

# Photometric Report

MAC Aura XB – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

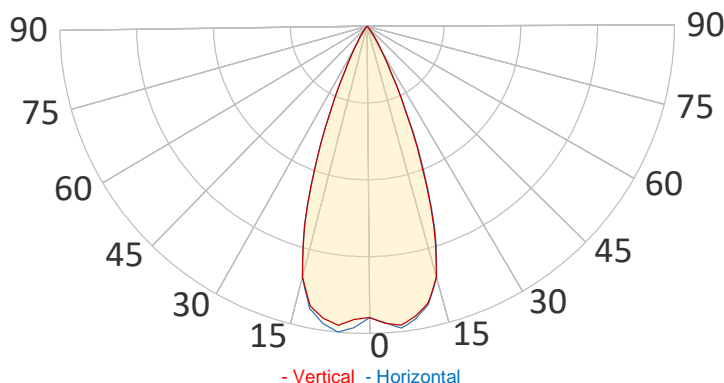
## GENERAL SPECIFICATIONS

Total Fixture Output:	6000 lm
Light Engine Output:	10 klm
Efficacy:	27 lm/W
Lens Option:	N/A
Beam Angle (50%):	9,0-41,7°
Field Angle (10%):	10,3-59,1°
Cut-off Angle (3%):	11,6-72,2°
CRI:	67
CQS:	82
TM-30 Rf:	76
TM-30 Rg:	119
TLCI:	48
Color Temperature:	8500 K



## SAMPLE MEASUREMENT

POLAR PLOT

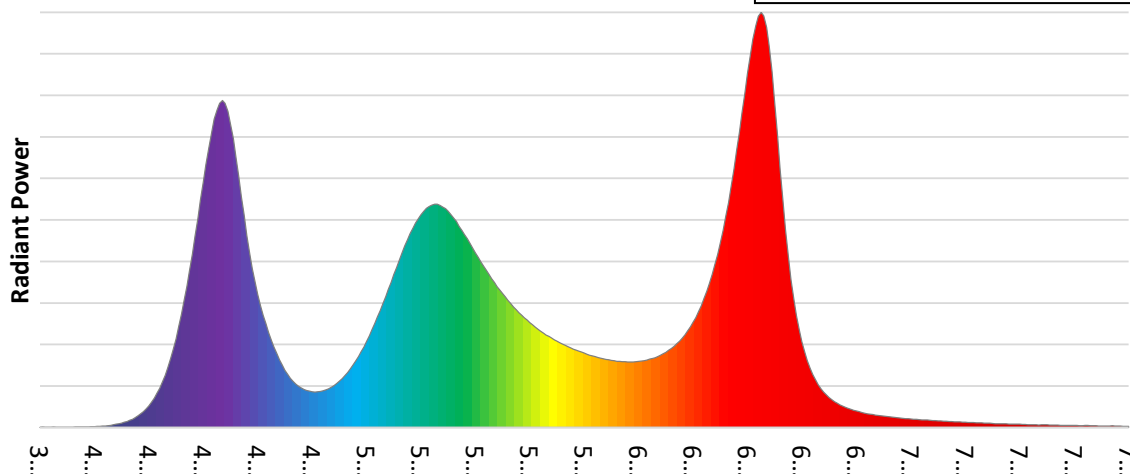


Catalog Number:	90232100HU
Measured Output:	6087 lm
Measured Peak:	13294 cd
Consumed Power:	225 W
Efficacy:	27,1 lm/W

