

Photometric Report

MAC Aura Raven XIP – Narrow with Beam Shaper

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

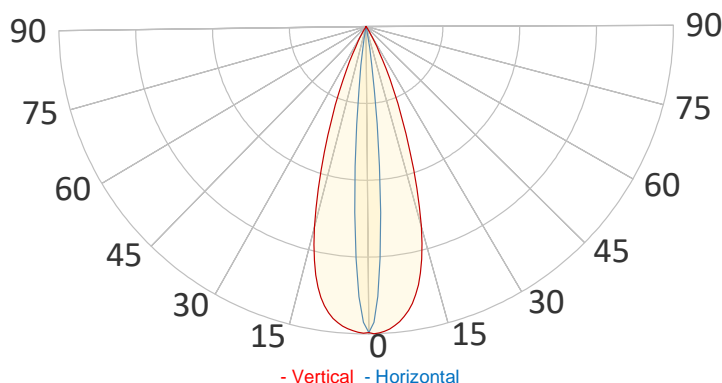
GENERAL SPECIFICATIONS

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

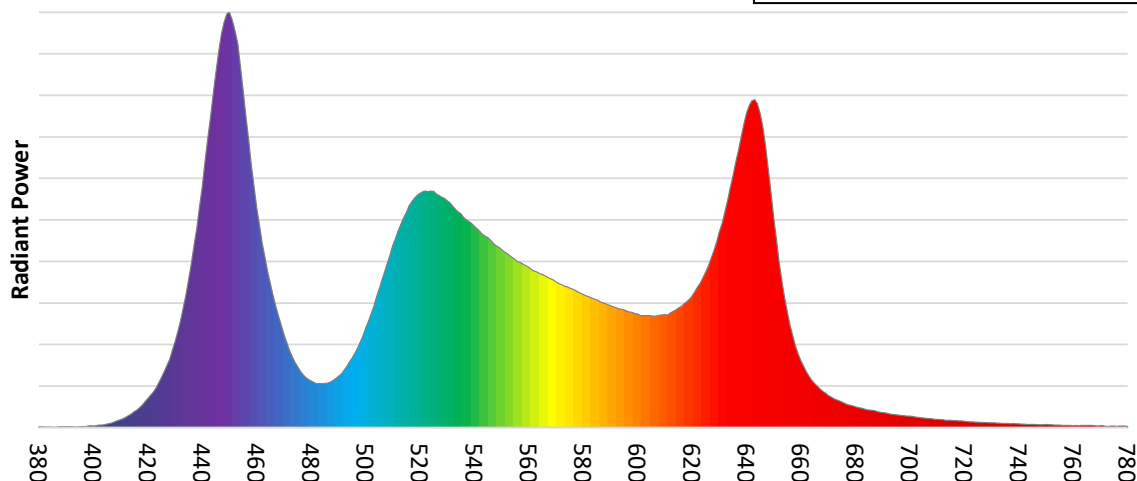


Catalog Number:	MAR-90250405HU
Measured Output:	20416 lm
Measured Peak:	168794 cd
Consumed Power:	1020 W
Efficacy:	20.0 lm/W

Beam Angle (50%):	9,4:35,6°
Field Angle (10%):	16,9:53,7°
Cut-off Angle (3%):	20,9:62,0°

