

# Photometric Report

MAC Aura PXL – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

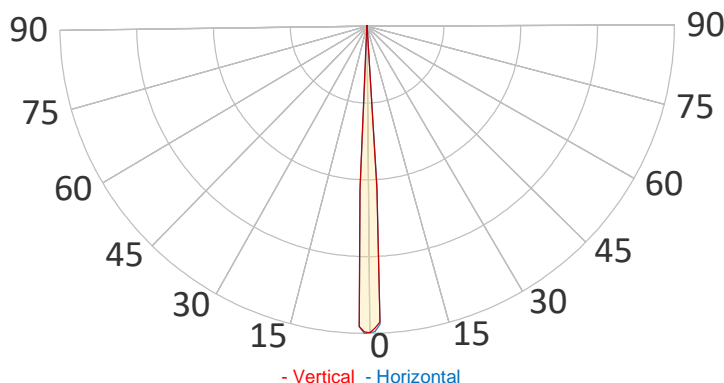
## GENERAL SPECIFICATIONS

Total Fixture Output:	10500 lm
Light Engine Output:	19 klm
Efficacy:	20 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

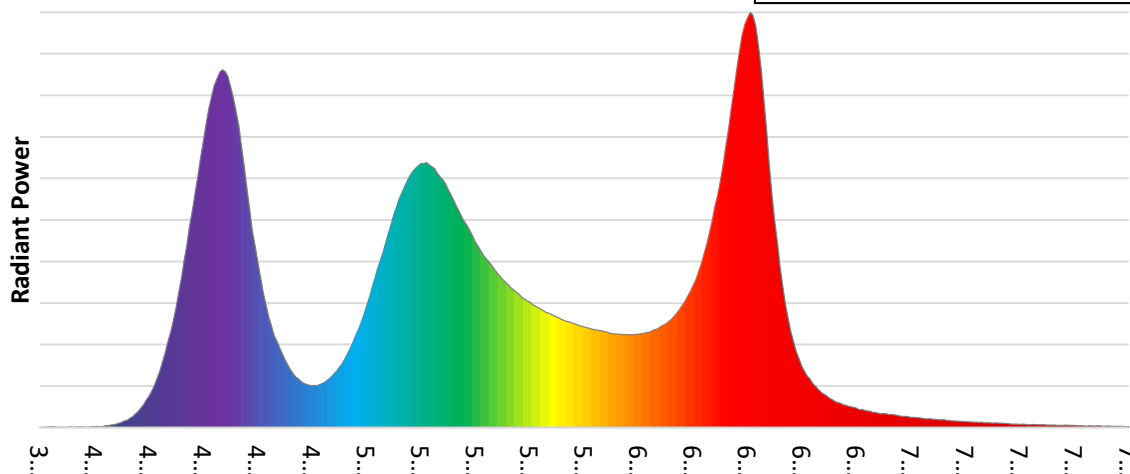


Catalog Number:	90250035HU
Measured Output:	8357 lm
Measured Peak:	940588 cd
Consumed Power:	432,4 W
Efficacy:	19,9 lm/W