Beam Angle (50%):	41,7°
Field Angle (10%):	59,1°
Cut-off Angle (3%):	72,2°

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

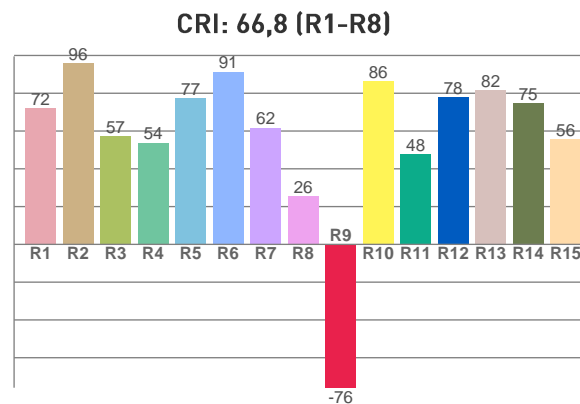
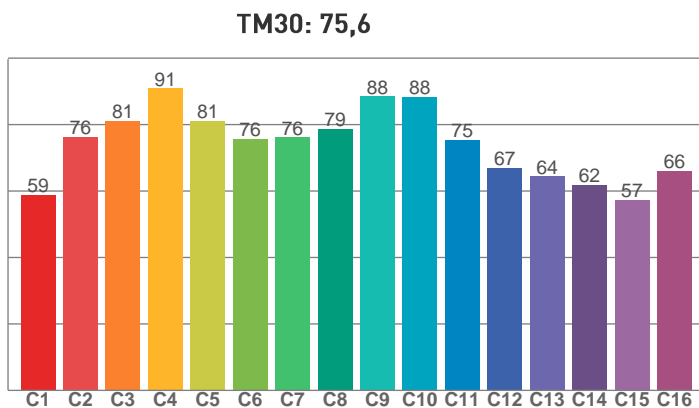
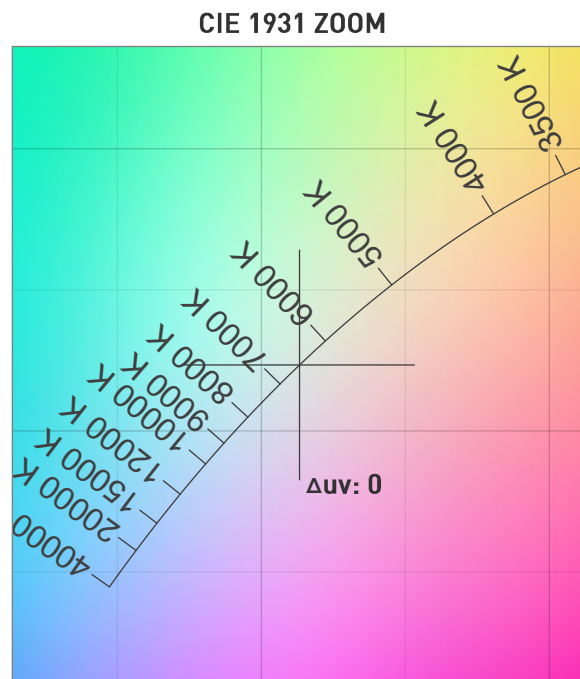
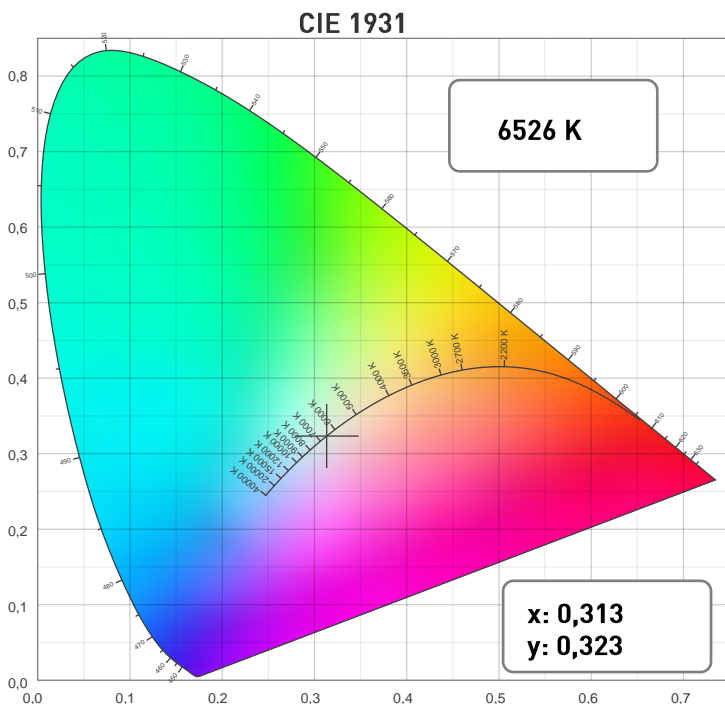
SPECTRAL DISTRIBUTION