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

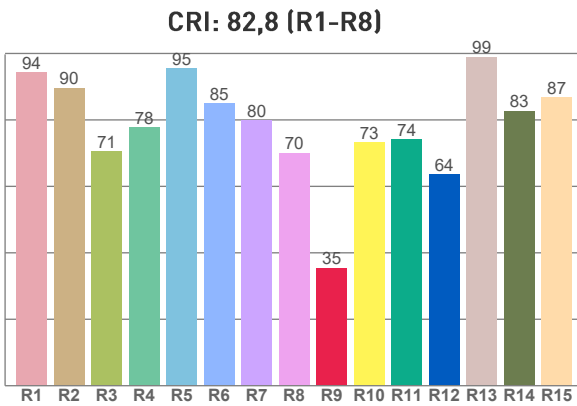
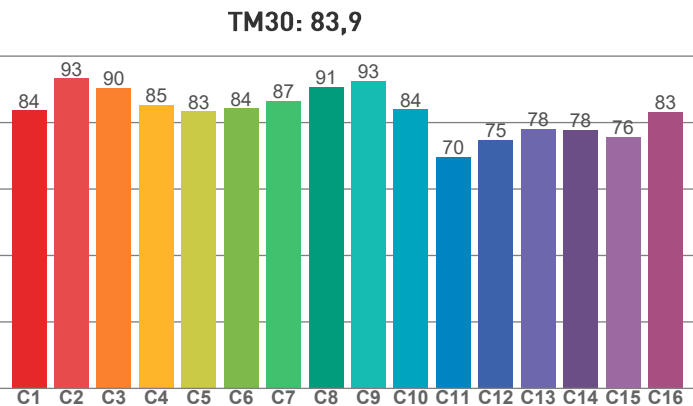
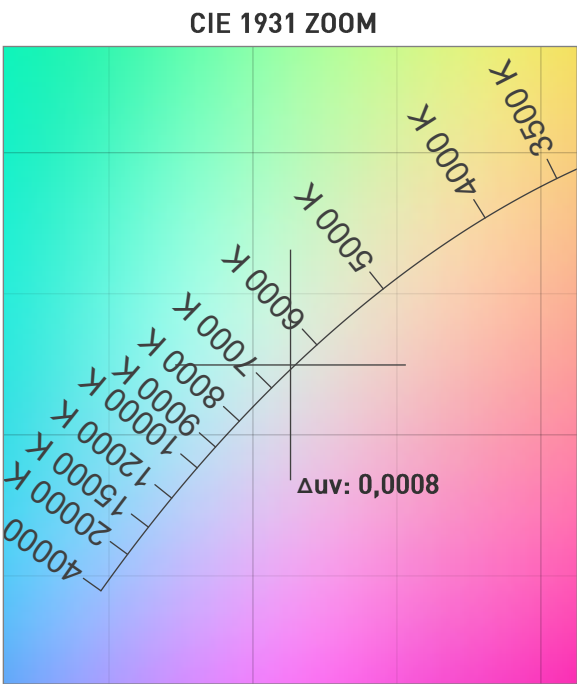
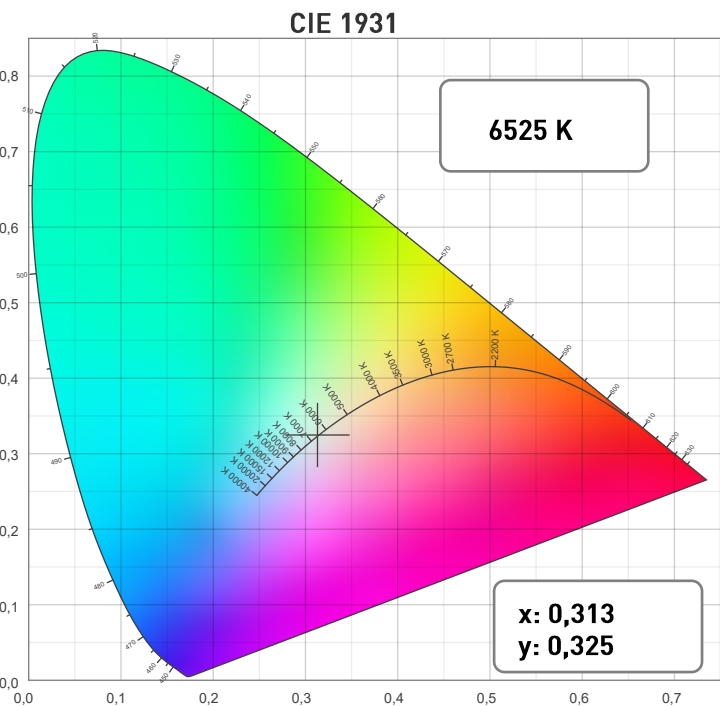
SPECTRAL DISTRIBUTION



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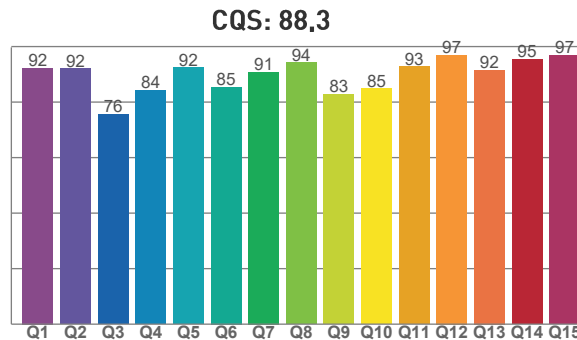
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CHROMATICITY