Beam Angle (50%):	6°
Field Angle (10%):	7,4°
Cut-off Angle (3%):	8,1°

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

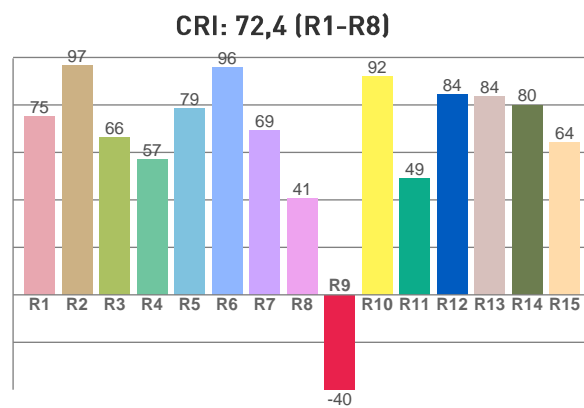
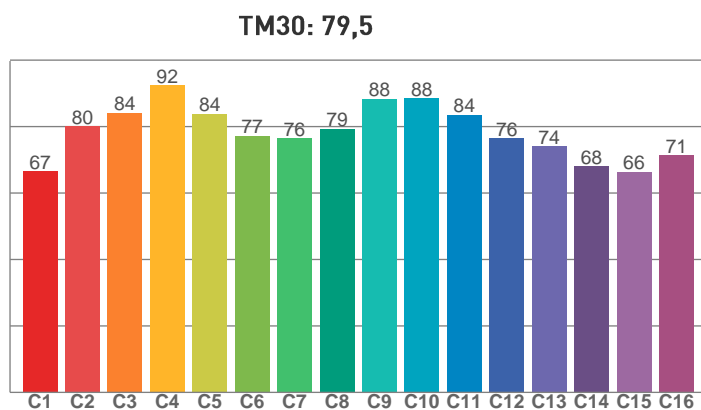
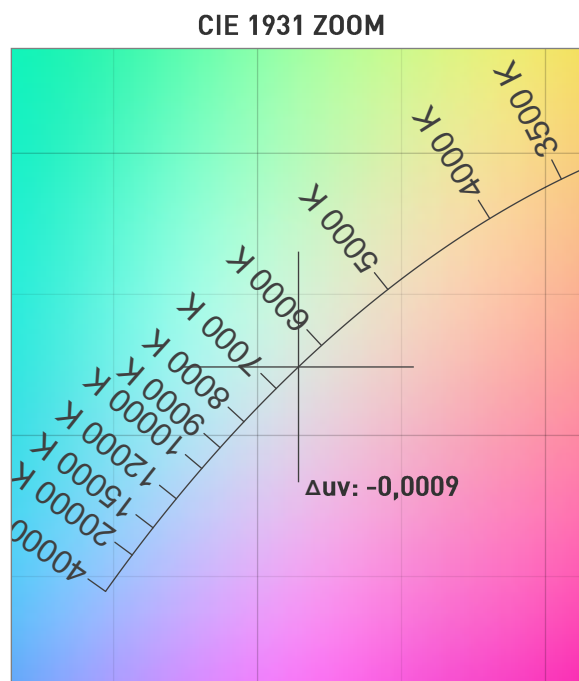
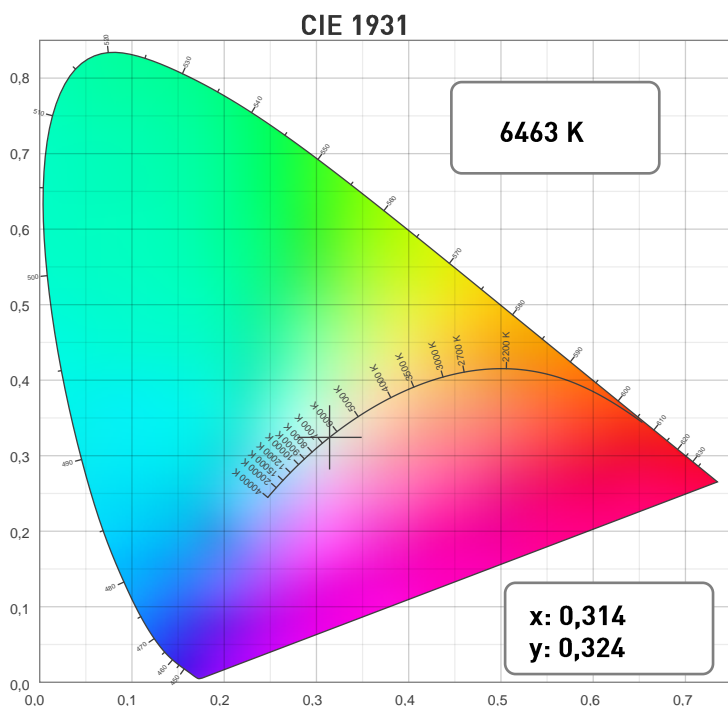
SPECTRAL DISTRIBUTION



