

# Photometric Report

MAC Aura PXL – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

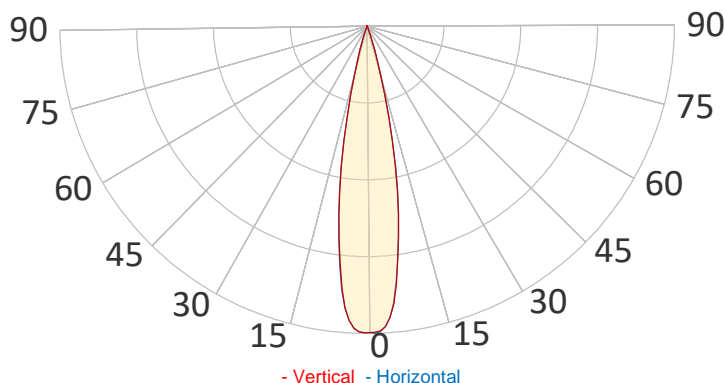
## GENERAL SPECIFICATIONS

Total Fixture Output:	10500 lm
Light Engine Output:	19 klm
Efficacy:	24 lm/W
Lens Option:	N/A
Beam Angle (50%):	6-40°
Field Angle (10%):	7-59°
Cut-off Angle (3%):	8-78°
CRI:	73
CQS:	85
TM-30 Rf:	77
TM-30 Rg:	117
TLCI:	61
Color Temperature:	6500 K



## SAMPLE MEASUREMENT

POLAR PLOT

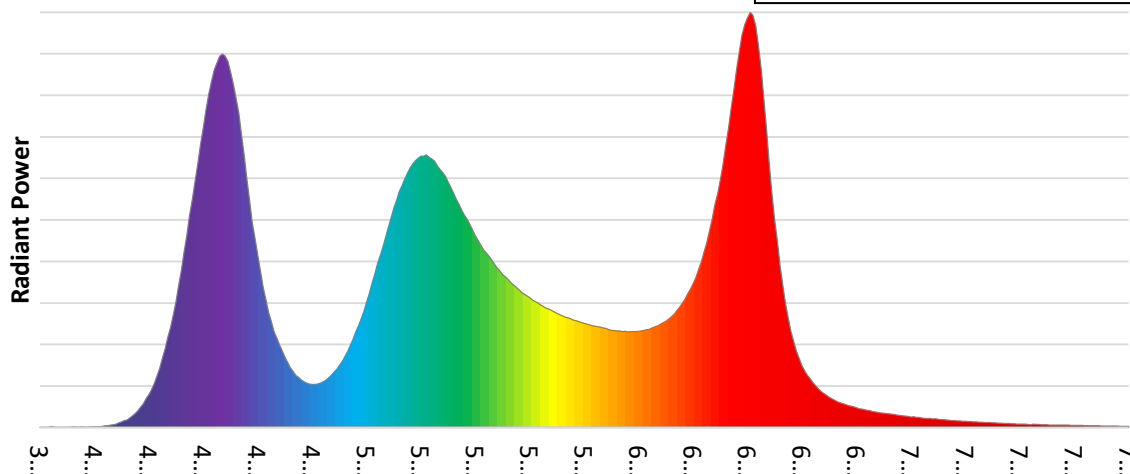


Catalog Number:	90250035HU
Measured Output:	10439 lm
Measured Peak:	77869 cd
Consumed Power:	432,4 W
Efficacy:	24,9 lm/W