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

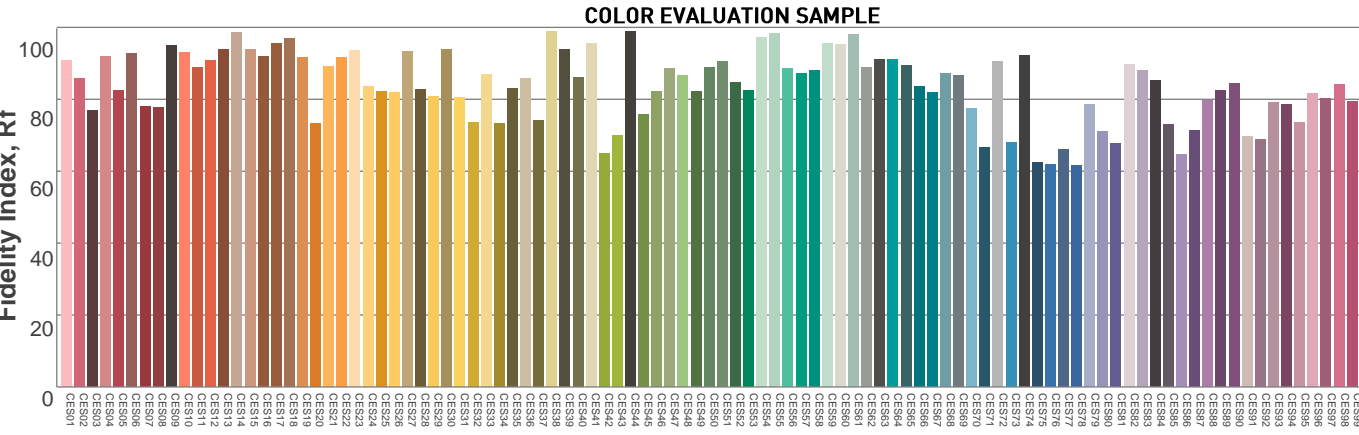
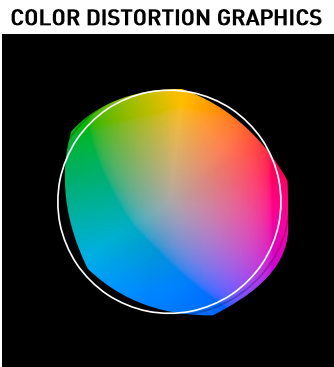
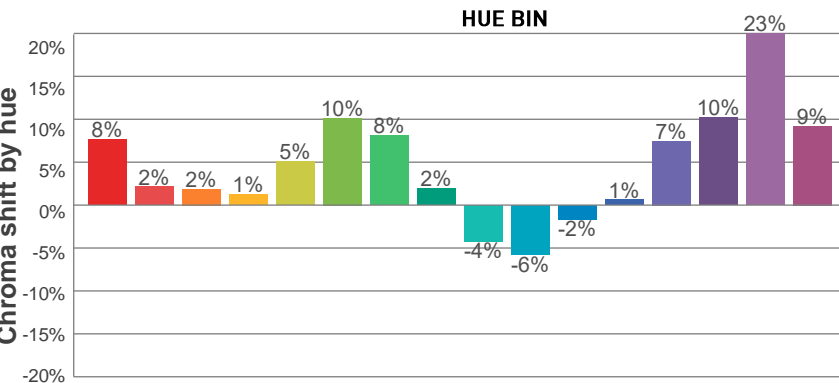
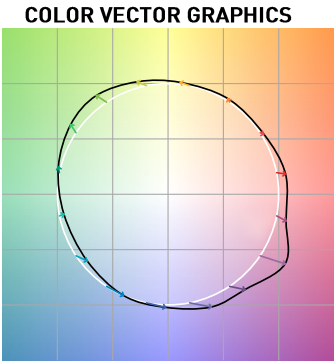
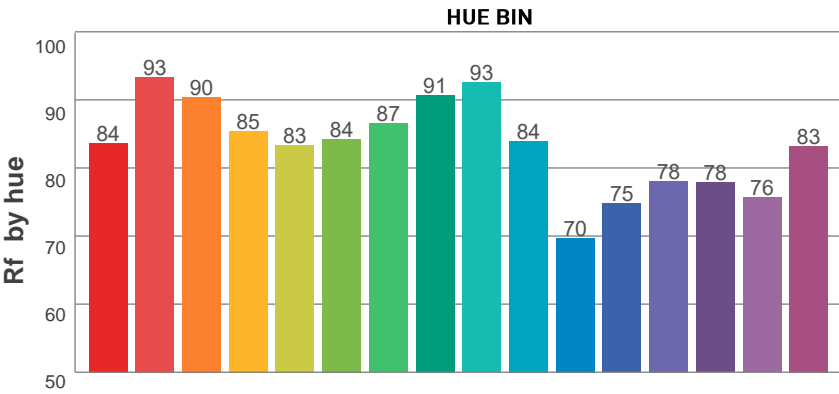
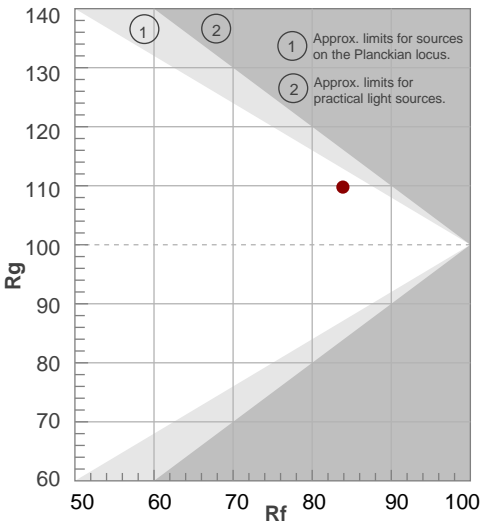
Rf 83,9

