

# Photometric Report

MAC Aura XIP – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

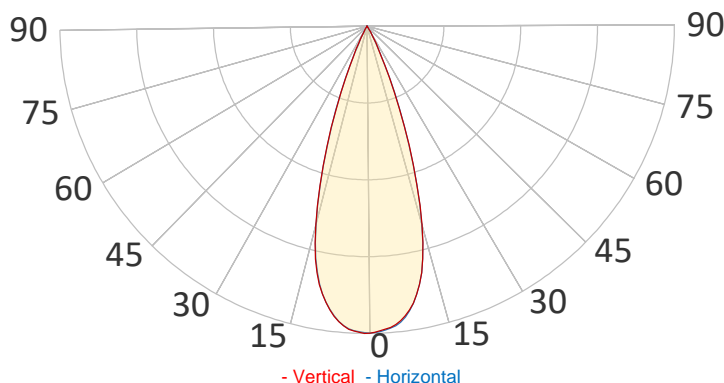
## GENERAL SPECIFICATIONS

Total Fixture Output:	6000 lm
Light Engine Output:	11klm
Efficacy:	21 lm/W
Lens Option:	N/A
Beam Angle (50%):	6,3-35,3°
Field Angle (10%):	8,8-50,4°
Cut-off Angle (3%):	10,4-58,7°
CRI:	71
CQS:	80
TM-30 Rf:	78
TM-30 Rg:	117
TLCI:	57
Color Temperature:	6500 K



## SAMPLE MEASUREMENT

POLAR PLOT

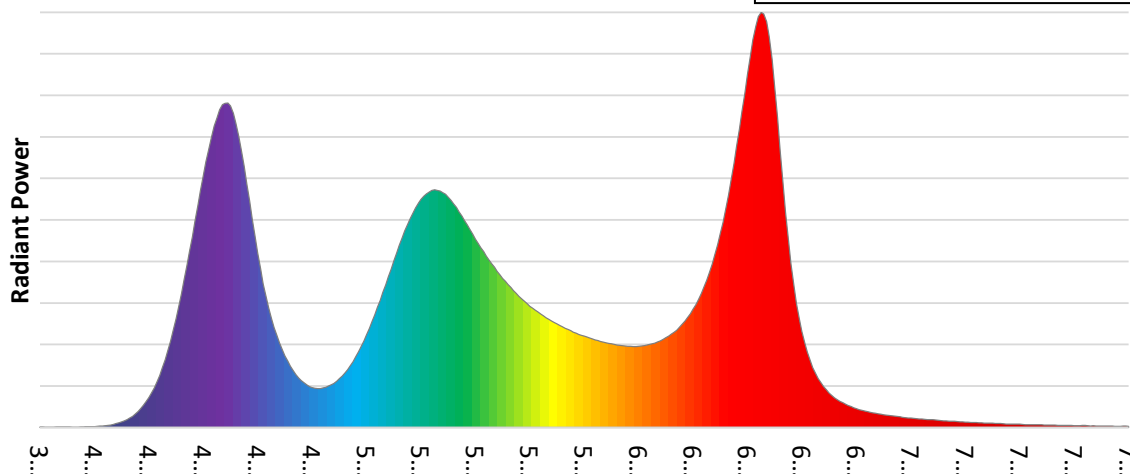


Catalog Number:	MAR-90250100HU
Measured Output:	5949 lm
Measured Peak:	18237 cd
Consumed Power:	282 W
Efficacy:	21,1 lm/W

