

# Photometric Report

MAC Aura Raven XIP – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

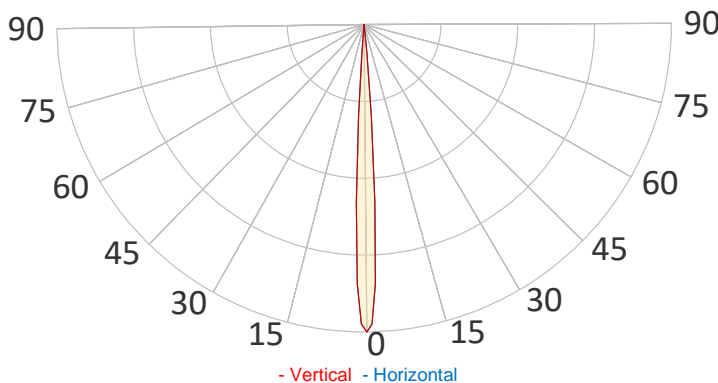
## GENERAL SPECIFICATIONS

Total Fixture Output:	27000 lm
Light Engine Output:	39000 lm
Efficacy:	26.5 lm/W
Lens Option:	None
Beam Angle (50%):	6,6 - 35,3°
Field Angle (10%):	9,9 - 51,0°
Cut-off Angle (3%):	11,2 - 58,4°
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

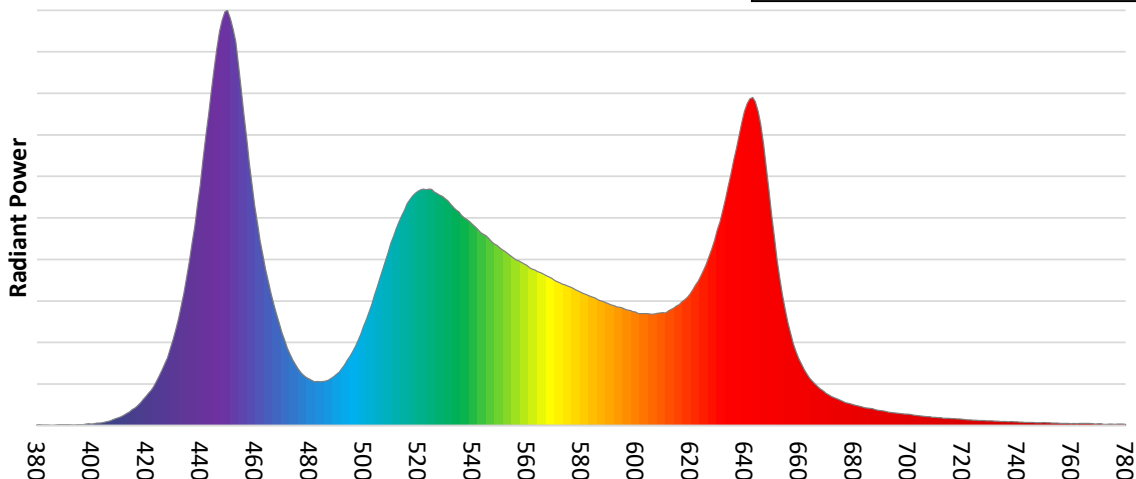


Catalog Number:	MAR-90250405HU
Measured Output:	22715 lm
Measured Peak:	1906724 cd
Consumed Power:	1020 W
Efficacy:	22.3 lm/W

