

Photometric Report

MAC Aura Raven XIP – Narrow with Soft Lens

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

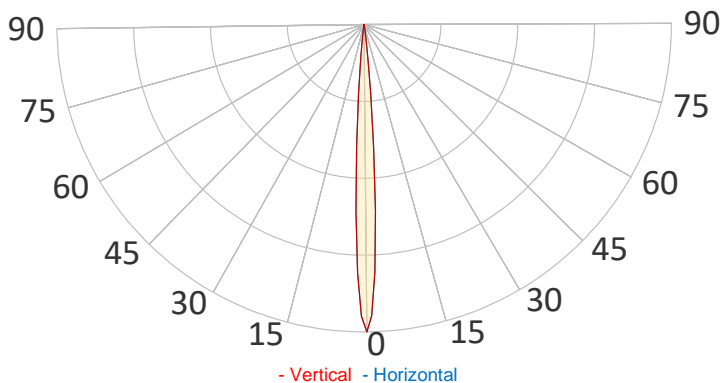
GENERAL SPECIFICATIONS

Total Fixture Output:	25000 lm
Light Engine Output:	39000 lm
Efficacy:	24.5 lm/W
Lens Option:	Soft Lens
Beam Angle (50%):	7,0 - 34,2°
Field Angle (10%):	12,2 - 51,8°
Cut-off Angle (3%):	14,8 - 62,7°
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

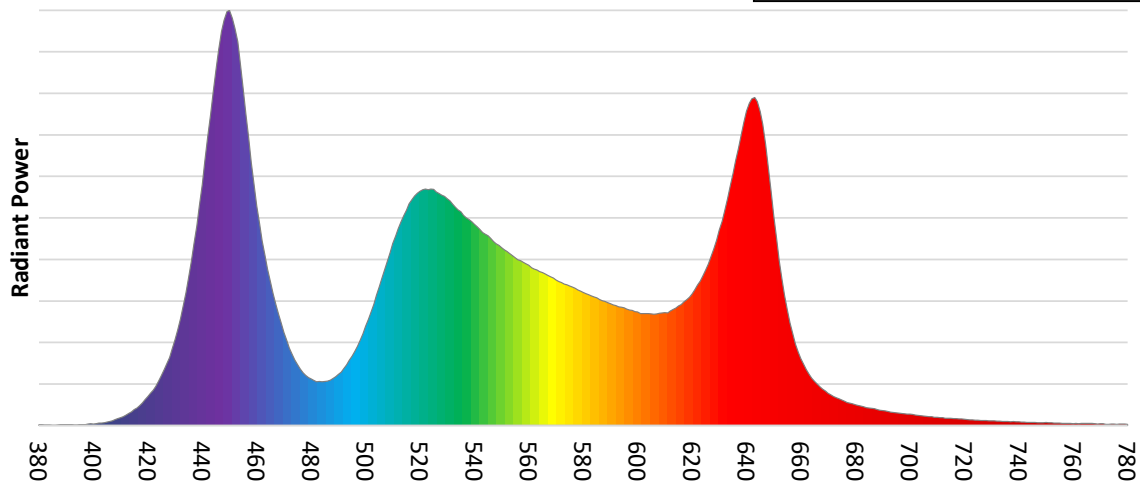


Catalog Number:	MAR-90250405HU
Measured Output:	20429 lm
Measured Peak:	1285045 cd
Consumed Power:	1020 W
Efficacy:	20.0 lm/W

