

# Photometric Report

MAC Aura PXL – Narrow

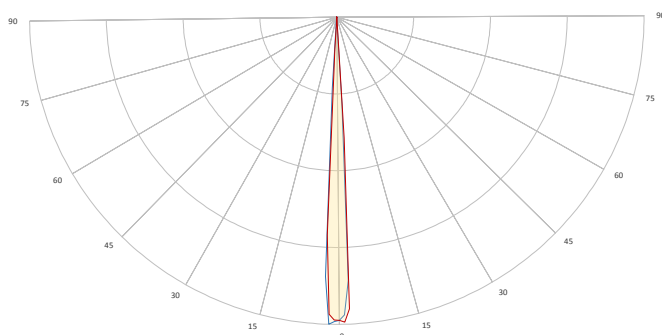
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	10500 lm
Light Engine Output:	19 klm
Efficacy:	20 Lumen/Watt
Lens Option:	N/A
Zoomrange:	7-59°
CRI:	73
CQS:	85
TM-30 Rf:	77
TM-30 Rg:	117
TLCI:	61
Color Temperature:	6500 K



## MEASUREMENT



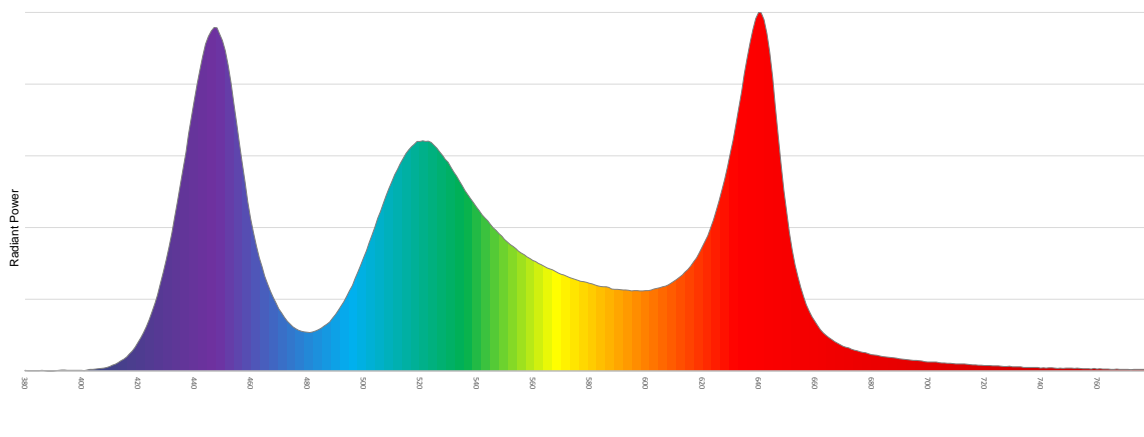
- Vertical - Horizontal

Catalog Number:	90250035HU
Measured Output:	8487 lm
Measured Peak:	879473 cd
Consumed Power:	420 W
Efficacy:	19,8 Lm/Watt

Beam Angle (50%):	6,2°
Field Angle (10%):	7,6°
Cutoff Angle (3%):	8,2°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz

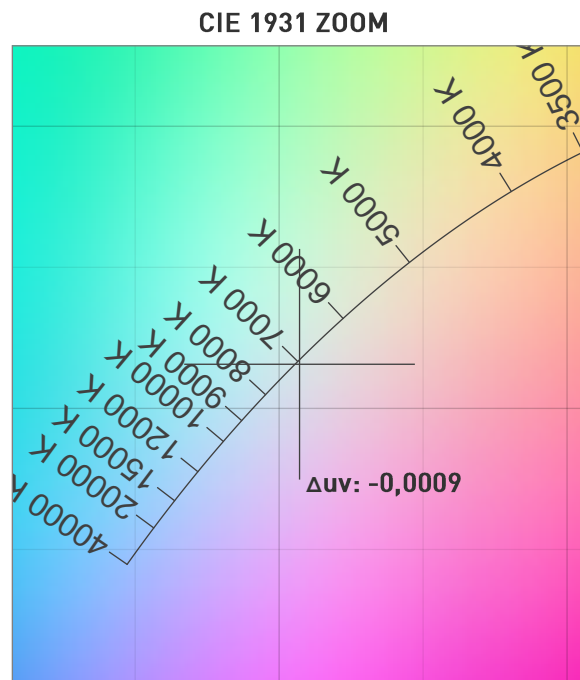
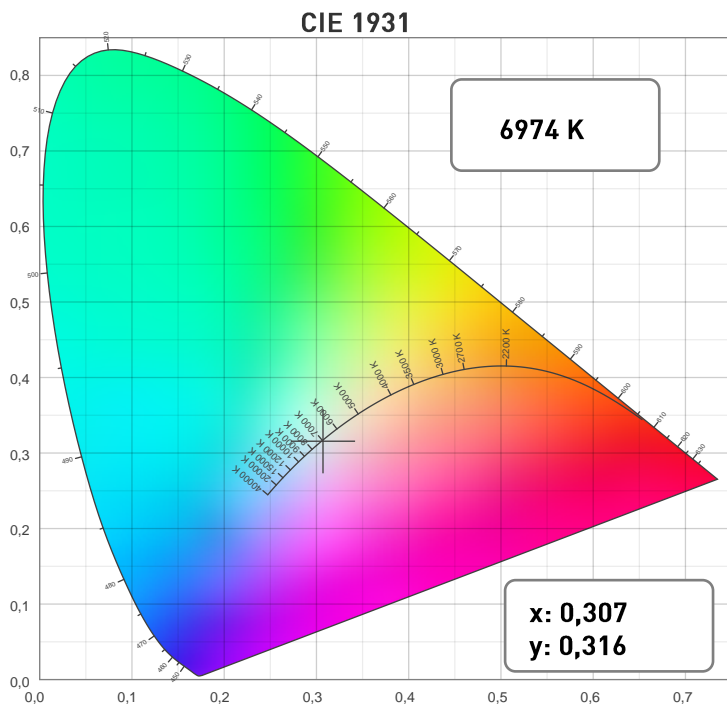
SPECTRAL DISTRIBUTION



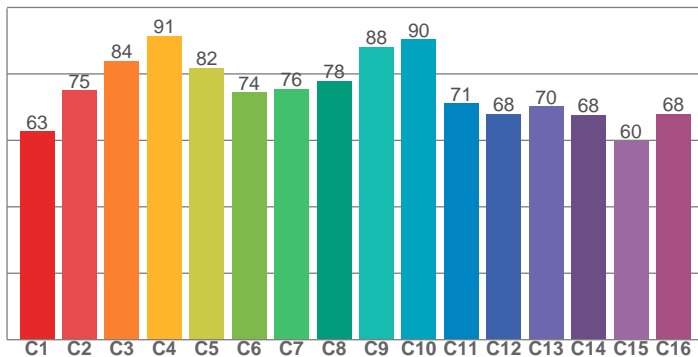
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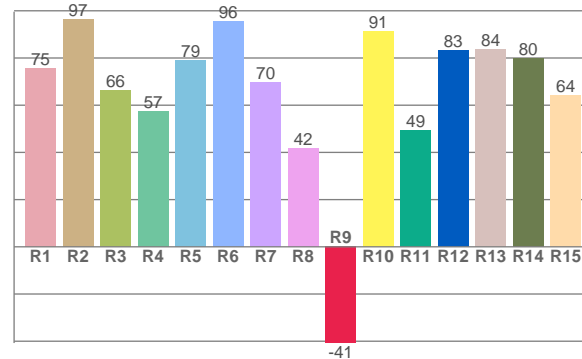
## CHROMATICITY