Beam Angle (50%):	35,3°
Field Angle (10%):	50,4°
Cut-off Angle (3%):	58,7°

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

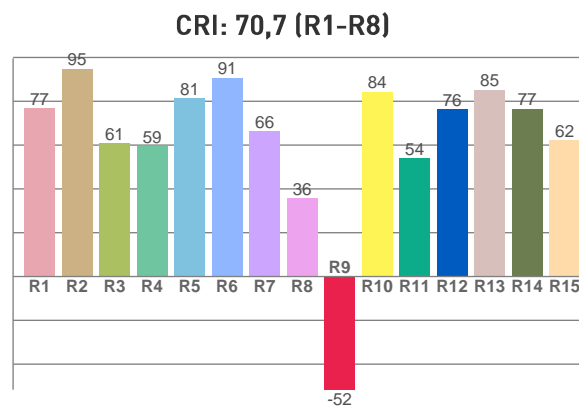
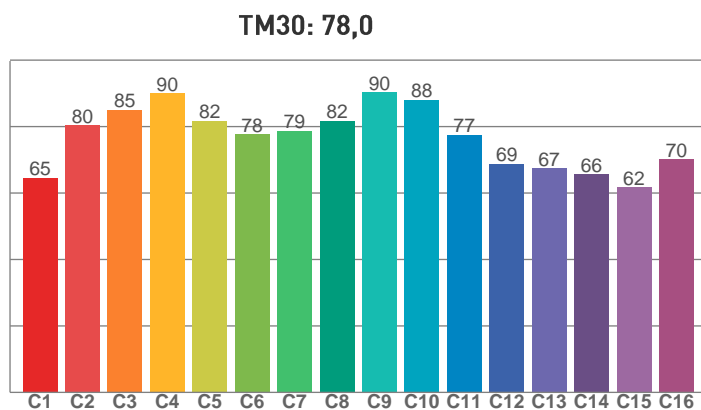
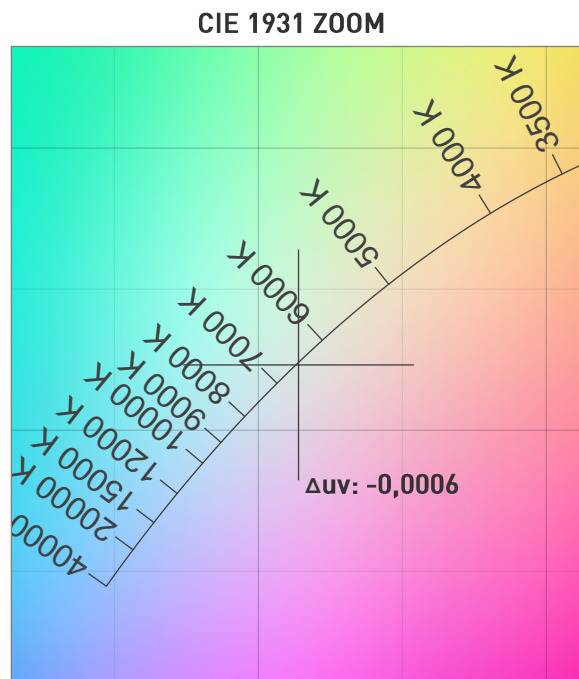
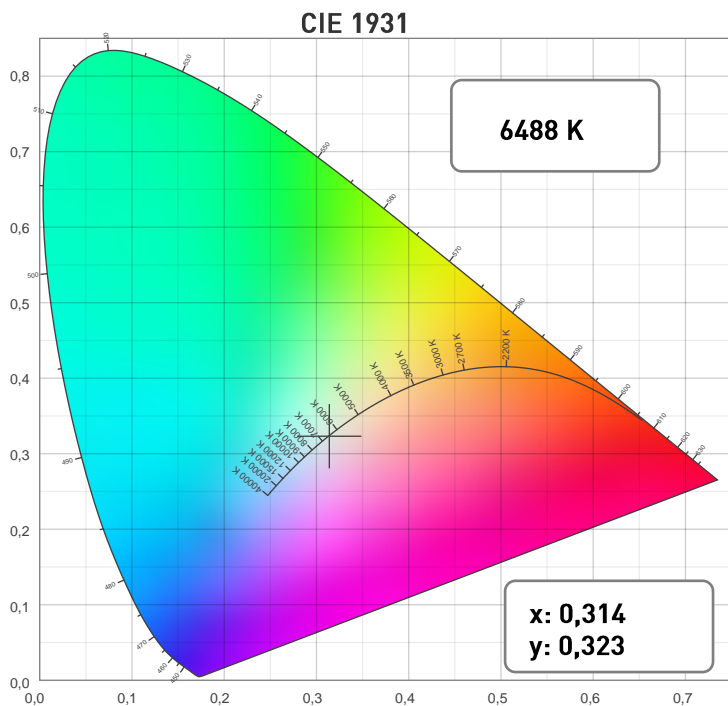
SPECTRAL DISTRIBUTION



