

Photometric Report

MAC Aura Raven XIP – Medium with Beam Shaper

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

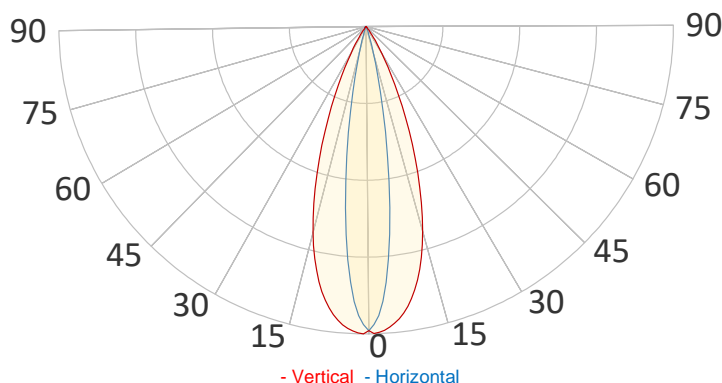
GENERAL SPECIFICATIONS

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

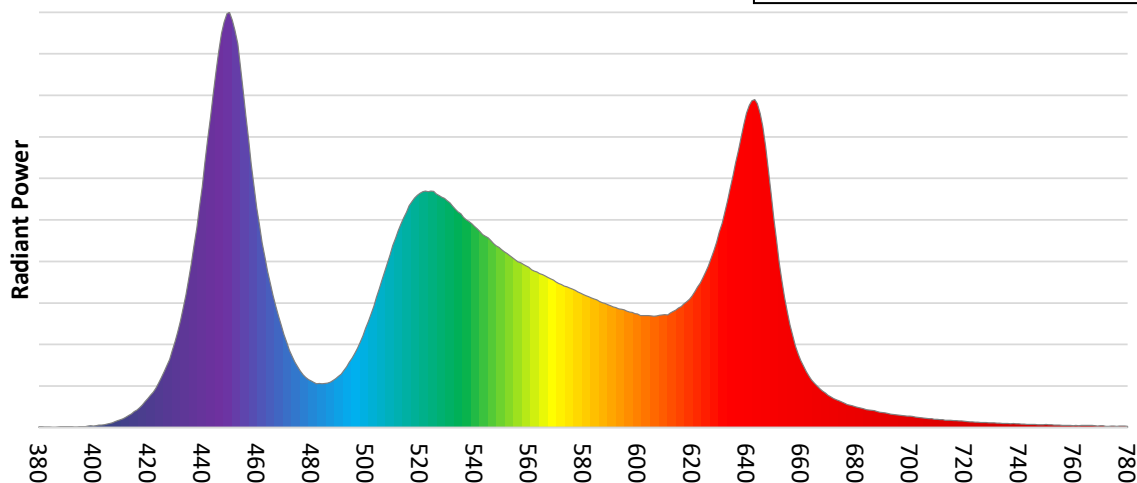


Catalog Number:	MAR-90250405HU
Measured Output:	23032 lm
Measured Peak:	104815 cd
Consumed Power:	1020 W
Efficacy:	22.6 lm/W

Beam Angle (50%):	16,4:38,2°
Field Angle (10%):	29,5:60,2°
Cut-off Angle (3%):	36,0:71,0°