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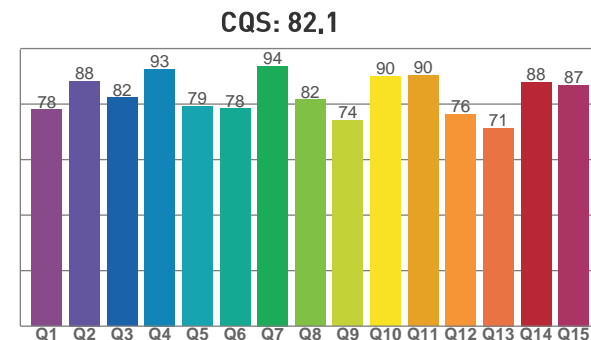
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6526 K	66,8	-75,9	75,6	119,2



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
48	82,1	0,313	0,323	0,200	0,310	0

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TM30

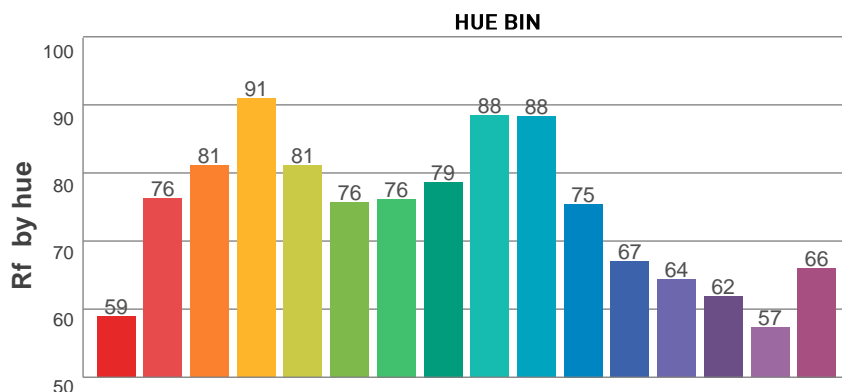
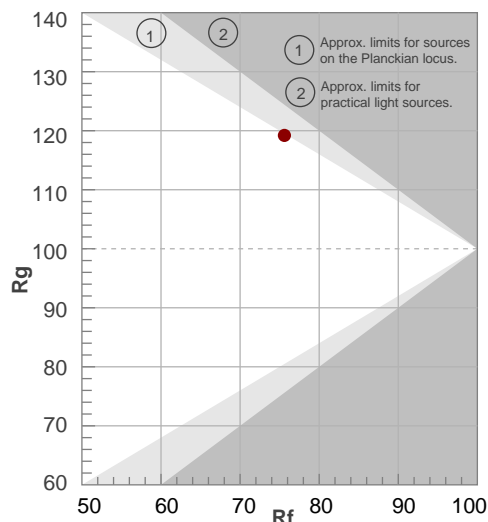
Rf 75,6