TM30: 77,1



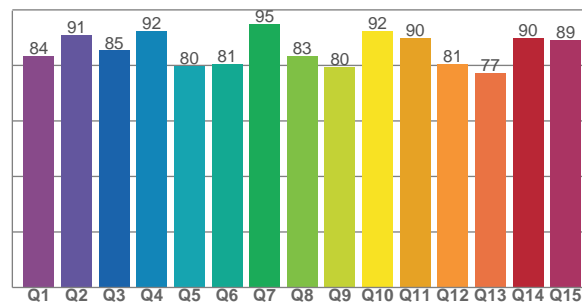
CRI: 72,7 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6974 K	72,7	-40,8	77,1	117,1

CQS: 85,0



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	0,307	0,316	0,199	0,307	-0,0009

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TM30

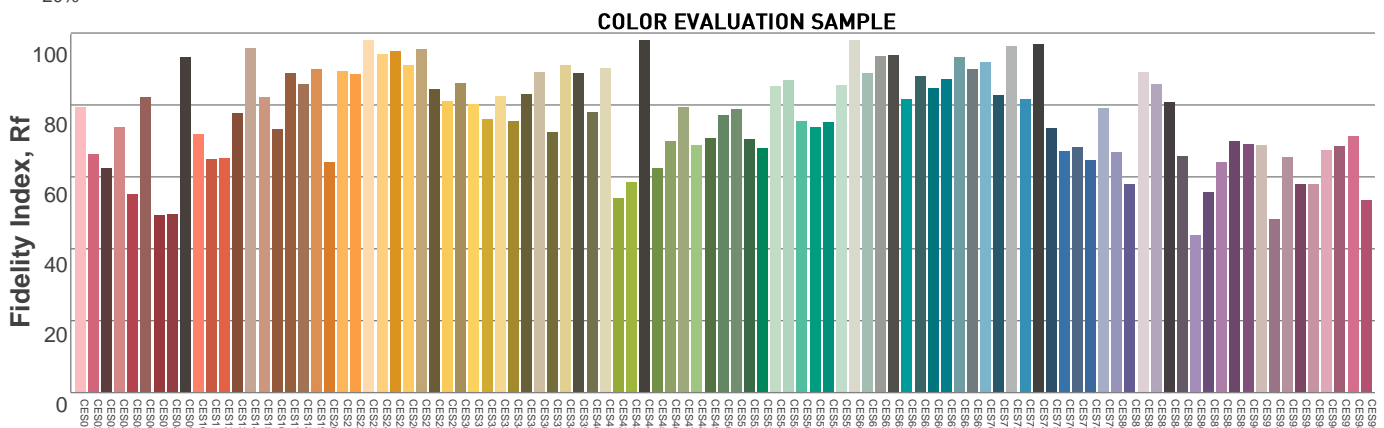
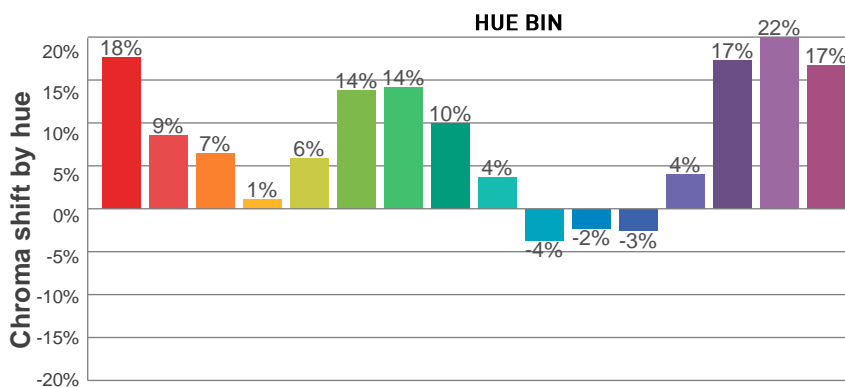
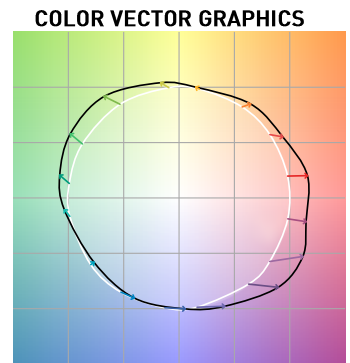
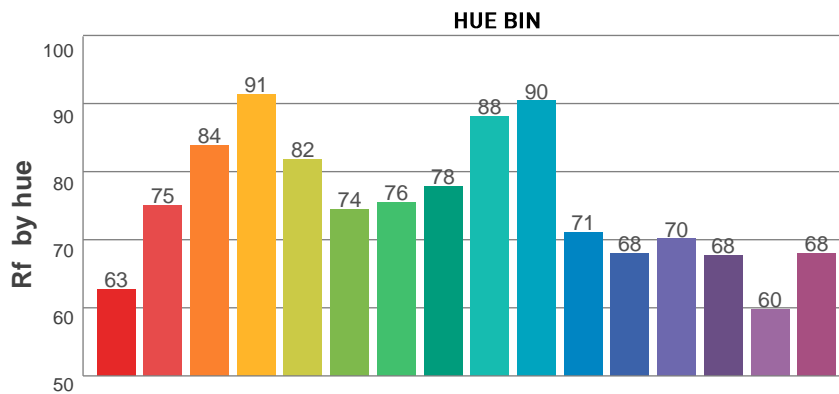
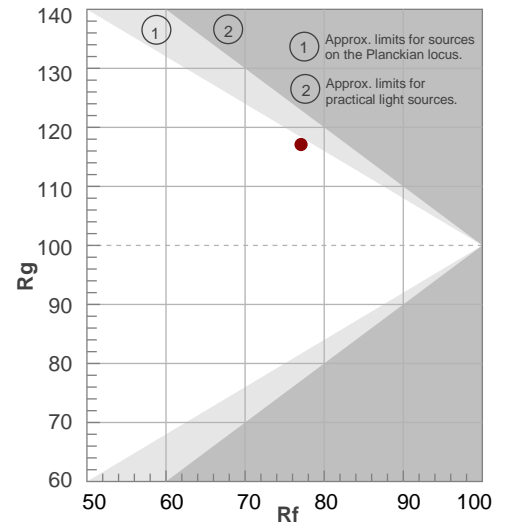
Rf 77,1

