

# Photometric Report

MAC Aura Raven XIP – Wide with Beam Shaper

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

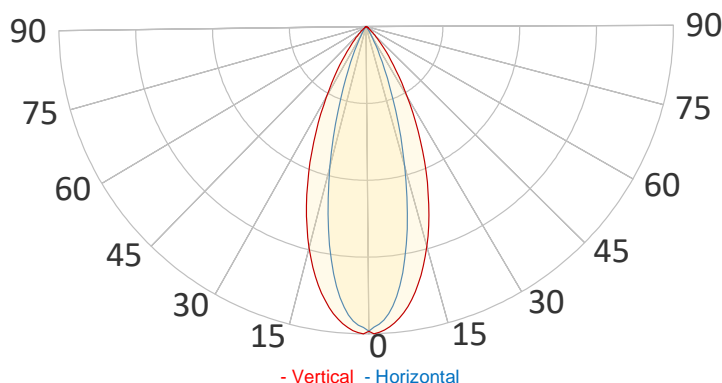
## GENERAL SPECIFICATIONS

Total Fixture Output:	23000 lm
Light Engine Output:	39000 lm
Efficacy:	22.5 lm/W
Lens Option:	Beam Shaper
Beam Angle (50%):	9,4 :35,6 - 29,2:44,6°
Field Angle (10%):	16,9:53,7 - 50,6:76,6°
Cut-off Angle (3%):	20,9:62,0 - 61,6:94,1°
CRI:	82 (+/- 3)
CQS:	89 (+/- 3)
TM-30 Rf:	84 (+/- 3)
TM-30 Rg:	110 (+/- 3)
TLCI:	84 (+/- 3)
Color Temperature:	6500 K



## SAMPLE MEASUREMENT

POLAR PLOT

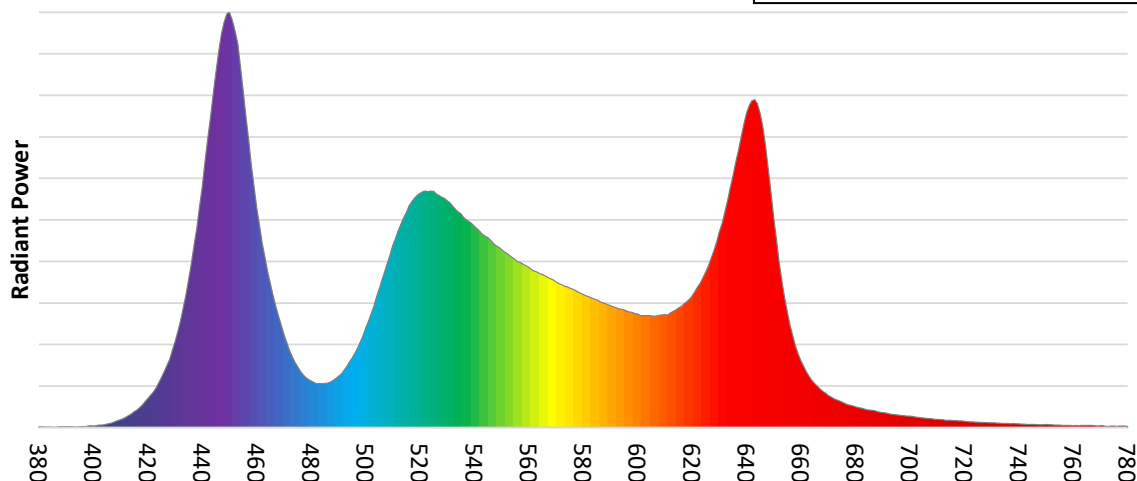


Catalog Number:	MAR-90250405HU
Measured Output:	23220 lm
Measured Peak:	50596 cd
Consumed Power:	1020 W
Efficacy:	22.8 lm/W

Beam Angle (50%):	29,2:44,6°
Field Angle (10%):	50,6:76,6°
Cut-off Angle (3%):	61,6:94,1°