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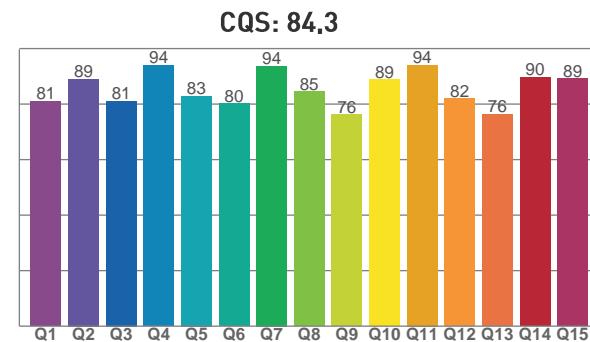
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6488 K	70,7	-51,7	78,0	117,3



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
57	84,3	0,314	0,323	0,201	0,310	-0,0006

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TM30

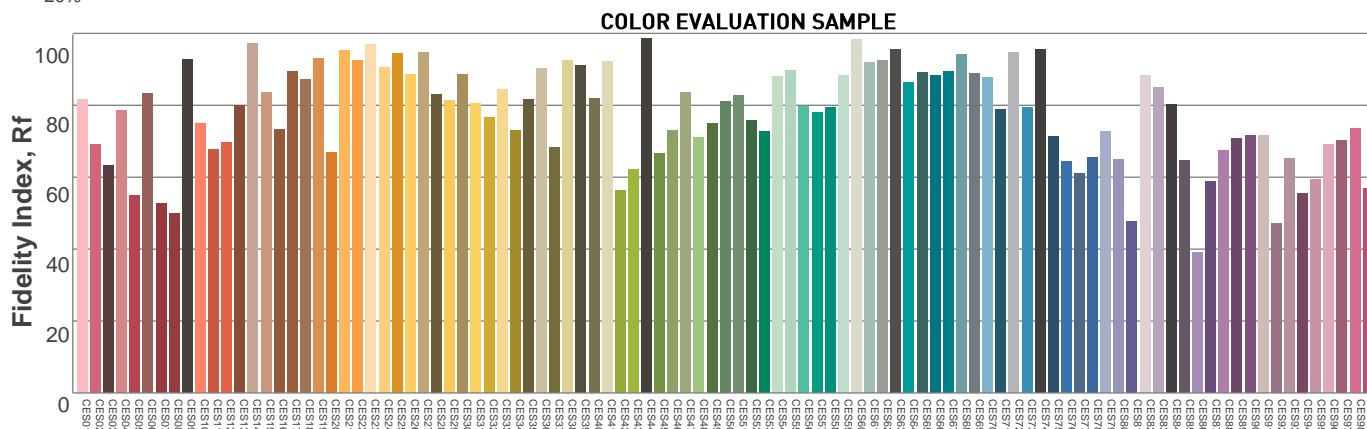
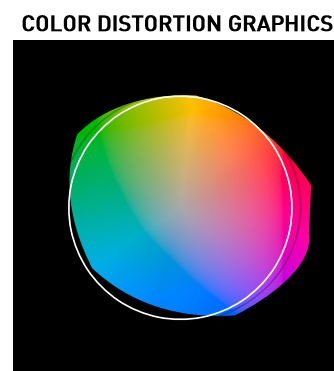
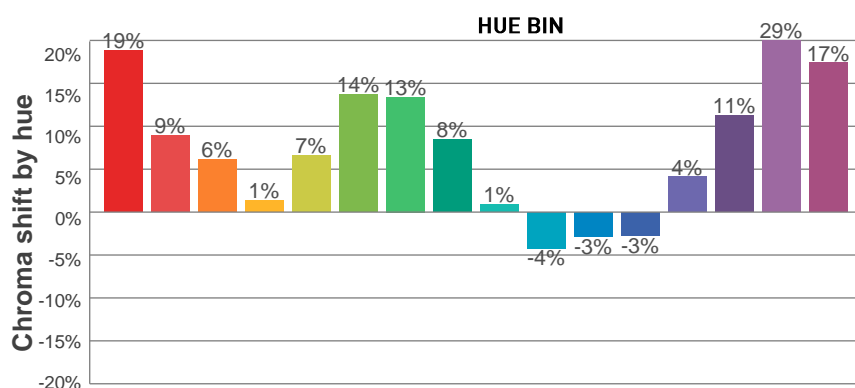
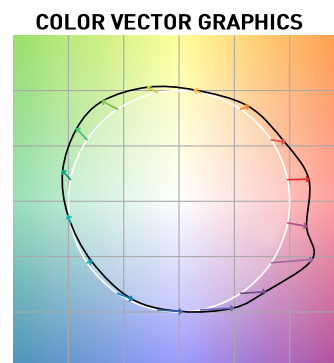
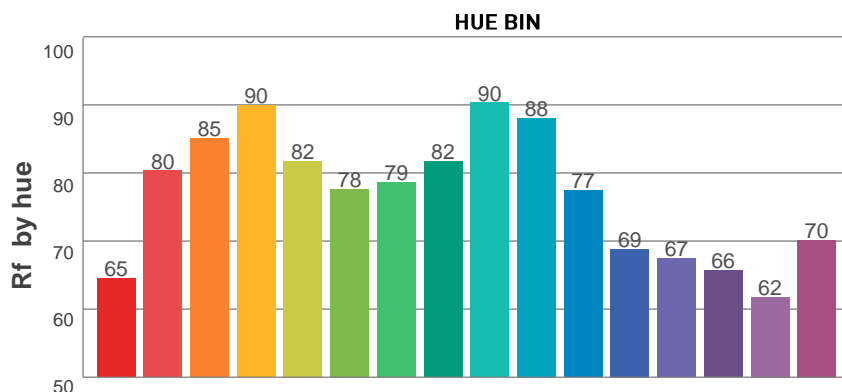
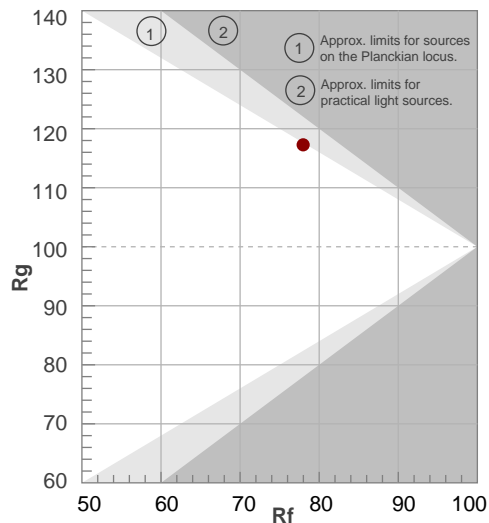
**Rf 78,0**