Beam Angle (50%):	21,2°
Field Angle (10%):	33,1°
Cut-off Angle (3%):	39,3°

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

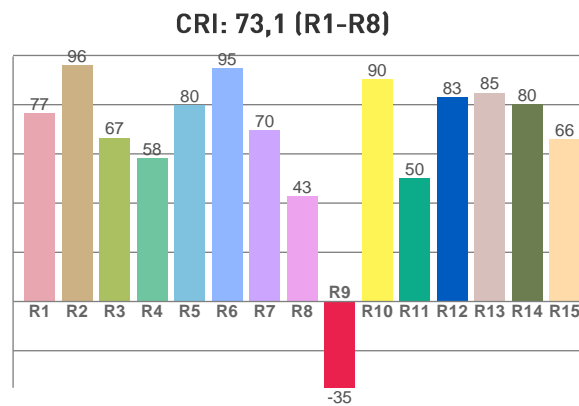
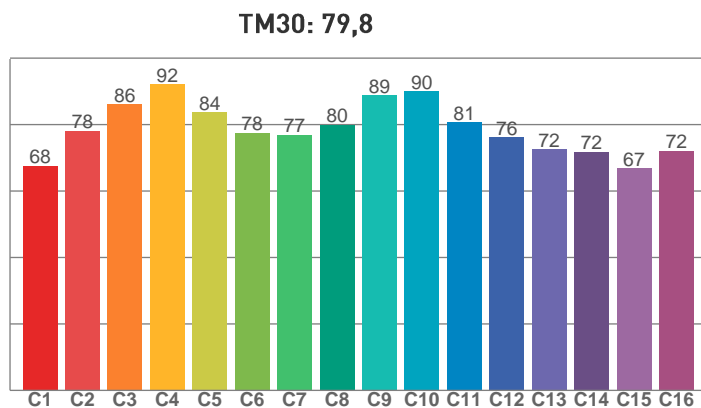
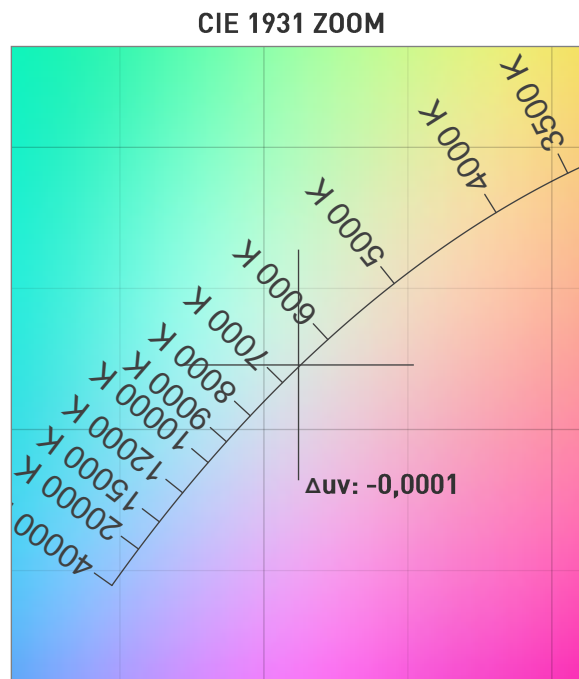
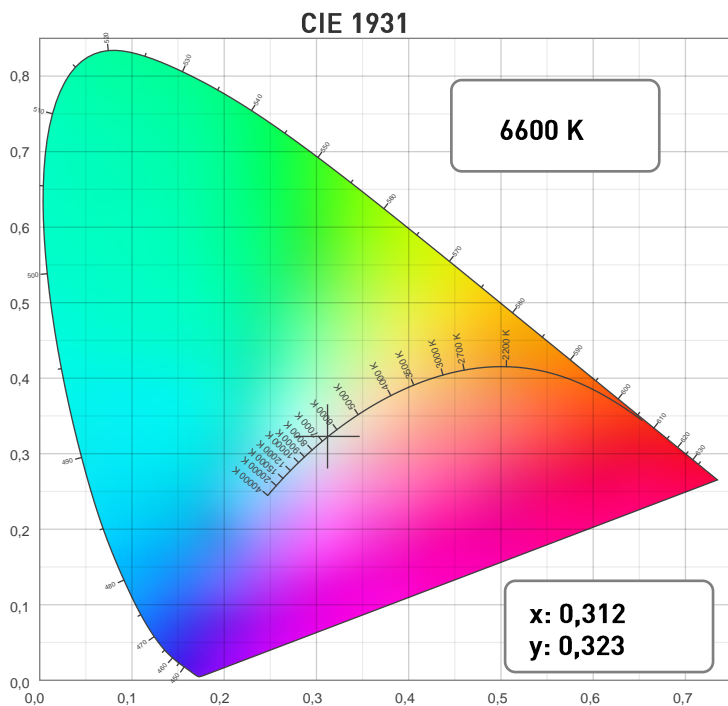
SPECTRAL DISTRIBUTION