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

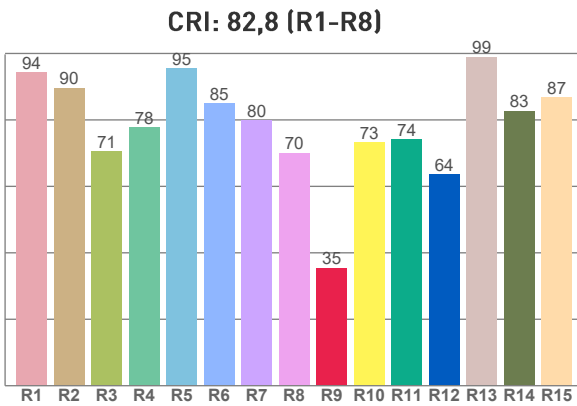
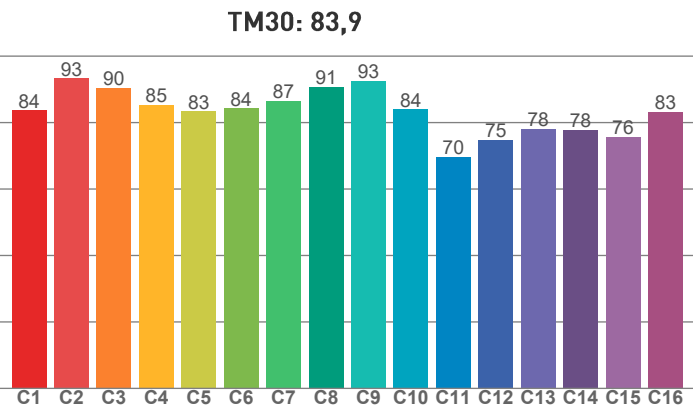
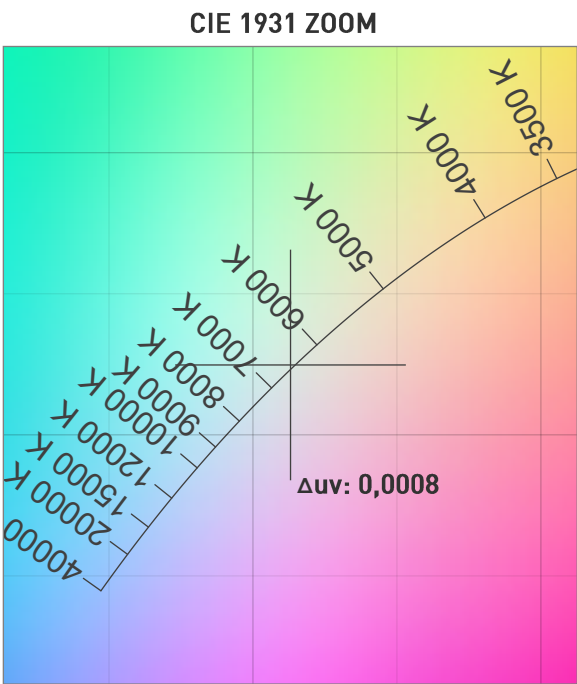
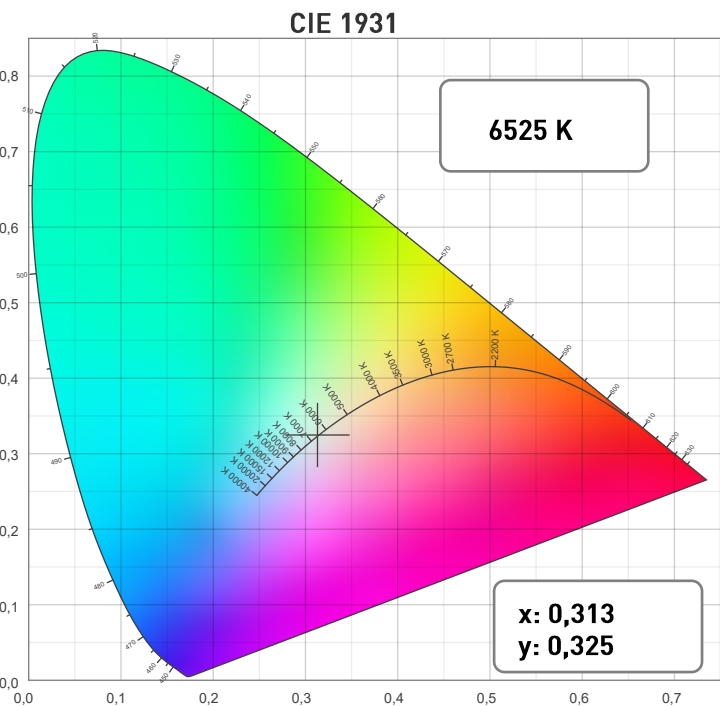
SPECTRAL DISTRIBUTION



