Photometric Report

MAC Viper XIP – 10 Degree

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

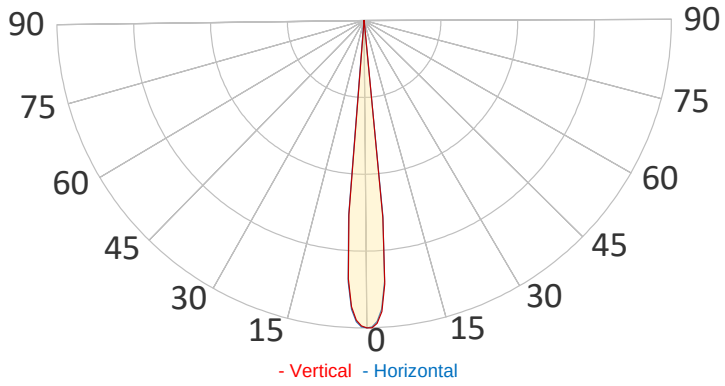
GENERAL SPECIFICATIONS

Total Fixture Output:	28000 lm
Light Engine Output:	56000 lm
Efficacy:	29,5 lm/W
Lens Option:	N/A
Beam Angle (50%):	5,1 - 49,3°
Field Angle (10%):	5,7 - 51,0°
Cut-off Angle (3%):	5,9 - 51,3°
CRI:	68 (+/- 3)
CQS:	65 (+/- 3)
TM-30 Rf:	66 (+/- 3)
TM-30 Rg:	94 (+/- 3)
TLCI:	44 (+/- 3)
Color Temperature:	5800 K (+/- 250 K)



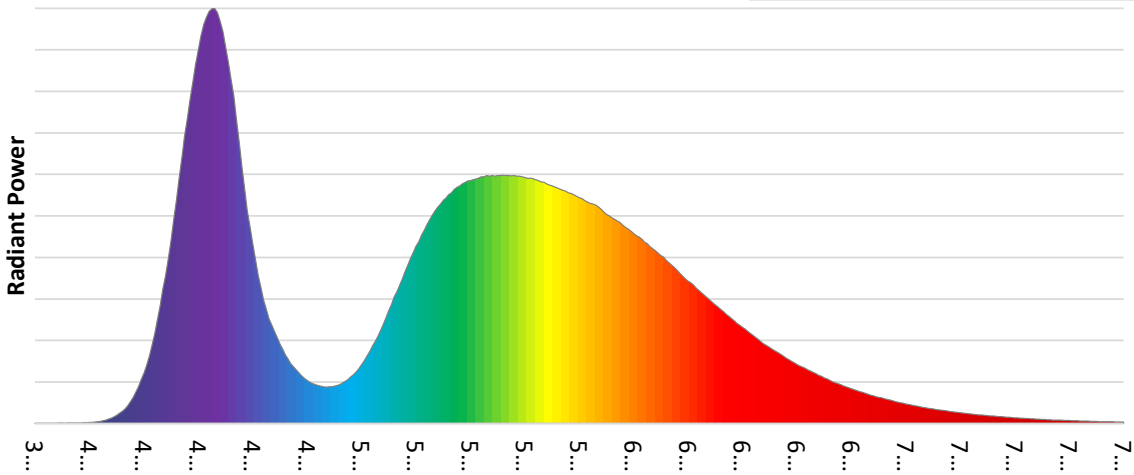
SAMPLE MEASUREMENT

POLAR PLOT



Catalog Number:	MAR-90250300HU
Measured Output:	24730 lm
Measured Peak:	1006232 cd
Consumed Power:	900 W
Efficacy:	27,5 lm/W
Beam Angle (50%):	10,6°
Field Angle (10%):	11,7°
Cut-off Angle (3%):	11,9°
Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz
Fan Mode:	Constant Fan Full
Fixture Warm-up Time:	30 minutes