Beam Angle (50%):	7°
Field Angle (10%):	12,2°
Cut-off Angle (3%):	15,1°

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

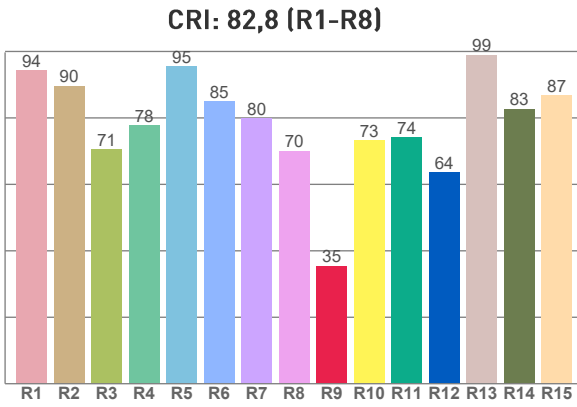
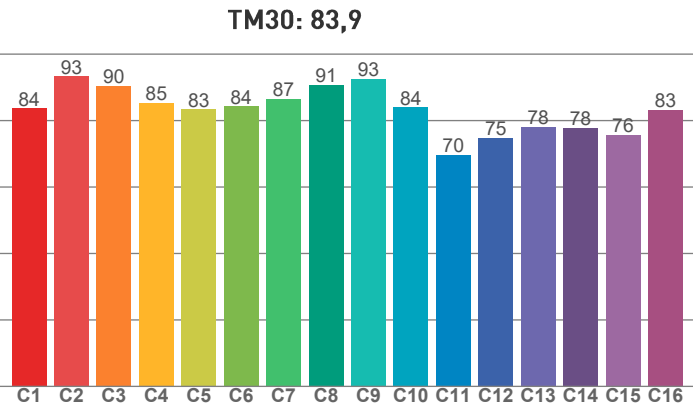
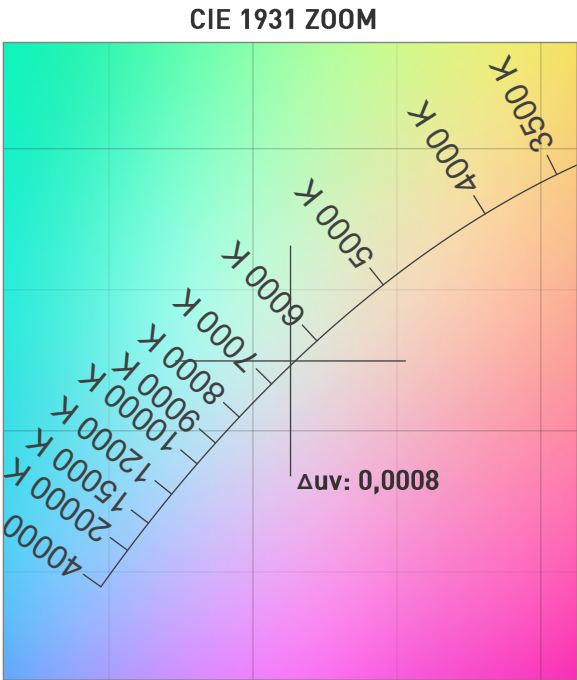
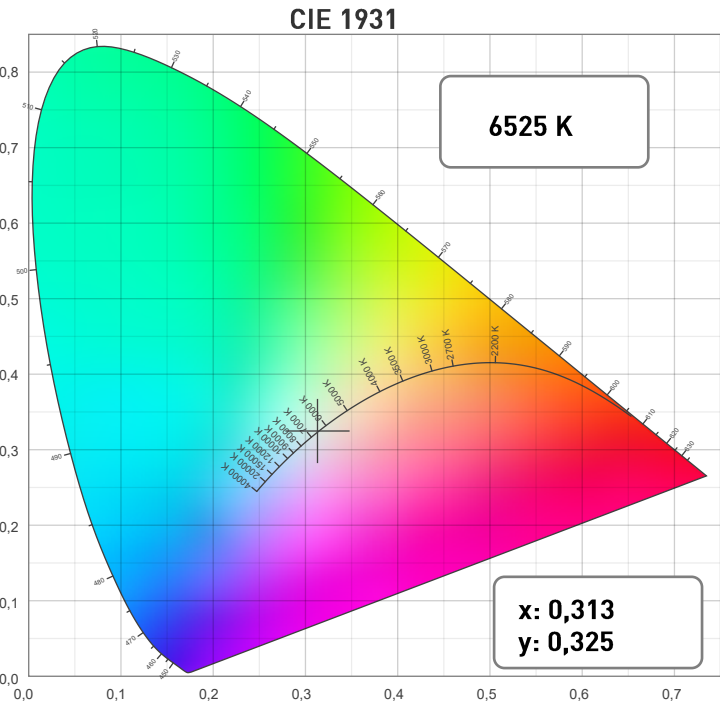
SPECTRAL DISTRIBUTION



Photometric Report

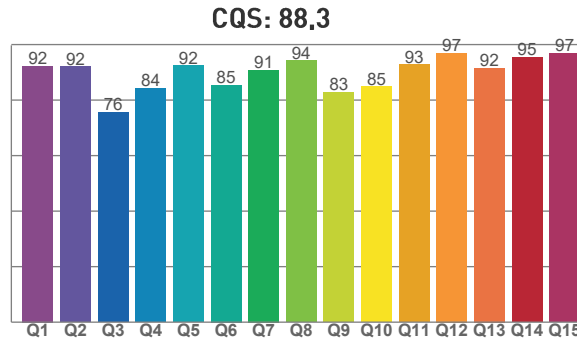
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CHROMATICITY