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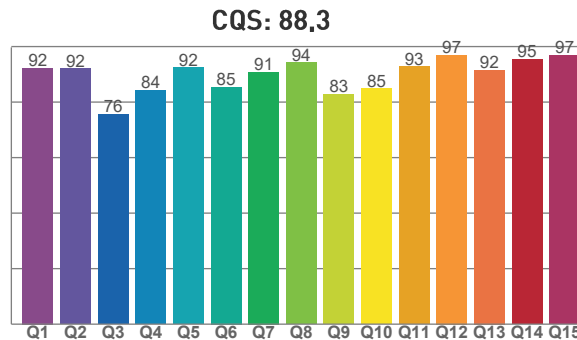
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## CHROMATICITY



### COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6525 K	82,8	35,5	83,9	109,8



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	$\Delta uv$
84 (+/- 3)	88,3	0,313	0,325	0,200	0,311	0,0008

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TM30

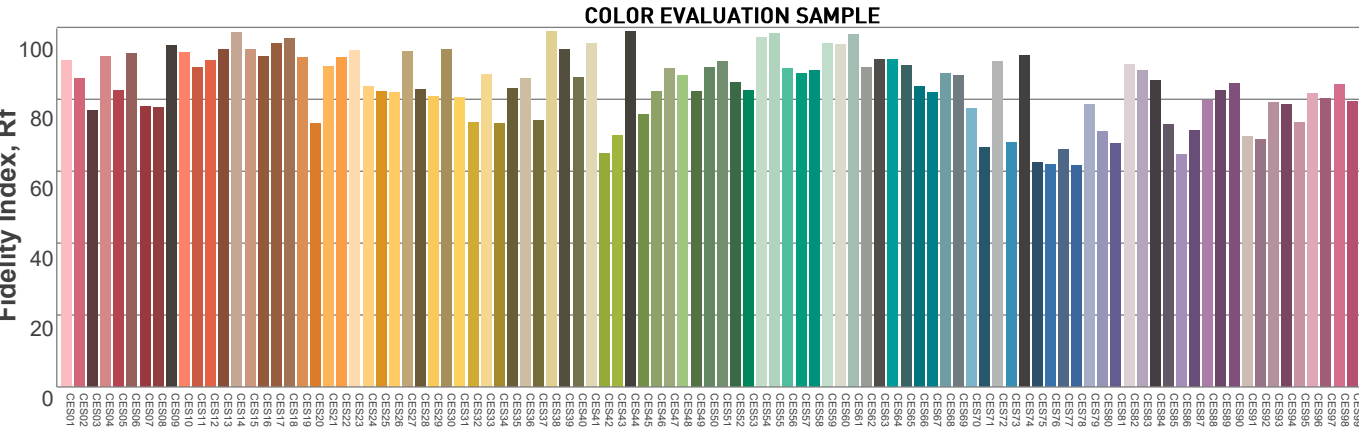
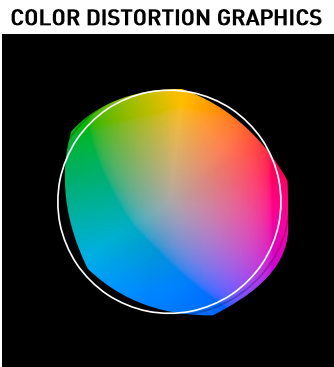
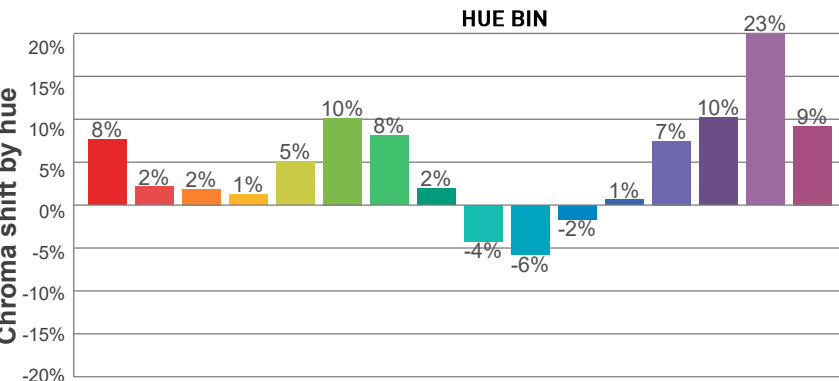
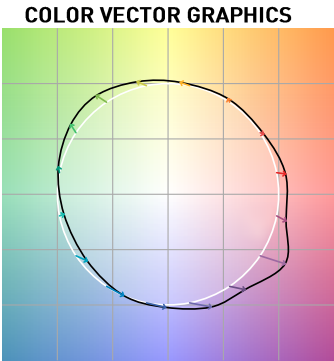
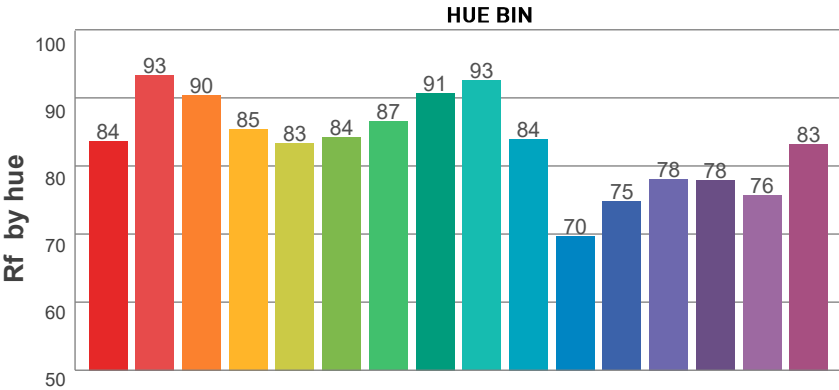
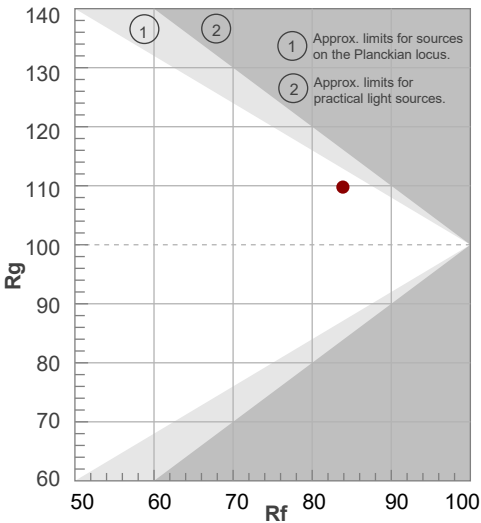
Rf 83,9