SPECTRAL DISTRIBUTION



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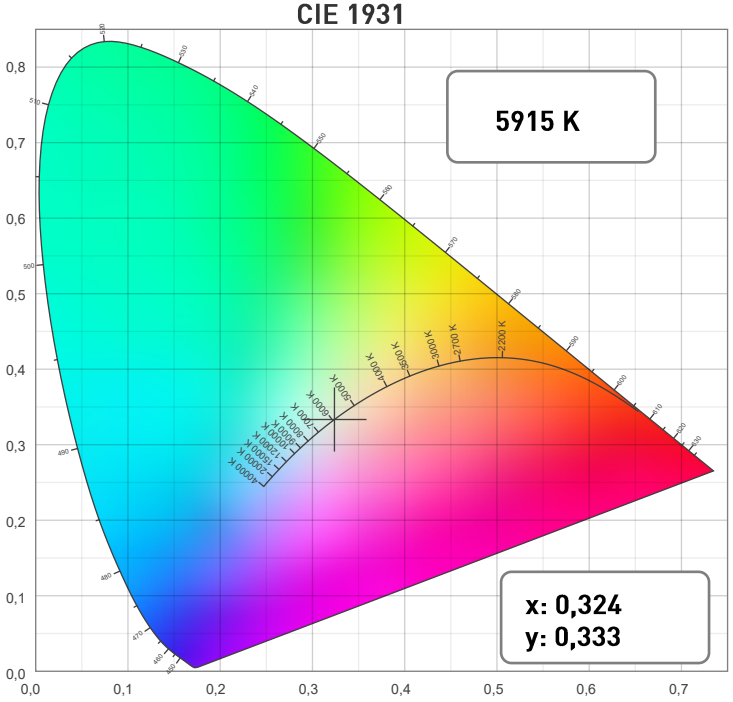
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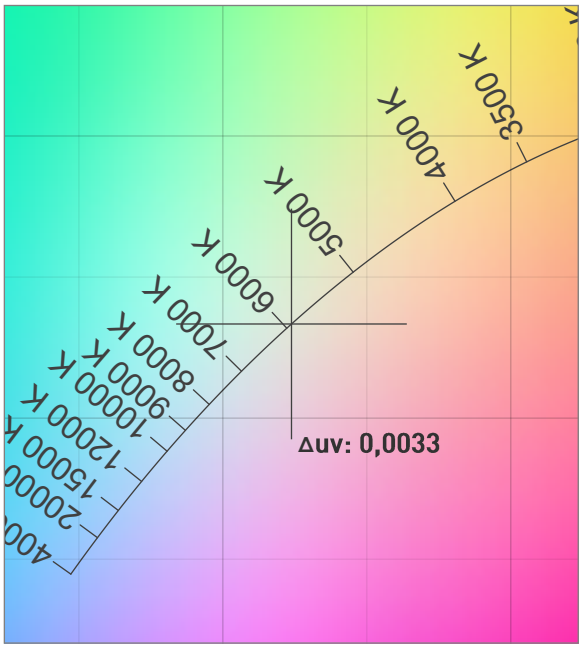
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CHROMATICITY