Beam Angle (50%):	6,6°
Field Angle (10%):	9,9°
Cut-off Angle (3%):	11,5°

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

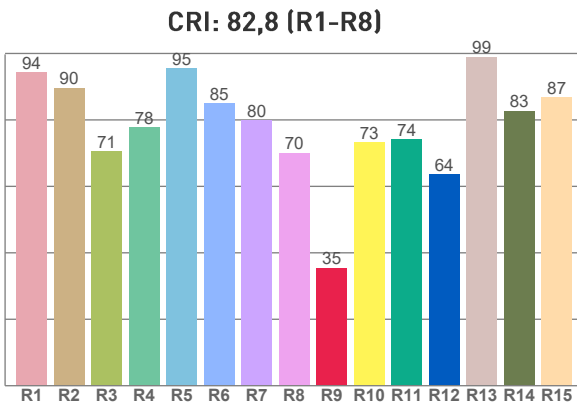
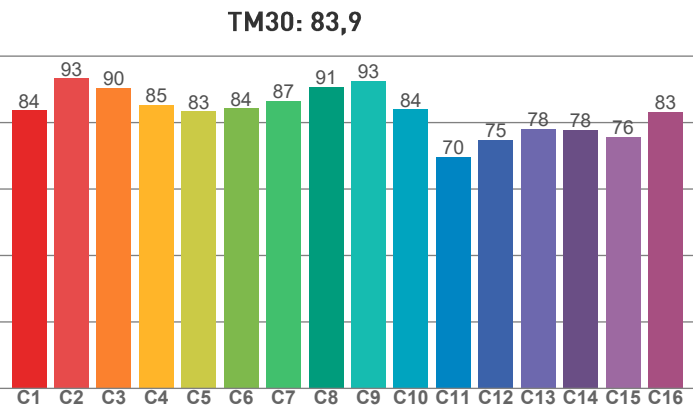
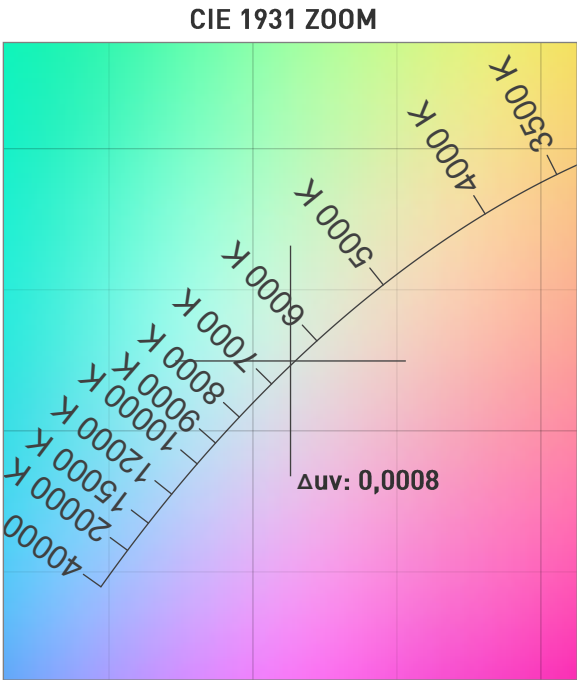
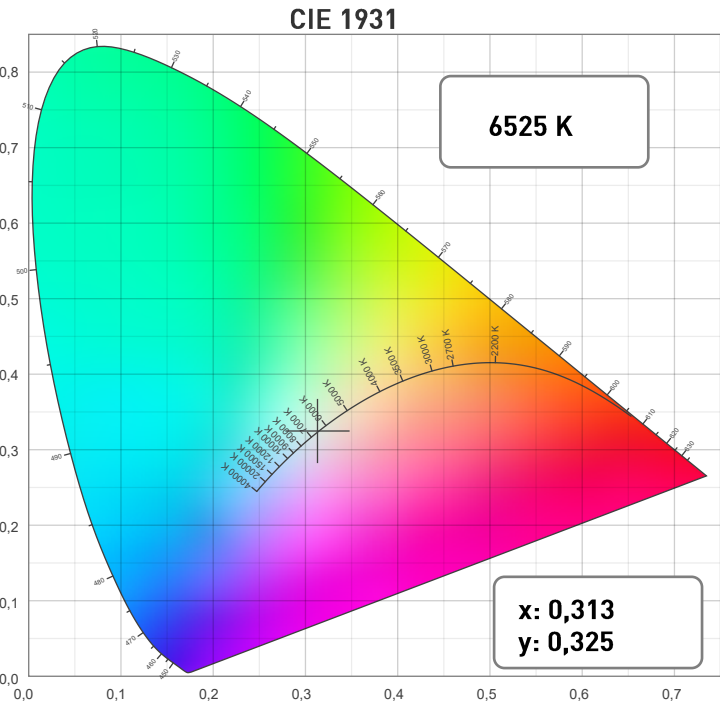
SPECTRAL DISTRIBUTION



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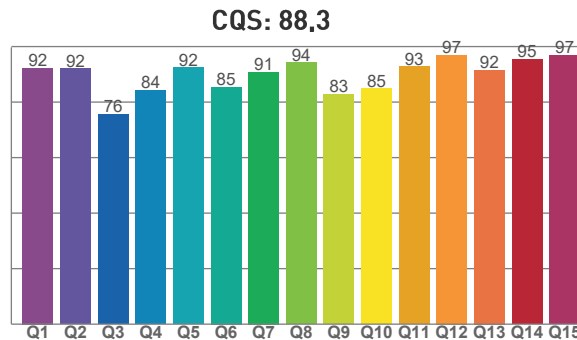
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## CHROMATICITY