Fidelity index Rf

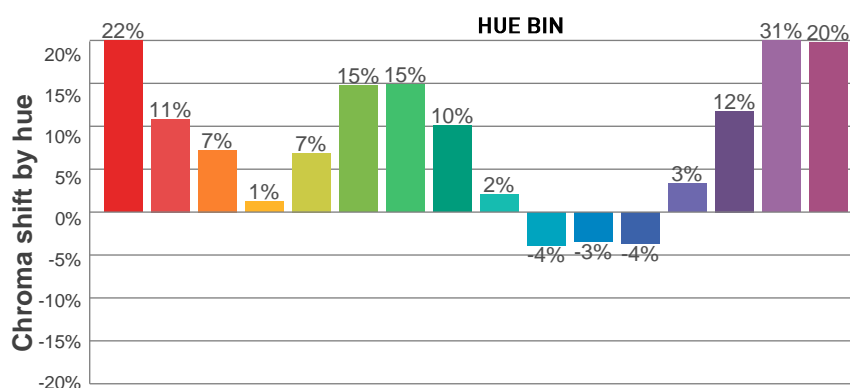
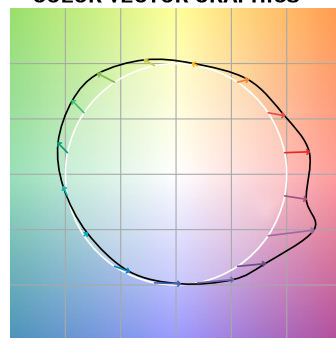
Rg 119,2

Gamut index Rg

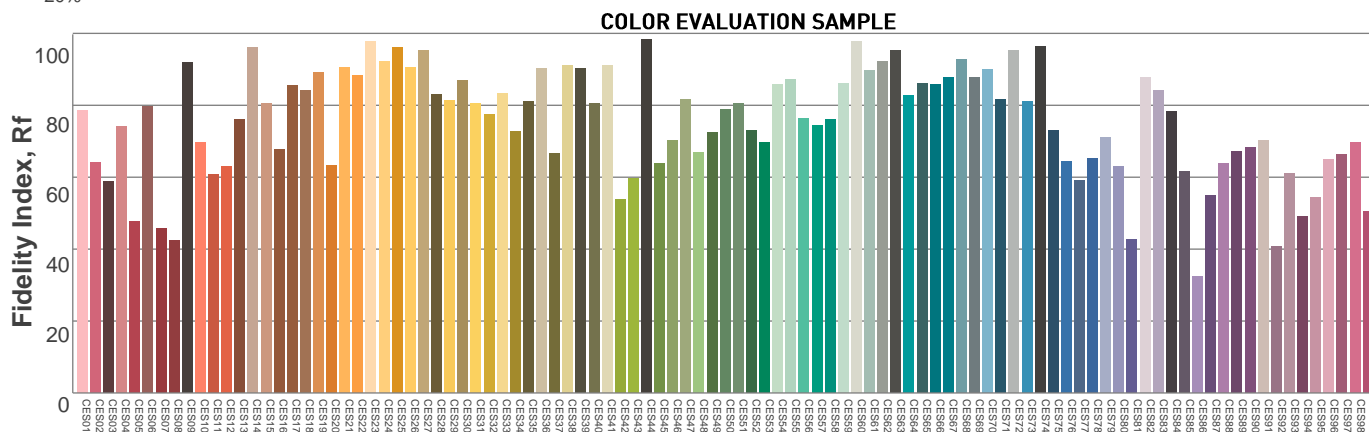
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	59	22%	-4%
2	76	11%	-10%
3	81	7%	-7%
4	91	1%	5%
5	81	7%	8%
6	76	15%	8%
7	76	15%	-3%
8	79	10%	-7%
9	88	2%	-9%
10	88	-4%	0%
11	75	-3%	14%
12	67	-4%	23%
13	64	3%	32%
14	62	12%	22%
15	57	31%	27%
16	66	20%	1%