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

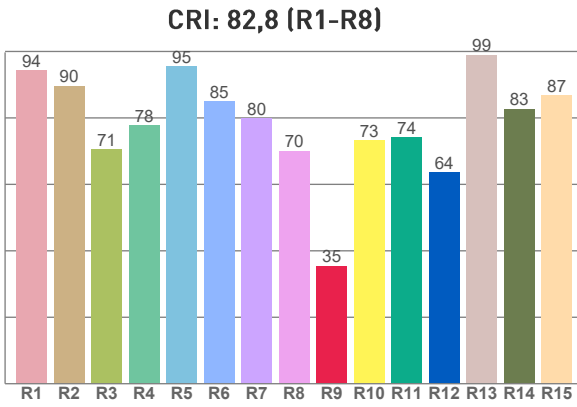
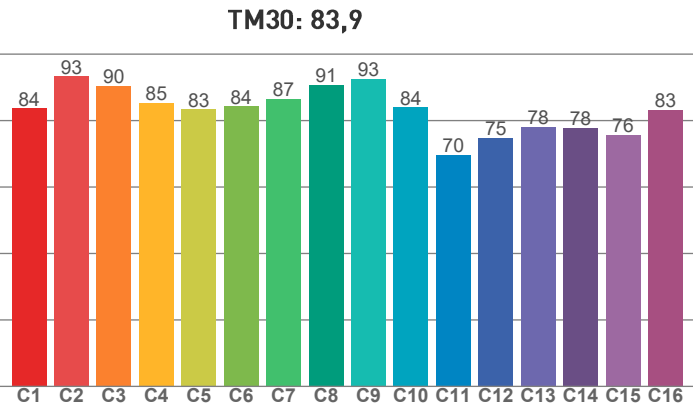
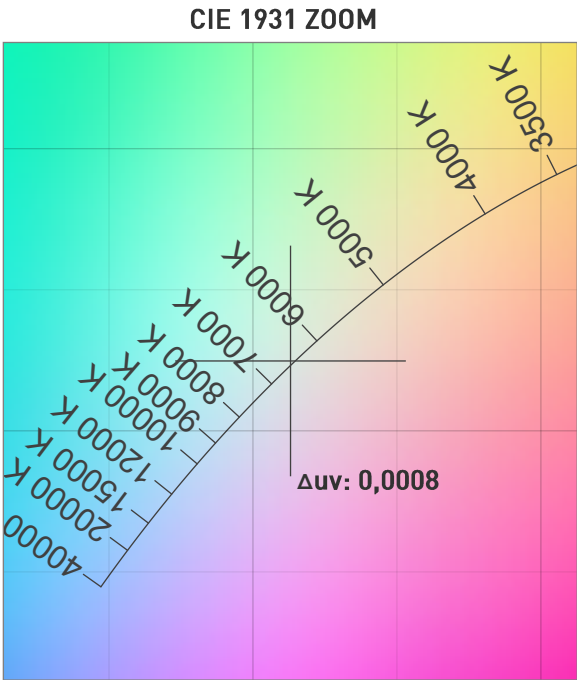
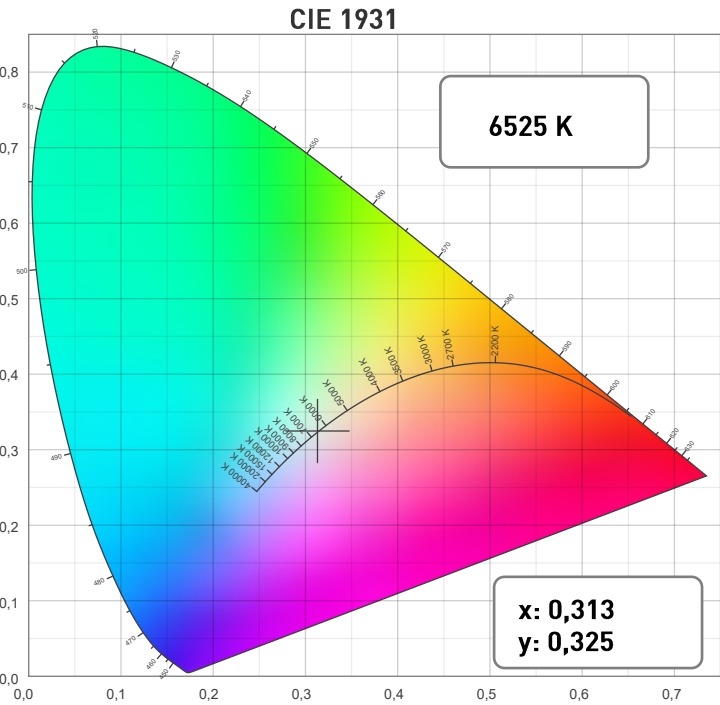
SPECTRAL DISTRIBUTION



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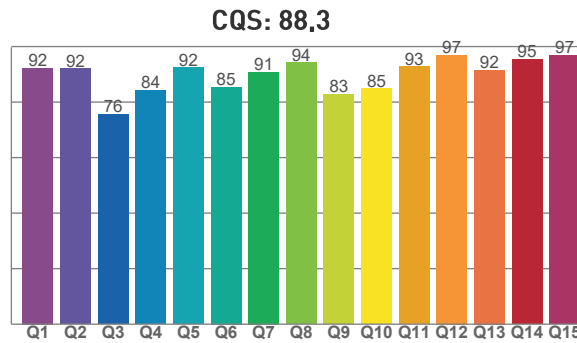
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CHROMATICITY



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	Δuv
84 (+/- 3)	88,3	0,313	0,325	0,200	0,311	0,0008

