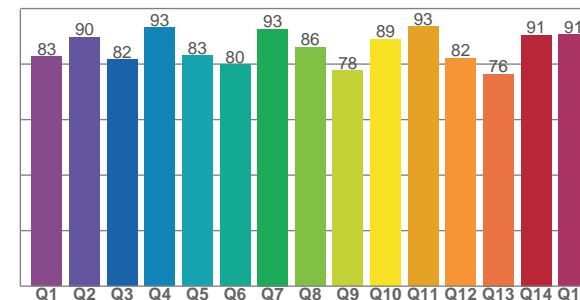
CRI: 72,5 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6498 K	72,5	-36,2	78,9	115,8

CQS: 84,8



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
60	84,8	0,313	0,328	0,198	0,312	0,0033

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TM30

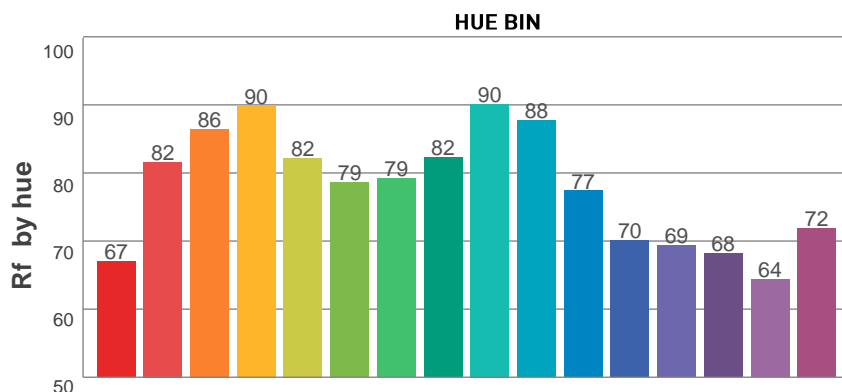
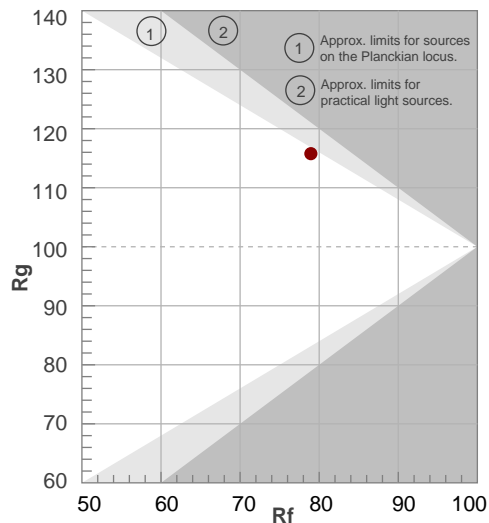
Rf 78,9

Fidelity index Rf

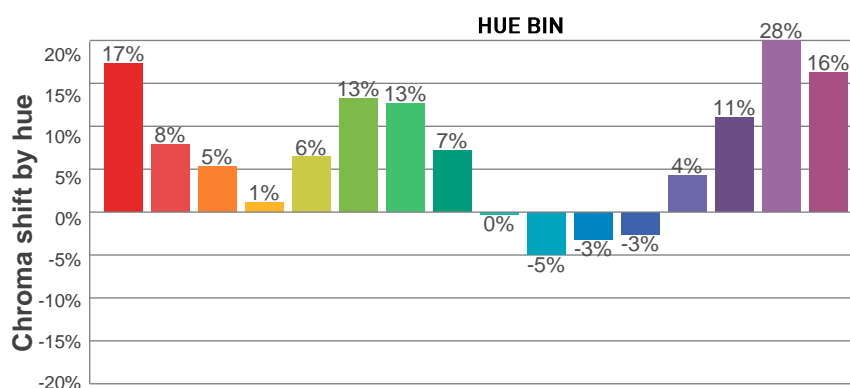
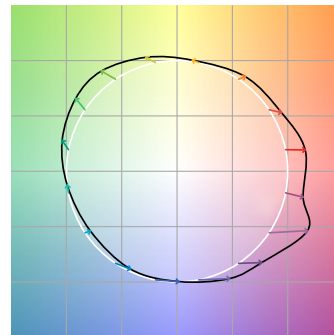
Rg 115,8