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

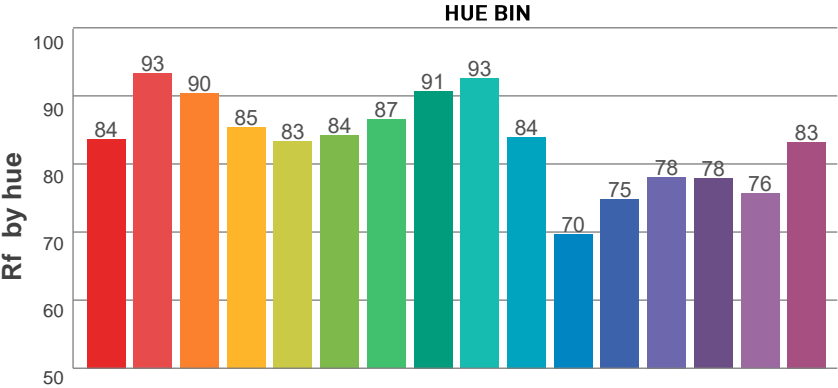
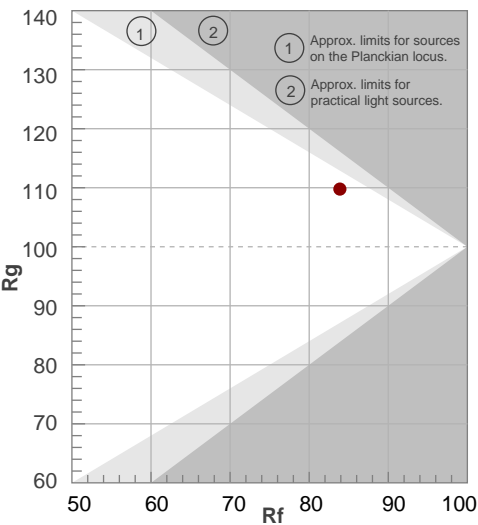
Rf 83,9

Fidelity index Rf

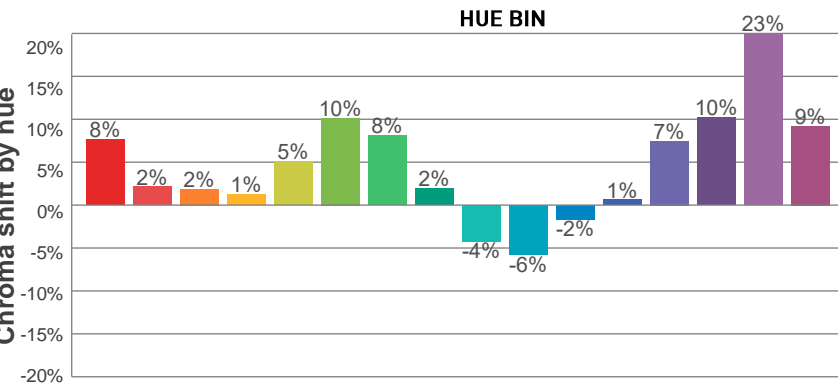
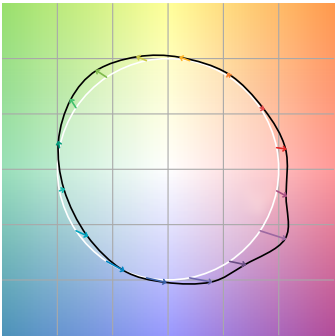
Rg 109,8

Gamut index Rg

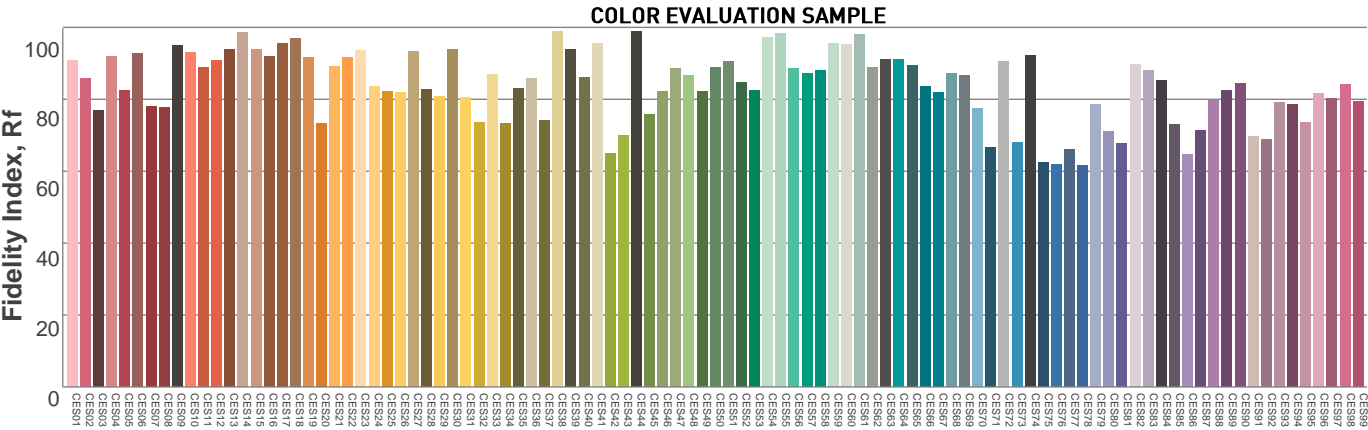
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	8%	-3%
2	93	2%	-3%
3	90	2%	3%
4	85	1%	9%
5	83	5%	7%
6	84	10%	4%
7	87	8%	-3%
8	91	2%	-5%
9	93	-4%	-1%
10	84	-6%	9%
11	70	-2%	17%
12	75	1%	18%
13	78	7%	18%
14	78	10%	10%
15	76	23%	7%
16	83	9%	-3%