Fidelity index Rf

Rg 109,8

Gamut index Rg

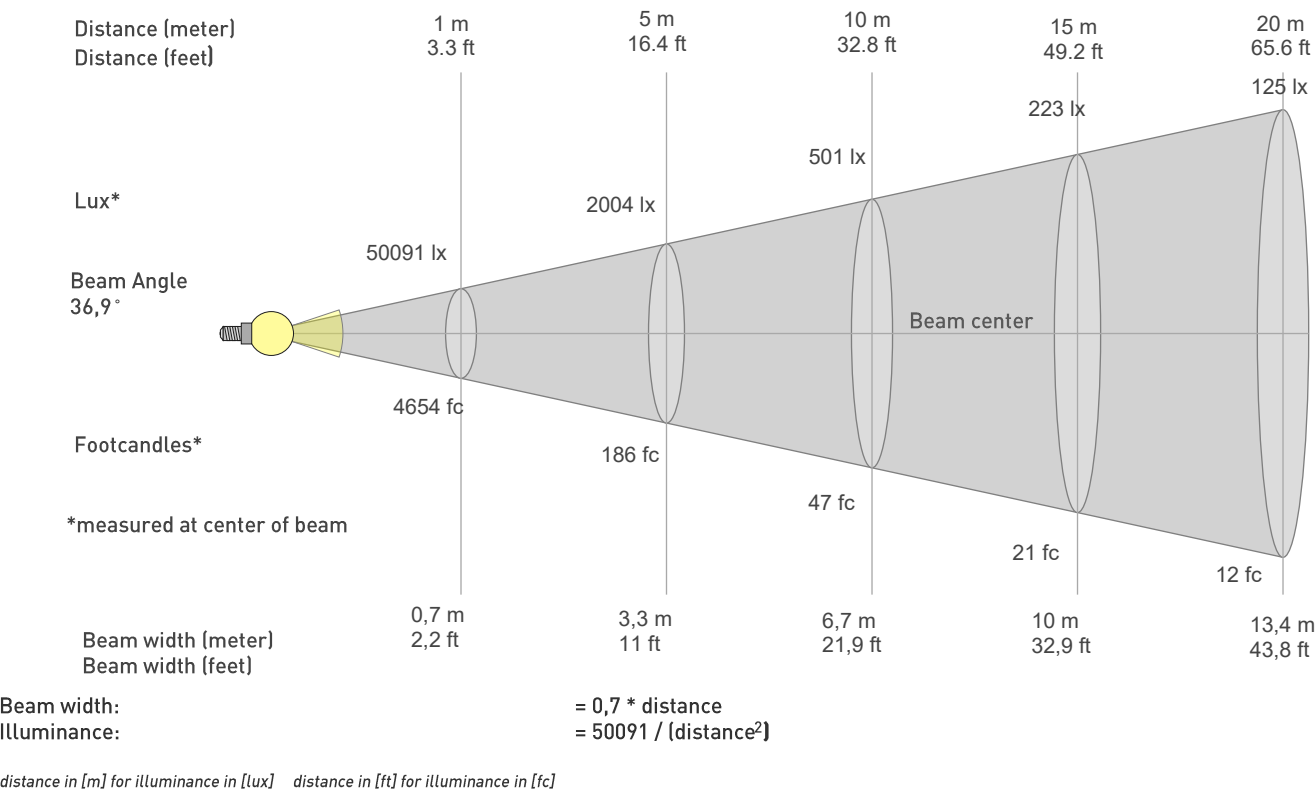
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	84	8%	-3%
2	93	2%	-3%
3	90	2%	3%
4	85	1%	9%
5	83	5%	7%
6	84	10%	4%
7	87	8%	-3%
8	91	2%	-5%
9	93	-4%	-1%
10	84	-6%	9%
11	70	-2%	17%
12	75	1%	18%
13	78	7%	18%
14	78	10%	10%
15	76	23%	7%
16	83	9%	-3%



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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
50091lx	12523lx	5566lx	3131lx	2004lx	1391lx	1022lx	783lx	618lx	501lx	414lx	348lx	296lx	256lx	223lx	196lx	173lx	155lx	139lx	125lx
4653,6fc	1163,4fc	517,1fc	290,8fc	186,1fc	129,3fc	95fc	72,7fc	57,5fc	46,5fc	38,5fc	32,3fc	27,5fc	23,7fc	20,7fc	18,2fc	16,1fc	14,4fc	12,9fc	11,6fc