## 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

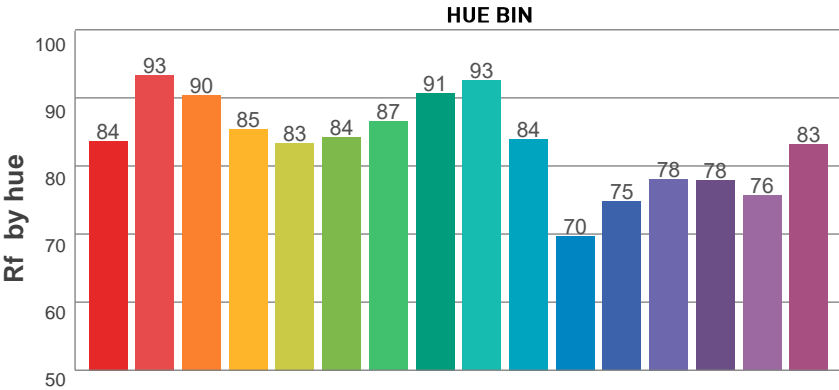
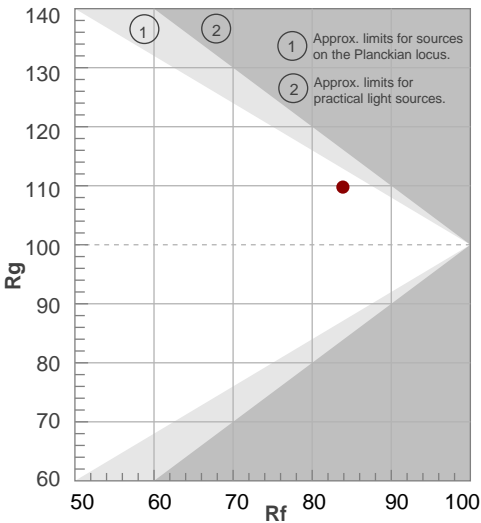
Rf 83,9

Fidelity index Rf

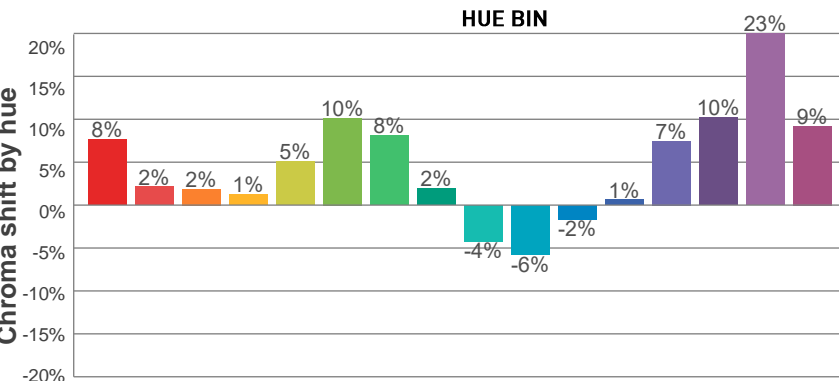
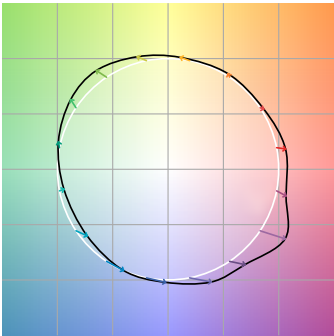
Rg 109,8

Gamut index Rg

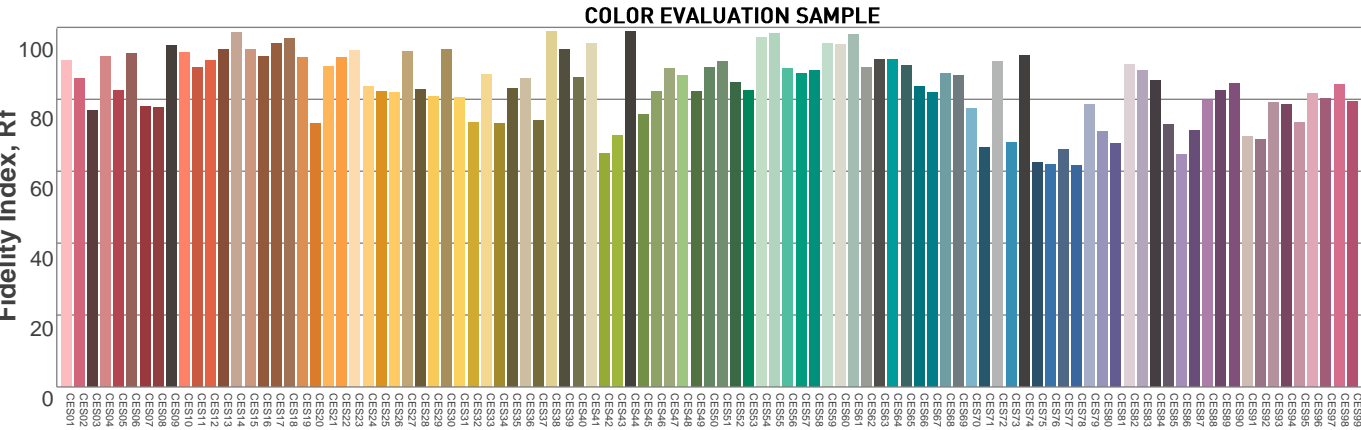
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	84	8%	-3%
2	93	2%	-3%
3	90	2%	3%
4	85	1%	9%
5	83	5%	7%
6	84	10%	4%
7	87	8%	-3%
8	91	2%	-5%
9	93	-4%	-1%
10	84	-6%	9%
11	70	-2%	17%
12	75	1%	18%
13	78	7%	18%
14	78	10%	10%
15	76	23%	7%
16	83	9%	-3%