COLOR VECTOR GRAPHICS



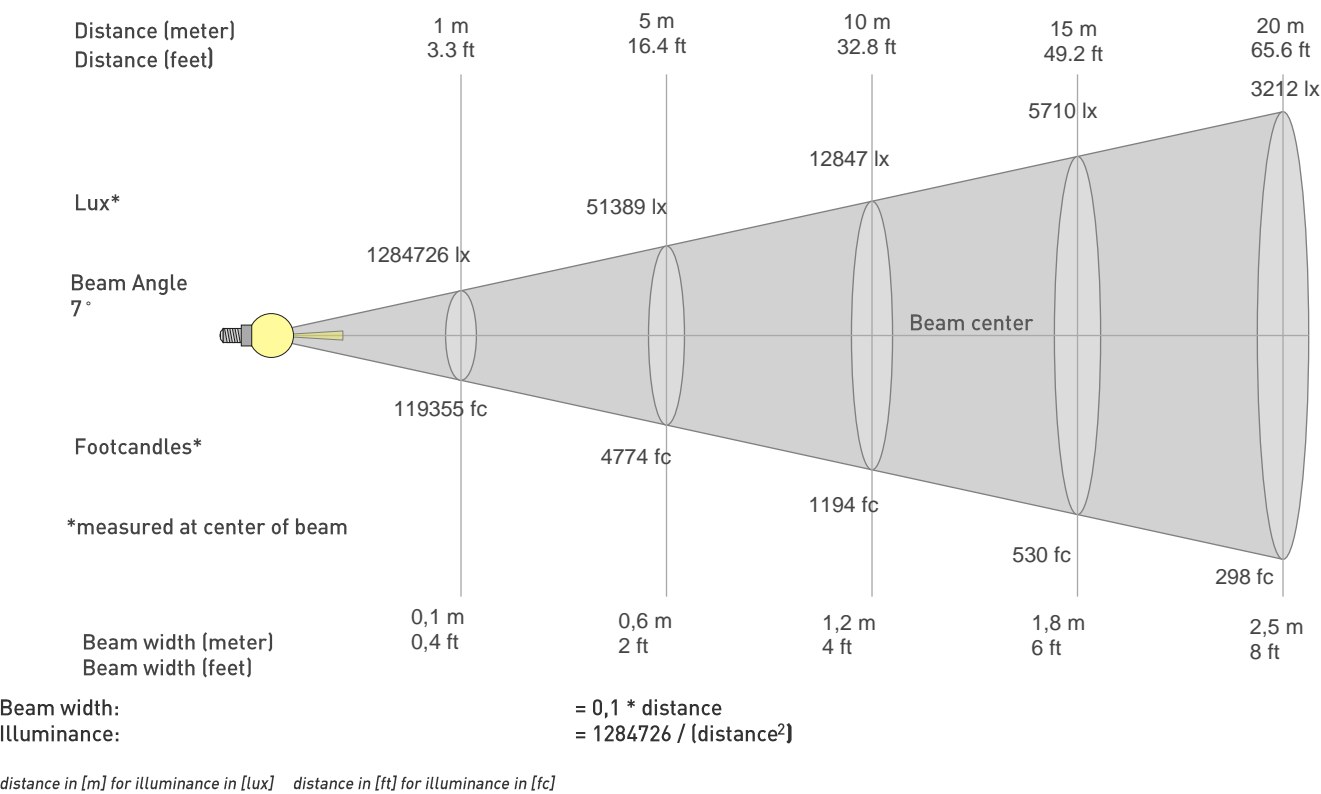
COLOR DISTORTION GRAPHICS



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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
1284726lx	321182lx	142747lx	80295lx	51389lx	35687lx	26219lx	20074lx	15861lx	12847lx	10618lx	8922lx	7602lx	6555lx	5710lx	5018lx	4445lx	3965lx	3559lx	3212lx
119355fc	29838,7fc	13261,7fc	7459,7fc	4774,2fc	3315,4fc	2435,8fc	1864,9fc	1473,5fc	1193,5fc	986,4fc	828,9fc	706,2fc	609fc	530,5fc	466,2fc	413fc	368,4fc	330,6fc	298,4fc