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TM30

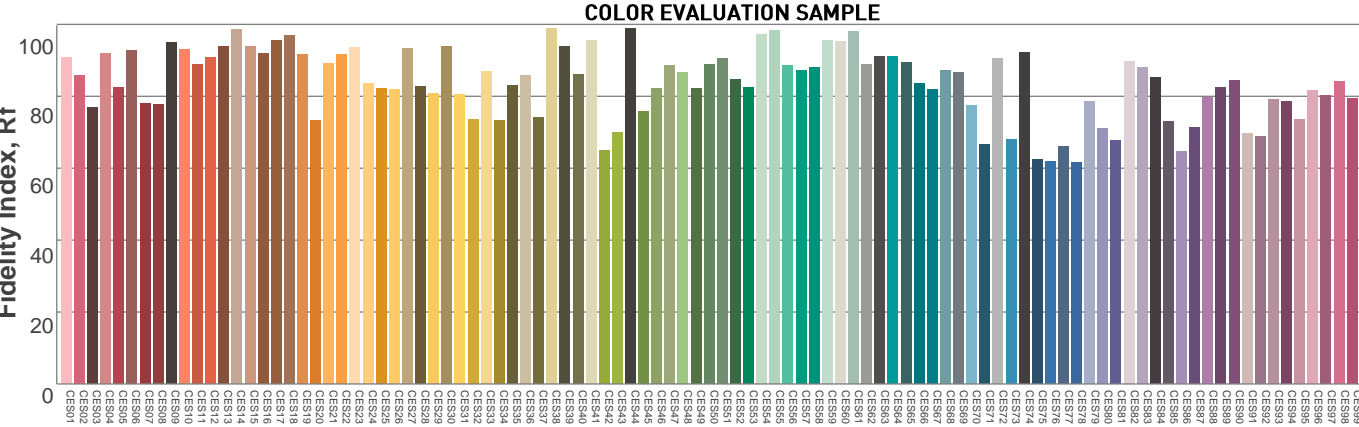
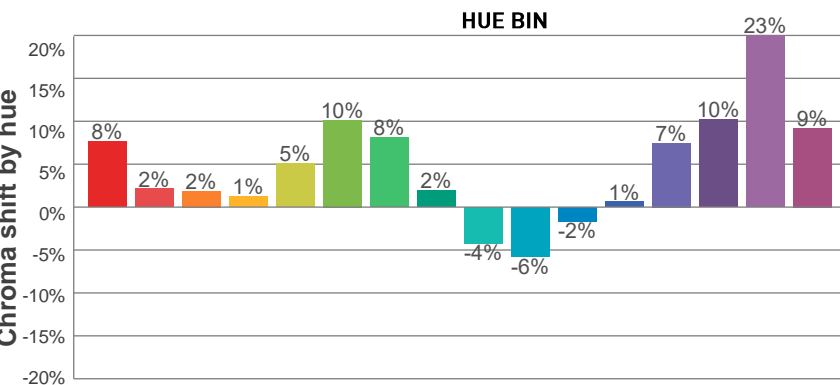
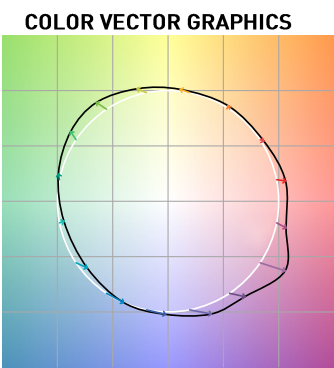
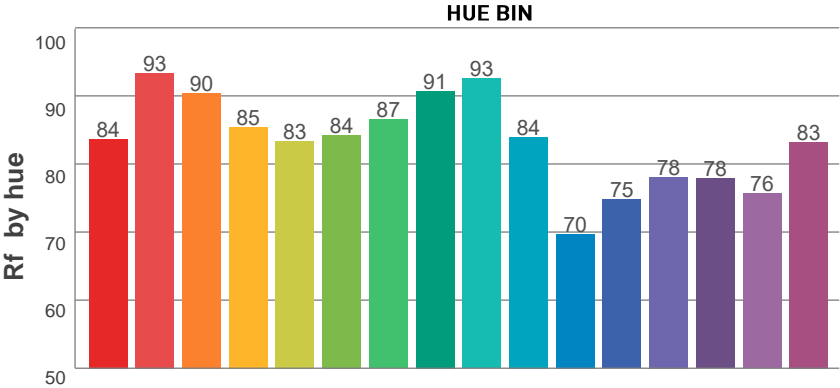
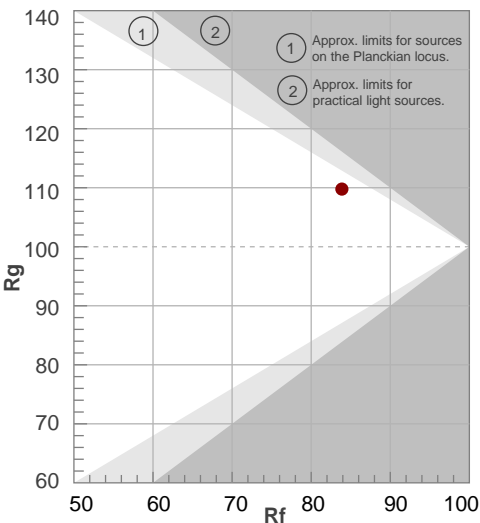
Rf 83,9