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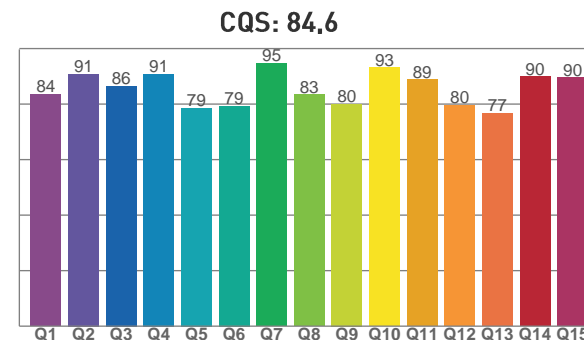
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6463 K	72,4	-40,0	79,5	117,4



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	84,6	0,314	0,324	0,201	0,311	-0,0009

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TM30

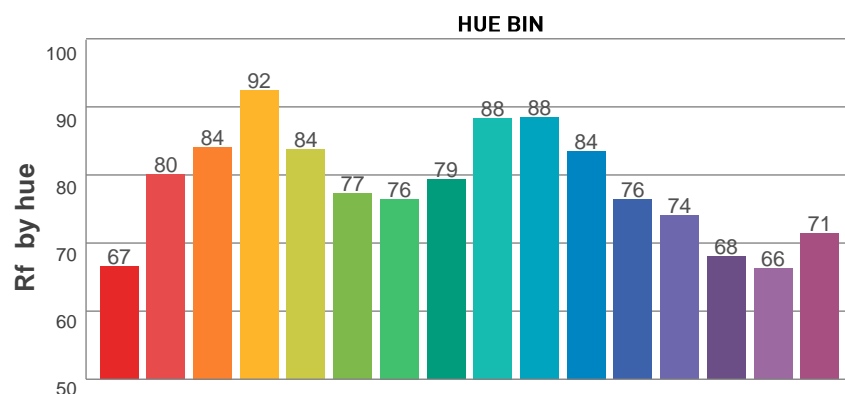
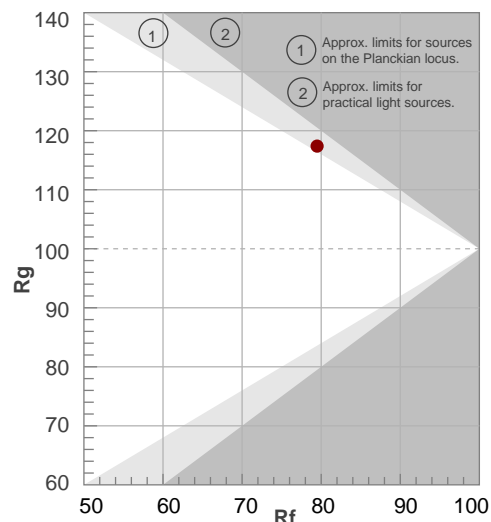
Rf 79,5

Fidelity index Rf

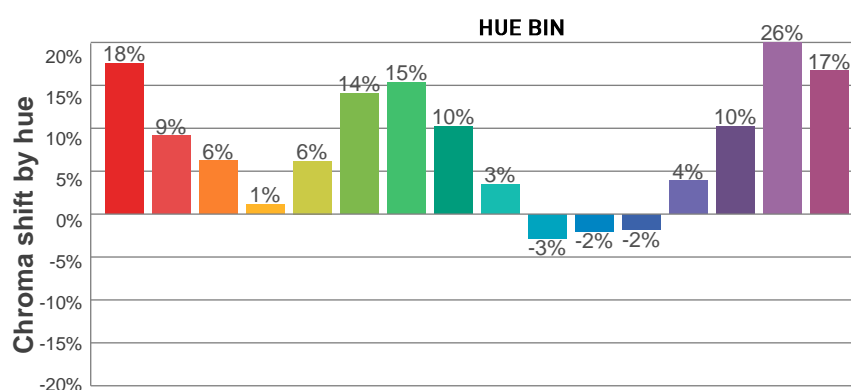
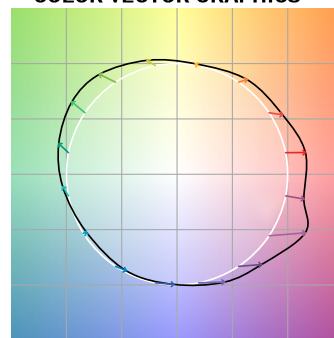
Rg 117,4