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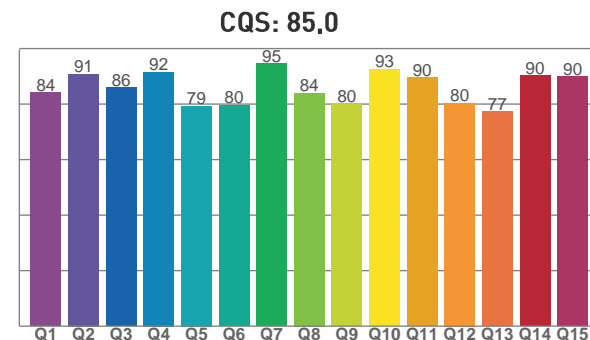
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6600 K	73,1	-35,0	79,8	116,6



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	$\Delta uv$
61	85,0	0,312	0,323	0,200	0,310	-0,0001

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TM30

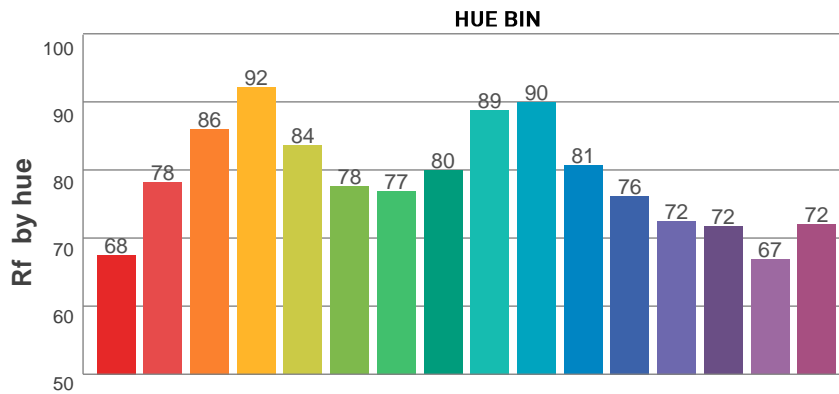
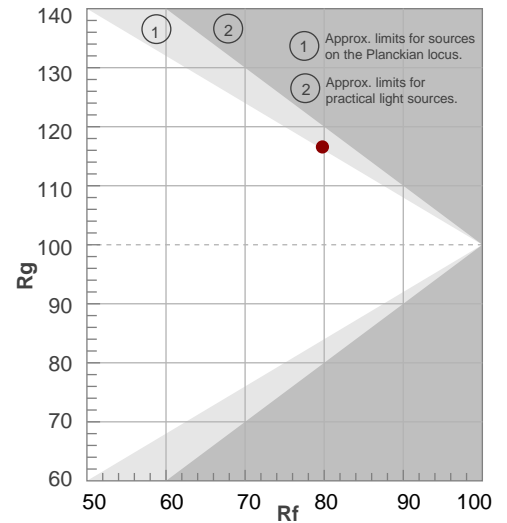
**Rf 79,8**

Fidelity index Rf

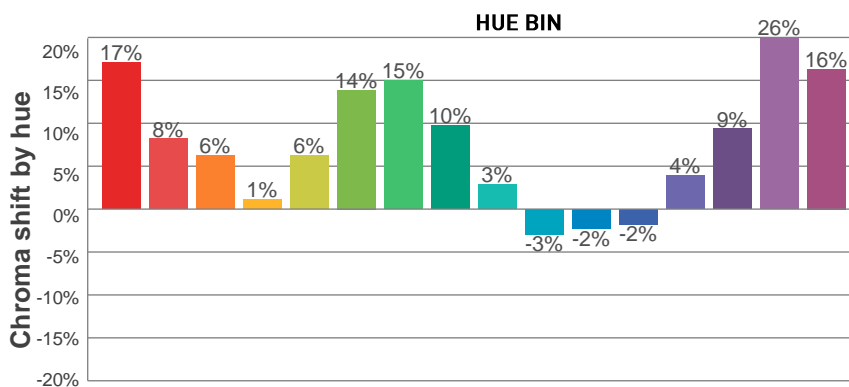
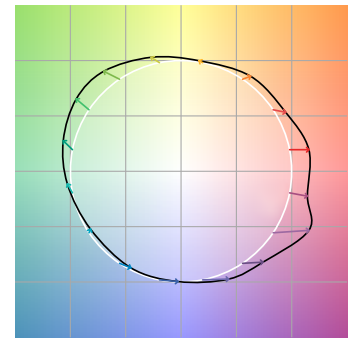
**Rg 116,6**