COLOR VECTOR GRAPHICS



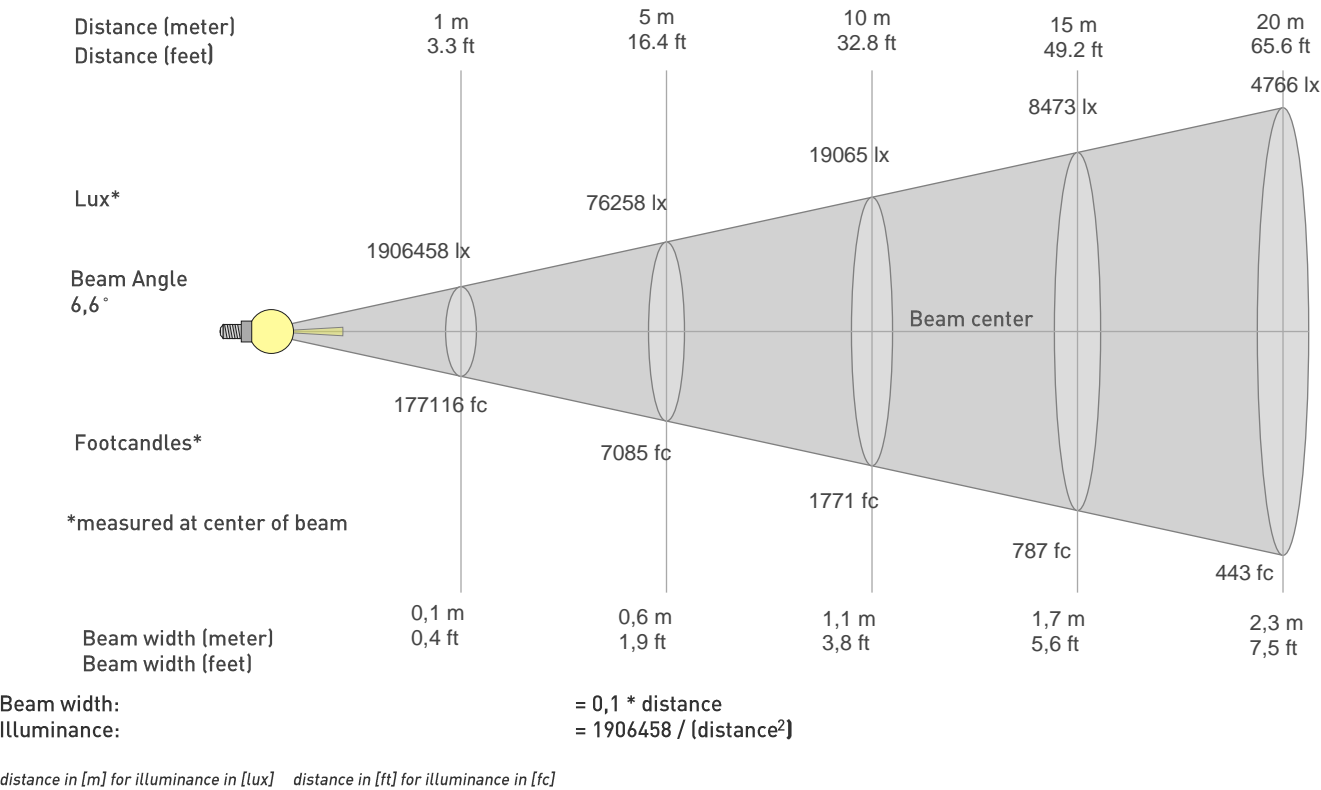
COLOR DISTORTION GRAPHICS



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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
1906458lx	476615lx	211829lx	119154lx	76258lx	52957lx	38907lx	29788lx	23537lx	19065lx	15756lx	13239lx	11281lx	9727lx	8473lx	7447lx	6597lx	5884lx	5281lx	4766lx
177115,8fc	44278,9fc	19679,5fc	11069,7fc	7084,6fc	4919,9fc	3614,6fc	2767,4fc	2186,6fc	1771,2fc	1463,8fc	1230fc	1048fc	903,7fc	787,2fc	691,9fc	612,9fc	546,7fc	490,6fc	442,8fc