Gamut index Rg

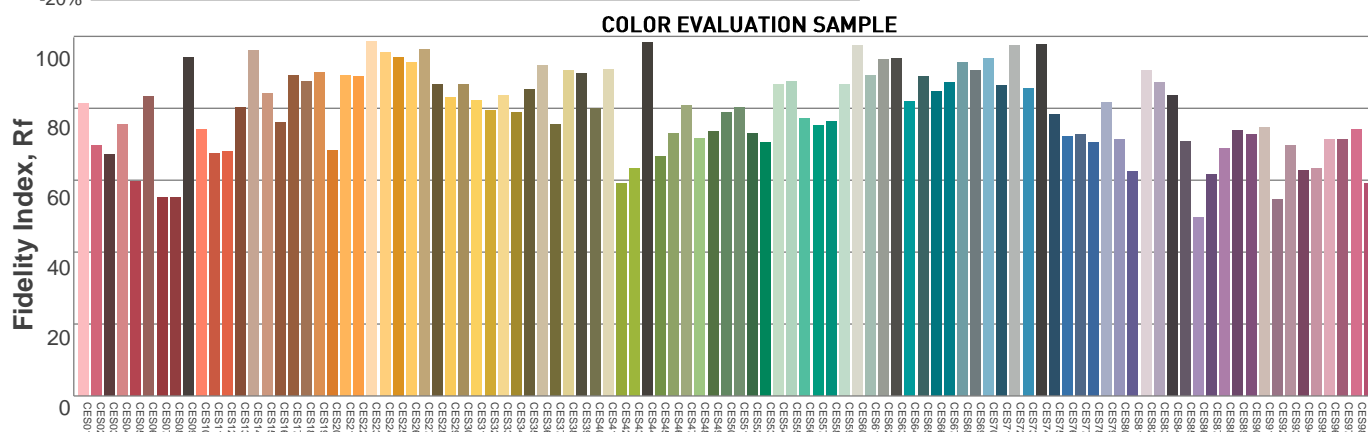
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	67	18%	-3%
2	80	9%	-8%
3	84	6%	-5%
4	92	1%	3%
5	84	6%	6%
6	77	14%	8%
7	76	15%	-2%
8	79	10%	-6%
9	88	3%	-9%
10	88	-3%	-3%
11	84	-2%	10%
12	76	-2%	16%
13	74	4%	23%
14	68	10%	18%
15	66	26%	20%
16	71	17%	0%