Gamut index Rg

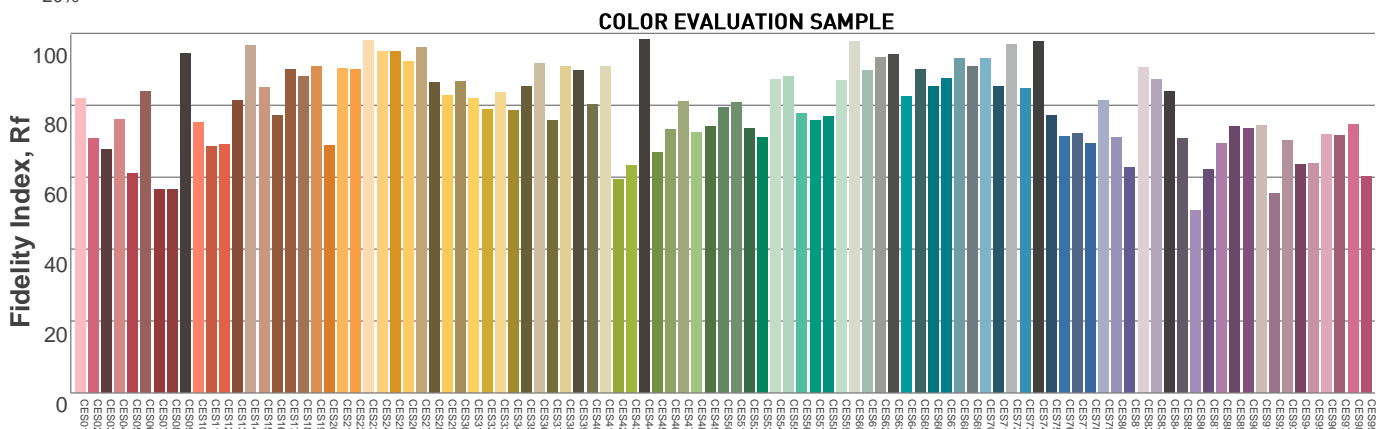
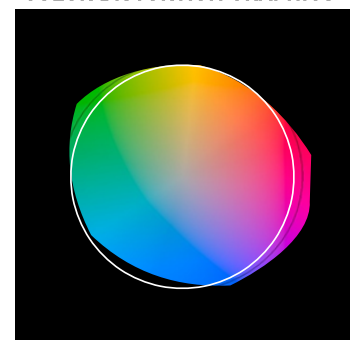
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	68	17%	-3%
2	78	8%	-8%
3	86	6%	-5%
4	92	1%	4%
5	84	6%	6%
6	78	14%	8%
7	77	15%	-2%
8	80	10%	-6%
9	89	3%	-9%
10	90	-3%	-2%
11	81	-2%	11%
12	76	-2%	17%
13	72	4%	23%
14	72	9%	16%
15	67	26%	20%
16	72	16%	0%