Fidelity index Rf

Rg 109,8

Gamut index Rg

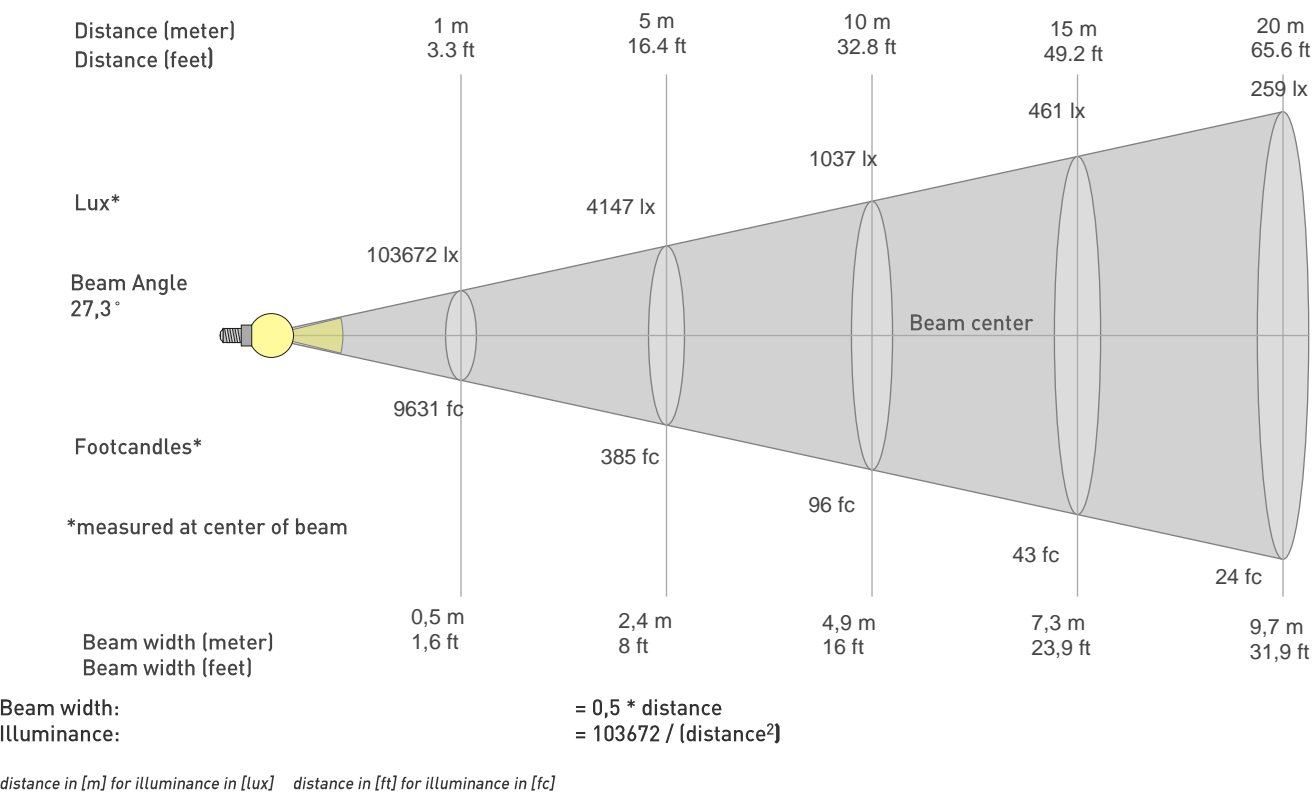
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	8%	-3%
2	93	2%	-3%
3	90	2%	3%
4	85	1%	9%
5	83	5%	7%
6	84	10%	4%
7	87	8%	-3%
8	91	2%	-5%
9	93	-4%	-1%
10	84	-6%	9%
11	70	-2%	17%
12	75	1%	18%
13	78	7%	18%
14	78	10%	10%
15	76	23%	7%
16	83	9%	-3%



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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
103672lx	25918lx	11519lx	6479lx	4147lx	2880lx	2116lx	1620lx	1280lx	1037lx	857lx	720lx	613lx	529lx	461lx	405lx	359lx	320lx	287lx	259lx
9631,4fc	2407,9fc	1070,2fc	602fc	385,3fc	267,5fc	196,6fc	150,5fc	118,9fc	96,3fc	79,6fc	66,9fc	57fc	49,1fc	42,8fc	37,6fc	33,3fc	29,7fc	26,7fc	24,1fc