Fidelity index Rf

**Rg 117,3**

Gamut index Rg

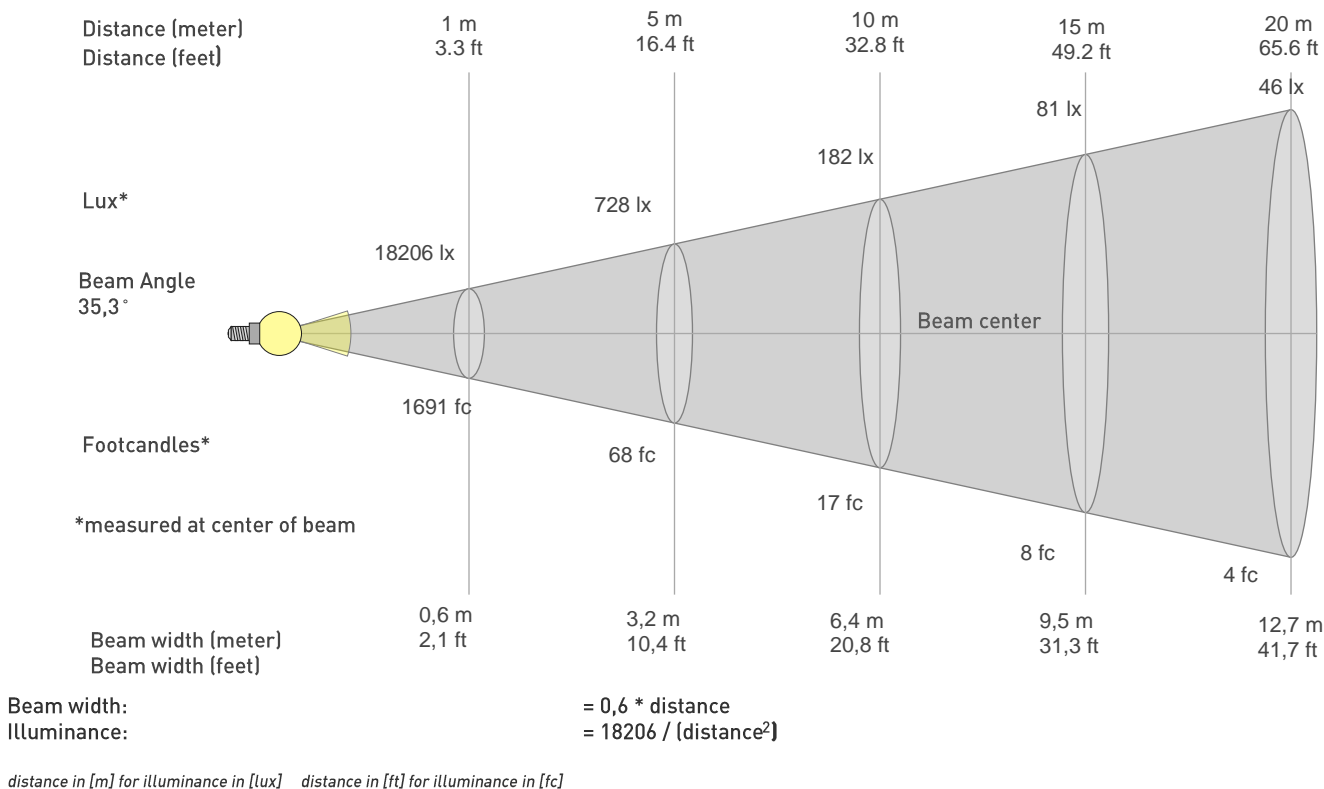
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	65	19%	-3%
2	80	9%	-8%
3	85	6%	-4%
4	90	1%	6%
5	82	7%	8%
6	78	14%	7%
7	79	13%	-3%
8	82	8%	-6%
9	90	1%	-7%
10	88	-4%	1%
11	77	-3%	14%
12	69	-3%	22%
13	67	4%	29%
14	66	11%	19%
15	62	29%	23%
16	70	17%	0%



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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
18206lx	4552lx	2023lx	1138lx	728lx	506lx	372lx	284lx	225lx	182lx	150lx	126lx	108lx	93lx	81lx	71lx	63lx	56lx	50lx	46lx
1691,4fc	422,9fc	187,9fc	105,7fc	67,7fc	47fc	34,5fc	26,4fc	20,9fc	16,9fc	14fc	11,7fc	10fc	8,6fc	7,5fc	6,6fc	5,9fc	5,2fc	4,7fc	4,2fc