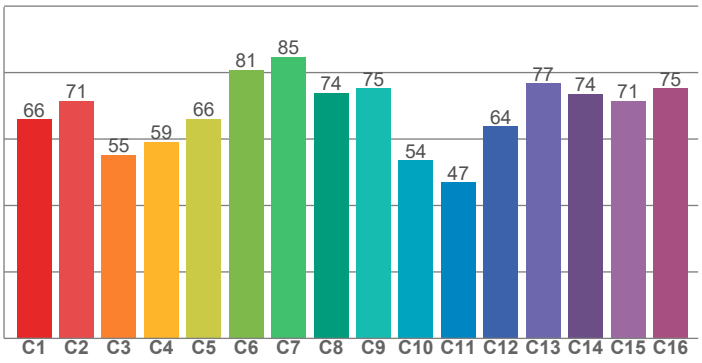
CIE 1931



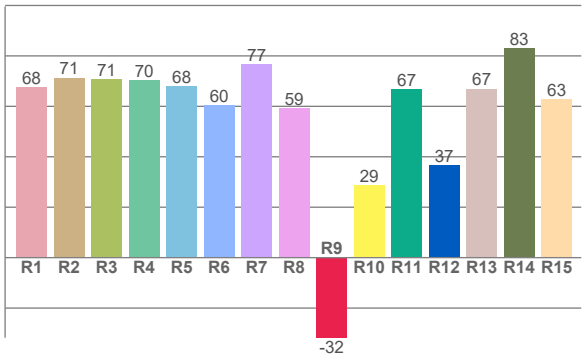
CIE 1931 ZOOM



TM30: 67,5



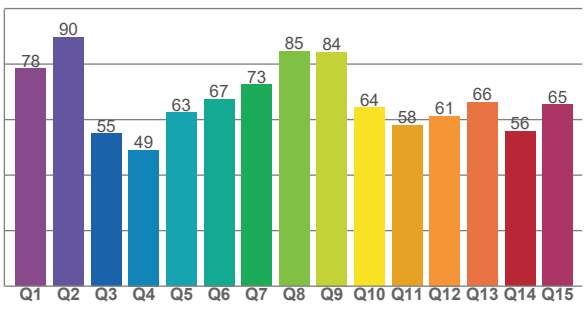
CRI: 68,0 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5915 K	68,0	-31,7	67,5	94,6

CQS: 65,6



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
41	65,6	0,324	0,333	0,204	0,315	0,0033

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TM30

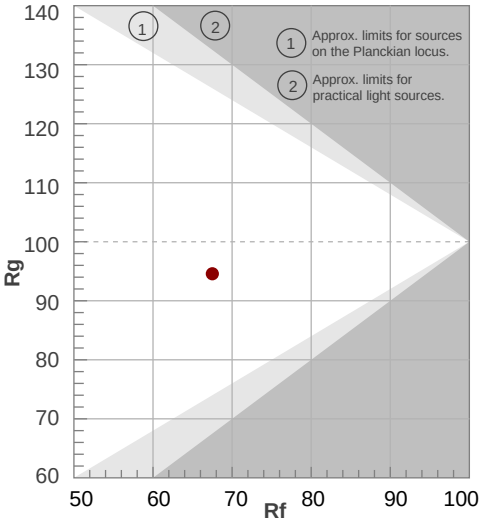
Rf 67,5

Fidelity index Rf

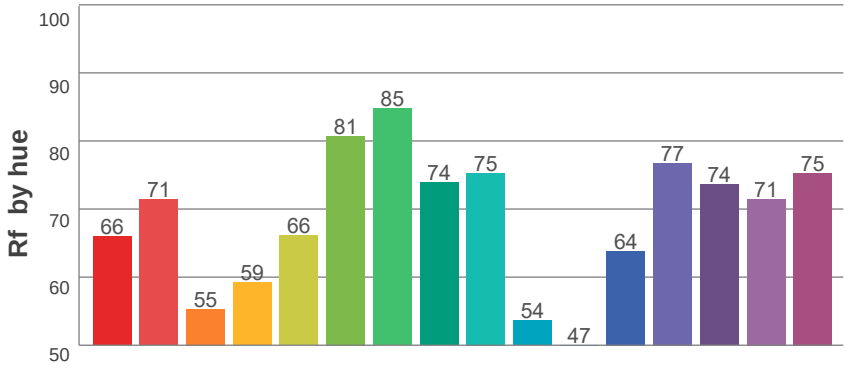
Rg 94,6

Gamut index Rg

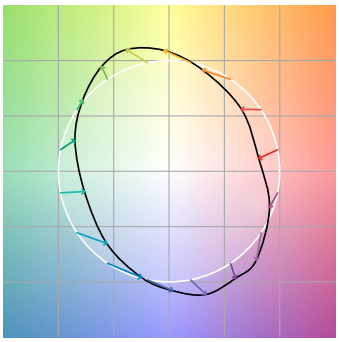
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	66	-18%	-4%
2	71	-14%	10%
3	55	-7%	25%
4	59	6%	25%
5	66	15%	16%
6	81	13%	-2%
7	85	1%	-10%
8	74	-11%	-11%
9	75	-21%	3%
10	54	-17%	23%
11	47	-6%	33%
12	64	5%	24%
13	77	16%	11%
14	74	14%	-4%
15	71	10%	-23%
16	75	-5%	-14%