COLOR VECTOR GRAPHICS



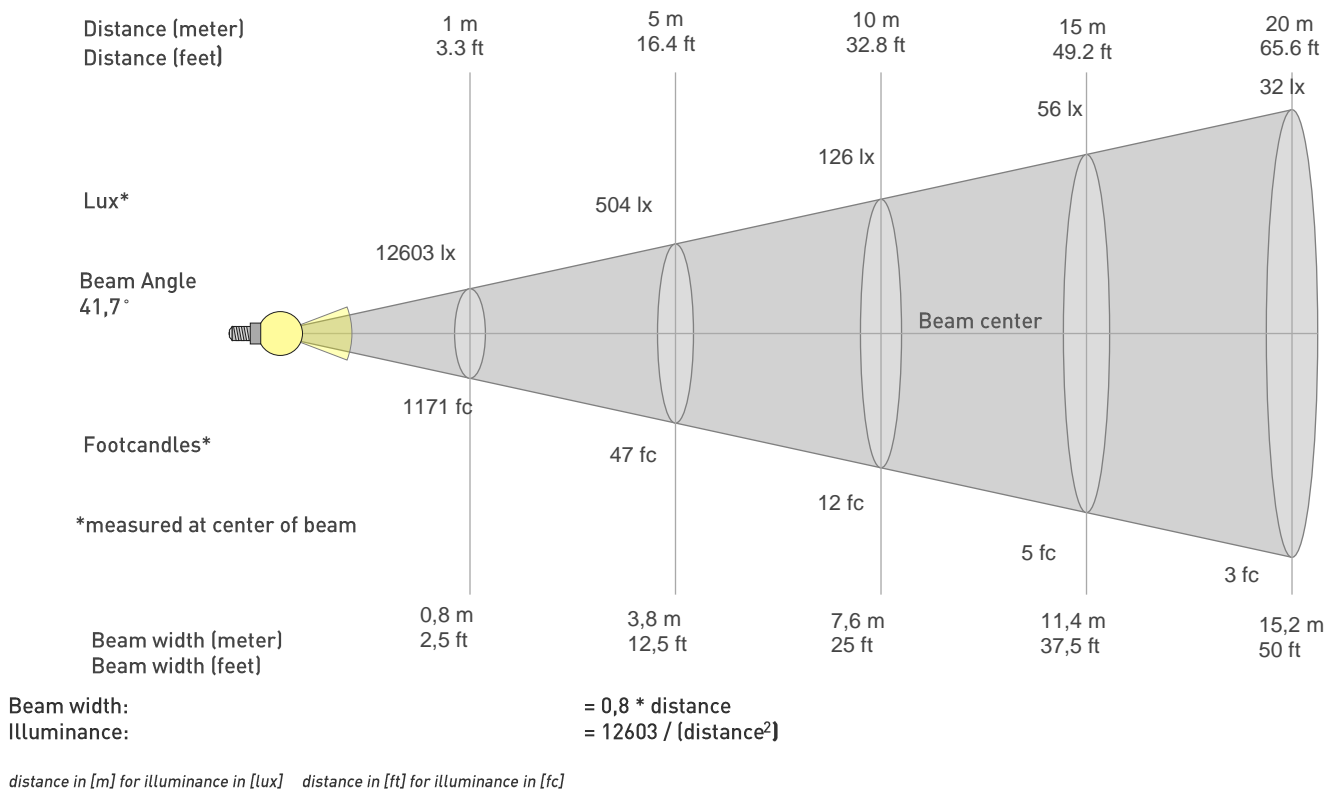
COLOR DISTORTION GRAPHICS



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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
12603lx	3151lx	1400lx	788lx	504lx	350lx	257lx	197lx	156lx	126lx	104lx	88lx	75lx	64lx	56lx	49lx	44lx	39lx	35lx	32lx
1170,8fc	292,7fc	130,1fc	73,2fc	46,8fc	32,5fc	23,9fc	18,3fc	14,5fc	11,7fc	9,7fc	8,1fc	6,9fc	6fc	5,2fc	4,6fc	4,1fc	3,6fc	3,2fc	2,9fc