Fidelity index Rf

Rg 109,8

Gamut index Rg

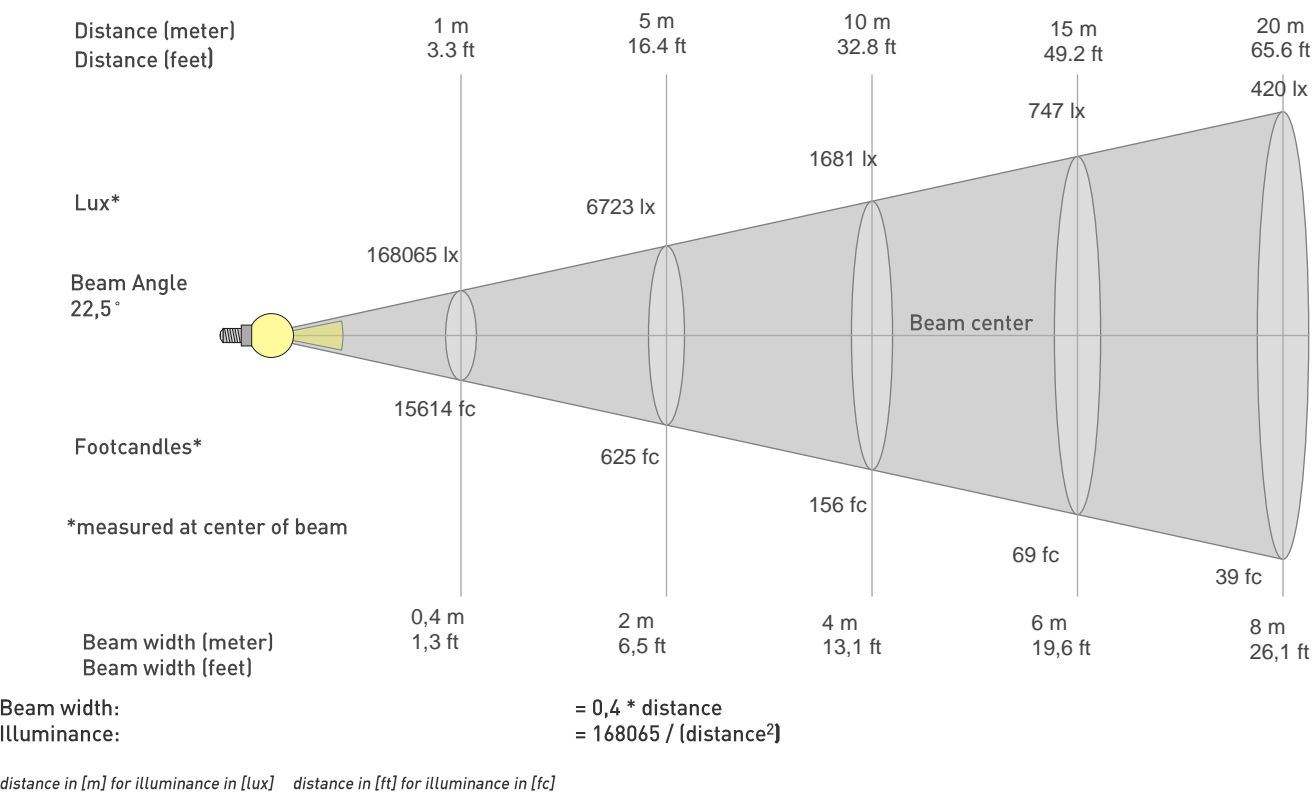
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	8%	-3%
2	93	2%	-3%
3	90	2%	3%
4	85	1%	9%
5	83	5%	7%
6	84	10%	4%
7	87	8%	-3%
8	91	2%	-5%
9	93	-4%	-1%
10	84	-6%	9%
11	70	-2%	17%
12	75	1%	18%
13	78	7%	18%
14	78	10%	10%
15	76	23%	7%
16	83	9%	-3%



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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
168065lx	42016lx	18674lx	10504lx	6723lx	4668lx	3430lx	2626lx	2075lx	1681lx	1389lx	1167lx	994lx	857lx	747lx	657lx	582lx	519lx	466lx	420lx
15613,8fc	3903,4fc	1734,9fc	975,9fc	624,6fc	433,7fc	318,6fc	244fc	192,8fc	156,1fc	129fc	108,4fc	92,4fc	79,7fc	69,4fc	61fc	54fc	48,2fc	43,3fc	39fc