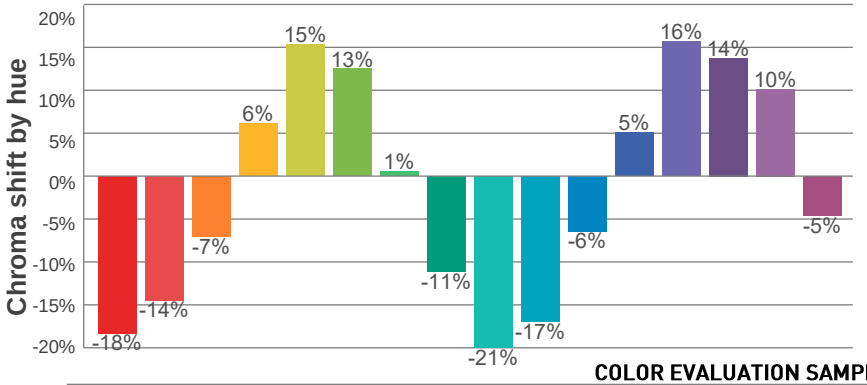
HUE BIN



COLOR VECTOR GRAPHICS



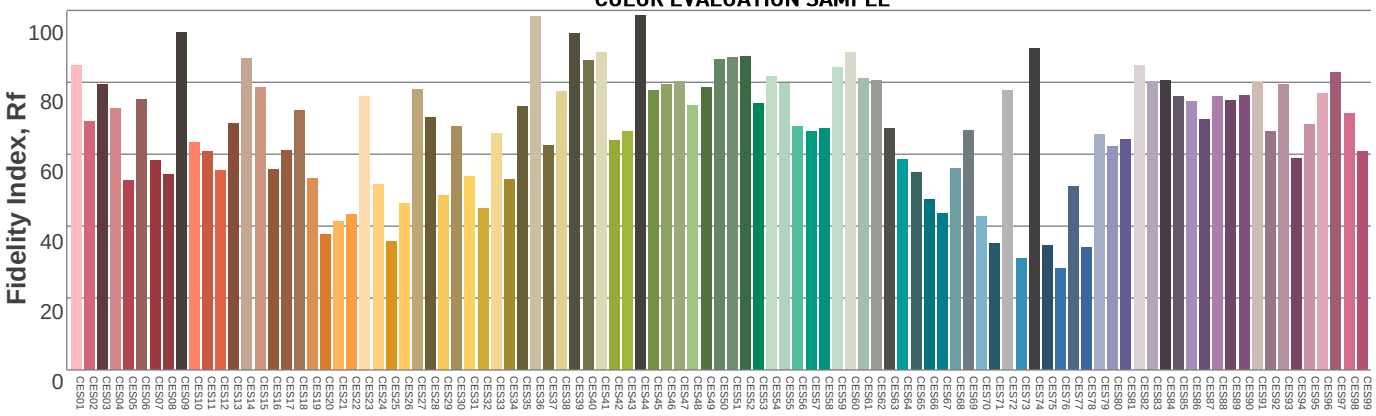
HUE BIN



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE



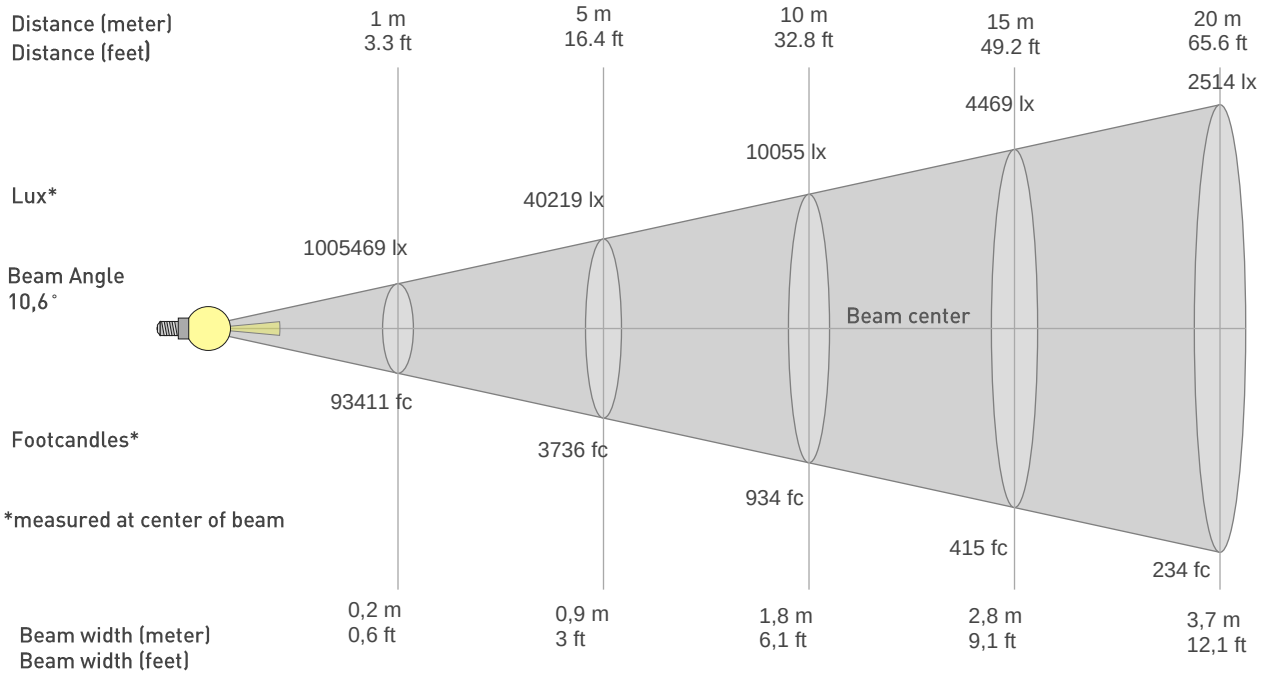
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BEAM DETAILS



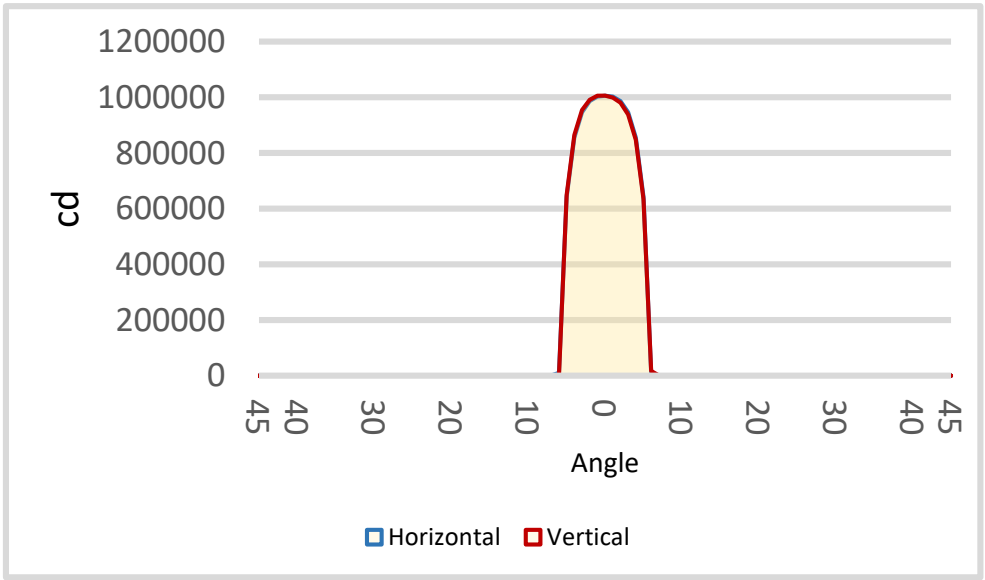
Beam width: = 0,2 * distance

Illuminance: = 1005469 / (distance^2)

distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

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
1005469lx	251367lx	111719lx	62842lx	40219lx	27930lx	20520lx	15710lx	12413lx	10055lx	8310lx	6982lx	5950lx	5130lx	4469lx	3928lx	3479lx	3103lx	2785lx	2514lx
93411,1fc	23352,8fc	10379fc	5838,2fc	3736,4fc	2594,8fc	1906,3fc	1459,5fc	1153,2fc	934,1fc	772fc	648,7fc	552,7fc	476,6fc	415,2fc	364,9fc	323,2fc	288,3fc	258,8fc	233,5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
10,6°	11,7°	11,9°

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