COLOR VECTOR GRAPHICS



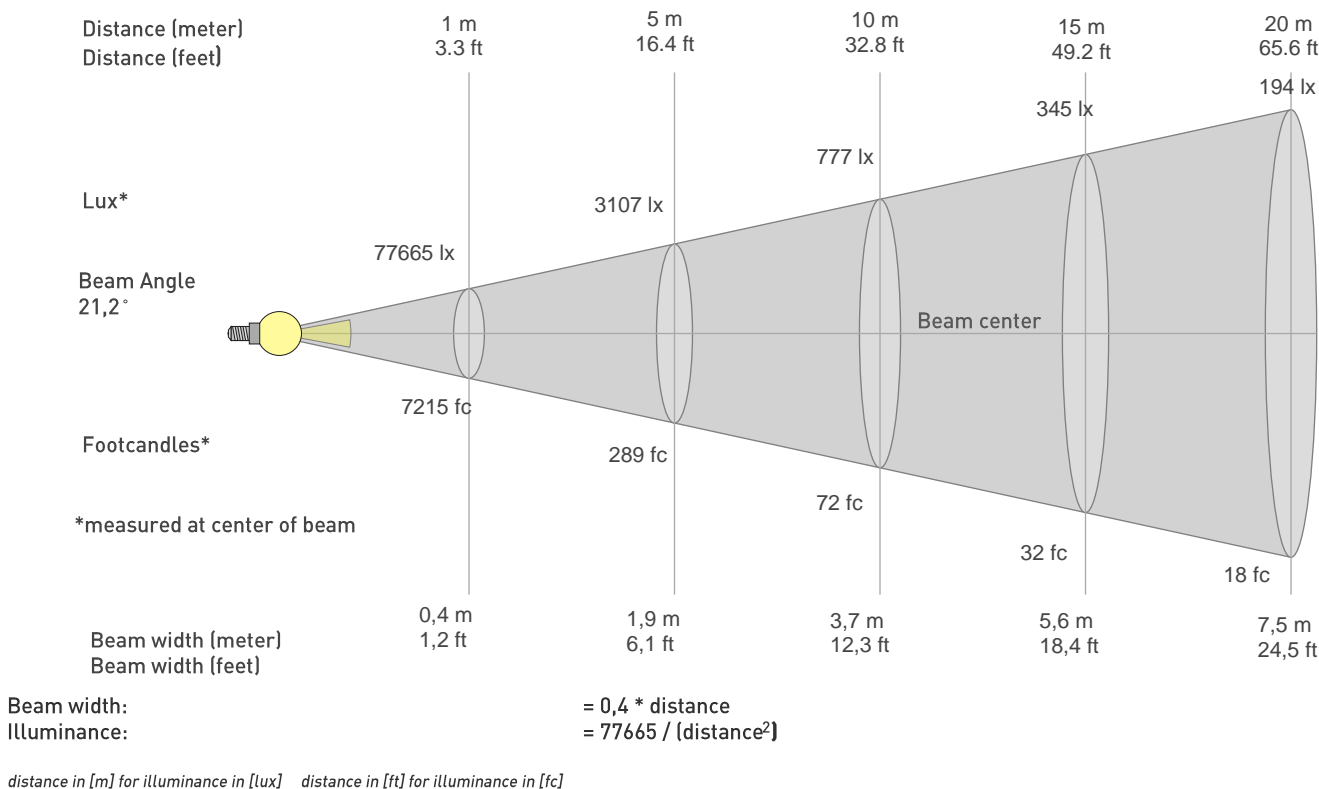
COLOR DISTORTION GRAPHICS



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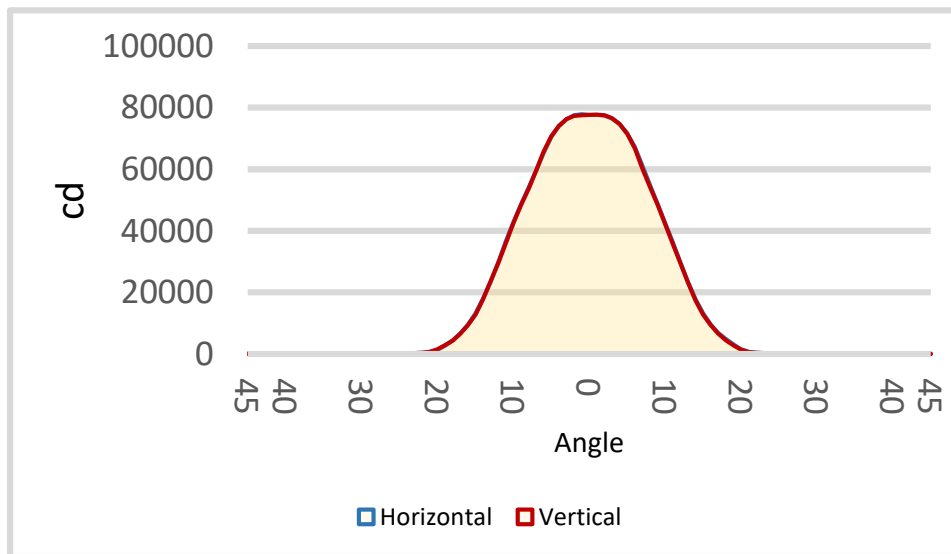
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## BEAM DETAILS



## 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
77665lx	19416lx	8629lx	4854lx	3107lx	2157lx	1585lx	1214lx	959lx	777lx	642lx	539lx	460lx	396lx	345lx	303lx	269lx	240lx	215lx	194lx
7215,4fc	1803,8fc	801,7fc	451fc	288,6fc	200,4fc	147,3fc	112,7fc	89,1fc	72,2fc	59,6fc	50,1fc	42,7fc	36,8fc	32,1fc	28,2fc	25fc	22,3fc	20fc	18fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
21,2°	33,1°	39,3°