Fidelity index Rf

Rg 117,1

Gamut index Rg

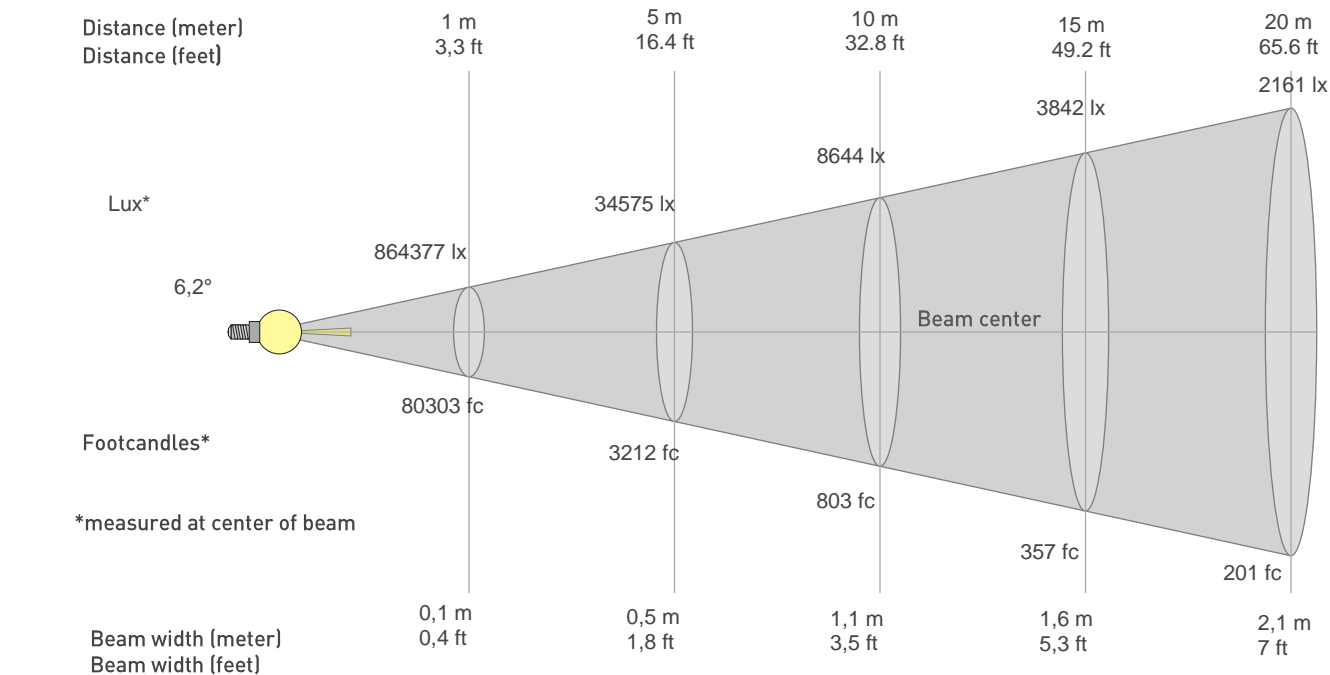
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	63	18%	-3%
2	75	9%	-8%
3	84	7%	-5%
4	91	1%	4%
5	82	6%	6%
6	74	14%	8%
7	76	14%	-2%
8	78	10%	-6%
9	88	4%	-7%
10	90	-4%	0%
11	71	-2%	13%
12	68	-3%	18%
13	70	4%	25%
14	68	17%	21%
15	60	22%	20%
16	68	17%	1%



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## BEAM DETAILS

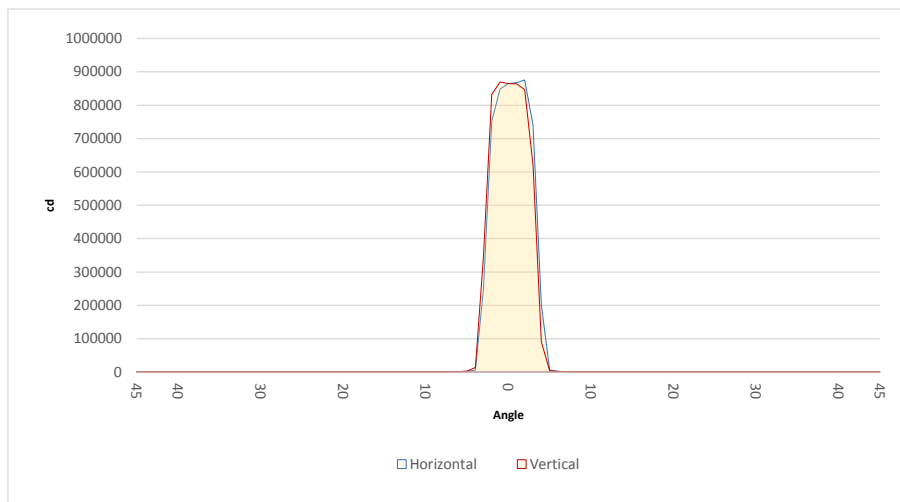


Beam width: = 0,1 \* distance  
Illuminance: = 864377 / (distance<sup>2</sup>)

distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

## 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
864377lx	216094lx	96042lx	54024lx	34575lx	24010lx	17640lx	13506lx	10671lx	8644lx	7144lx	6003lx	5115lx	4410lx	3842lx	3376lx	2991lx	2668lx	2394lx	2161lx
80303,2fc	20075,8fc	8922,6fc	5019fc	3212,1fc	2230,6fc	1638,8fc	1254,7fc	991,4fc	803fc	663,7fc	557,7fc	475,2fc	409,7fc	356,9fc	313,7fc	277,9fc	247,8fc	222,4fc	200,8fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
6,2°	7,6°	8,2°