COLOR VECTOR GRAPHICS



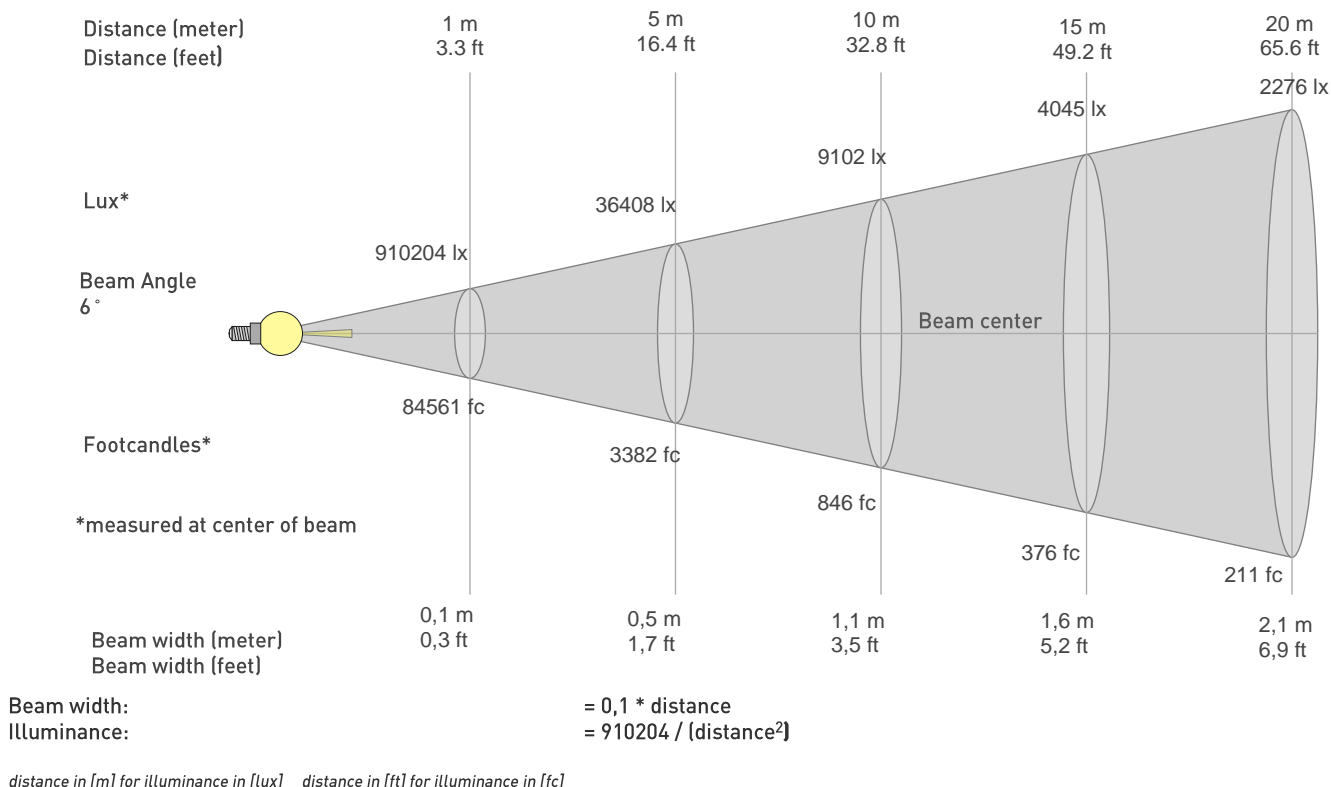
COLOR DISTORTION GRAPHICS



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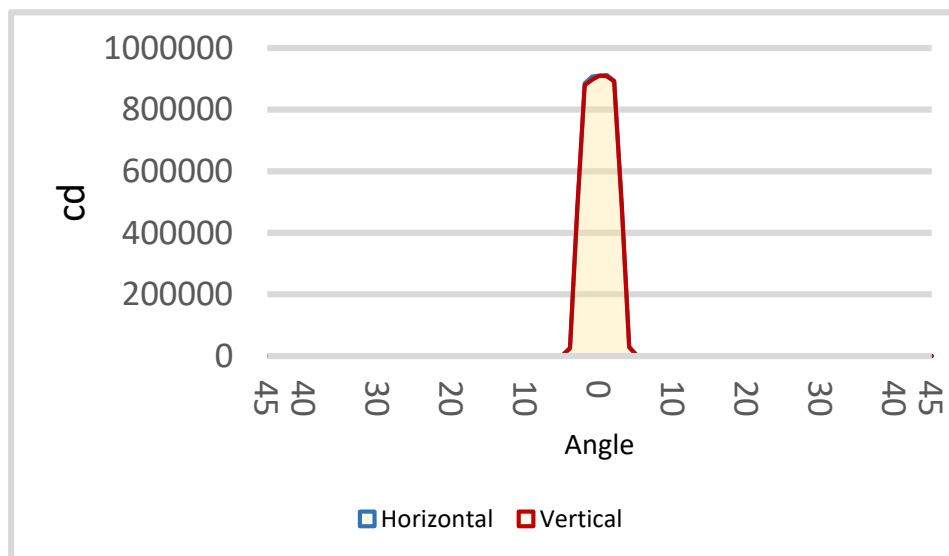
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## BEAM DETAILS



## 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
910204lx	227551lx	101134lx	56888lx	36408lx	25283lx	18576lx	14222lx	11237lx	9102lx	7522lx	6321lx	5386lx	4644lx	4045lx	3555lx	3149lx	2809lx	2521lx	2276lx
84560,7fc	21140,2fc	9395,6fc	5285fc	3382,4fc	2348,9fc	1725,7fc	1321,3fc	1044fc	845,6fc	698,8fc	587,2fc	500,4fc	431,4fc	375,8fc	330,3fc	292,6fc	261fc	234,2fc	211,4fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
6°	7,4°	8,1°