Gamut index Rg

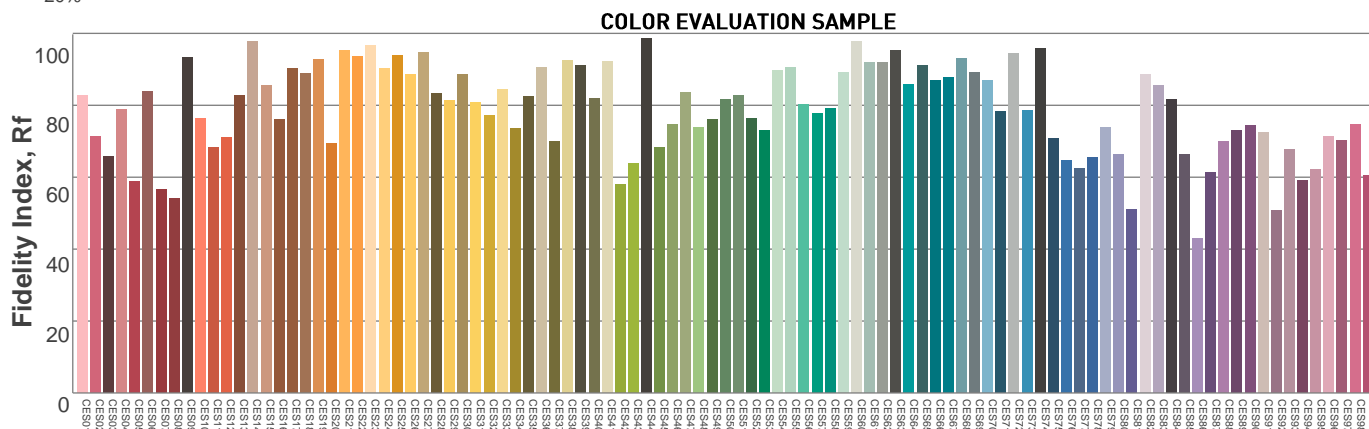
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	67	17%	-4%
2	82	8%	-8%
3	86	5%	-4%
4	90	1%	6%
5	82	6%	7%
6	79	13%	7%
7	79	13%	-4%
8	82	7%	-7%
9	90	0%	-7%
10	88	-5%	1%
11	77	-3%	14%
12	70	-3%	21%
13	69	4%	28%
14	68	11%	18%
15	64	28%	21%
16	72	16%	-1%



COLOR VECTOR GRAPHICS



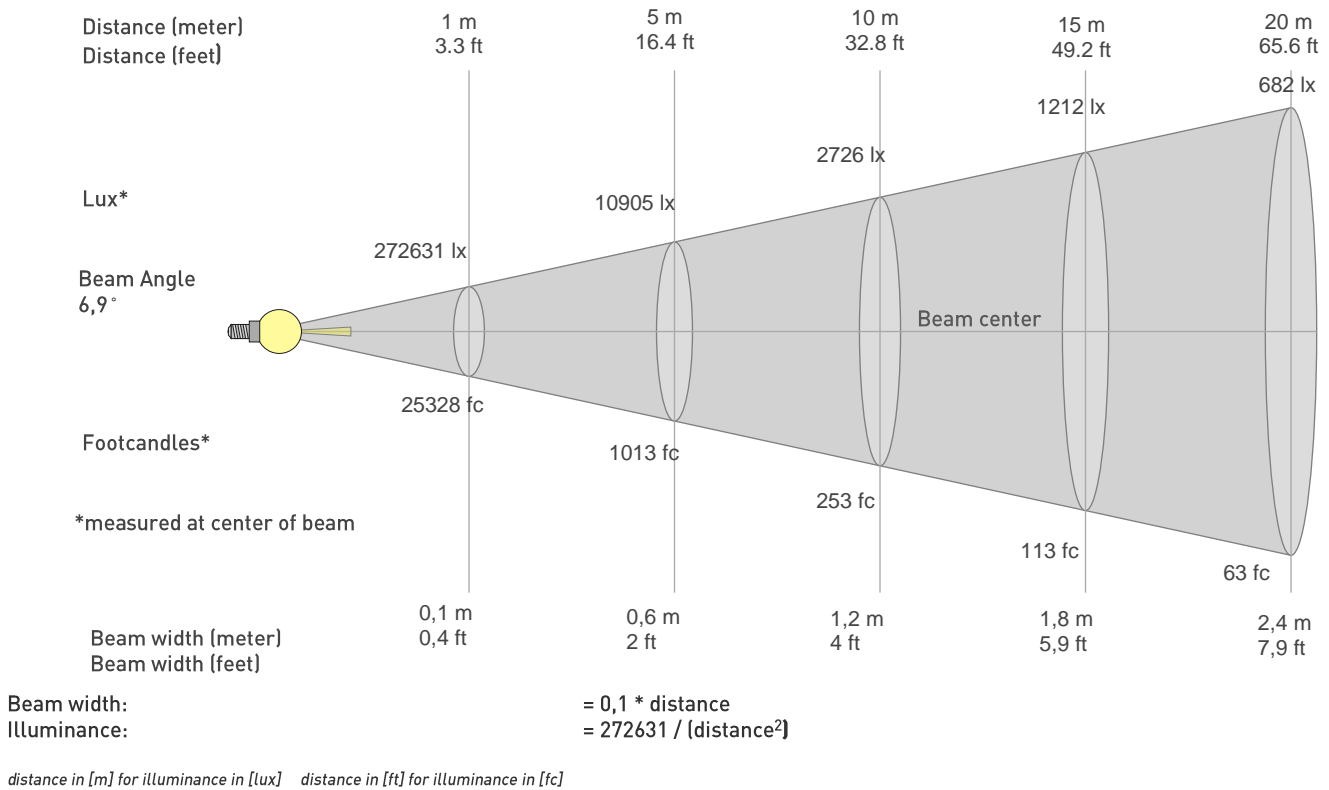
COLOR DISTORTION GRAPHICS



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BEAM DETAILS



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
272631lx	68158lx	30292lx	17039lx	10905lx	7573lx	5564lx	4260lx	3366lx	2726lx	2253lx	1893lx	1613lx	1391lx	1212lx	1065lx	943lx	841lx	755lx	682lx
25328,3fc	6332,1fc	2814,3fc	1583fc	1013,1fc	703,6fc	516,9fc	395,8fc	312,7fc	253,3fc	209,3fc	175,9fc	149,9fc	129,2fc	112,6fc	98,9fc	87,6fc	78,2fc	70,2fc	63,3fc

