Photometric Report

MAC Viper XIP – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

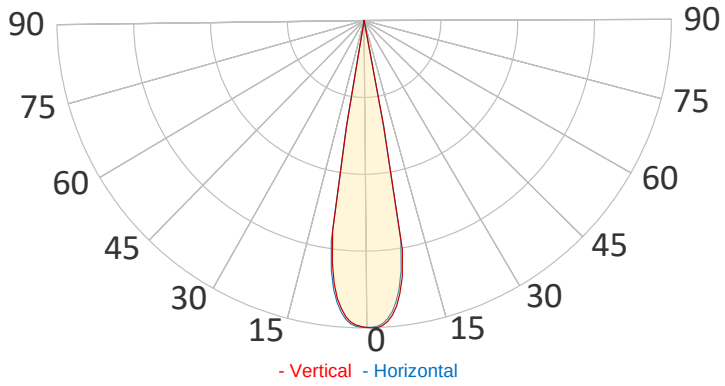
GENERAL SPECIFICATIONS

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)



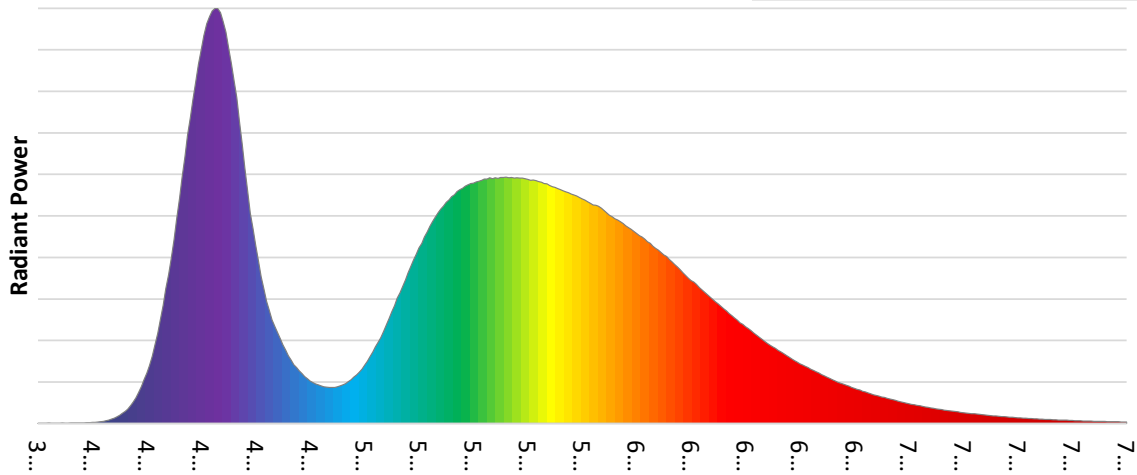
SAMPLE MEASUREMENT

POLAR PLOT



Catalog Number:	MAR-90250300HU
Measured Output:	27500 lm
Measured Peak:	334370 cd
Consumed Power:	900 W
Efficacy:	30,6 lm/W
Beam Angle (50%):	19,5°
Field Angle (10%):	20,8°
Cut-off Angle (3%):	21,6°
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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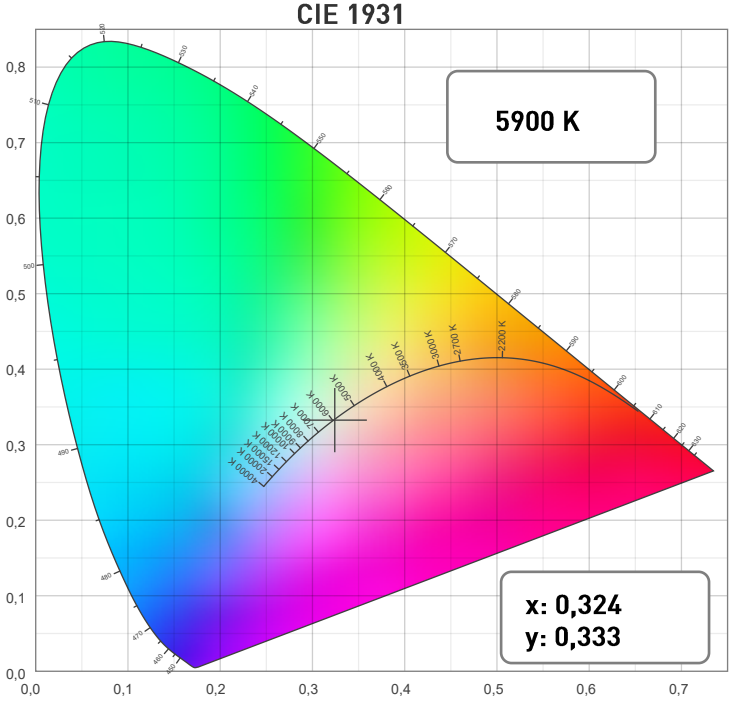
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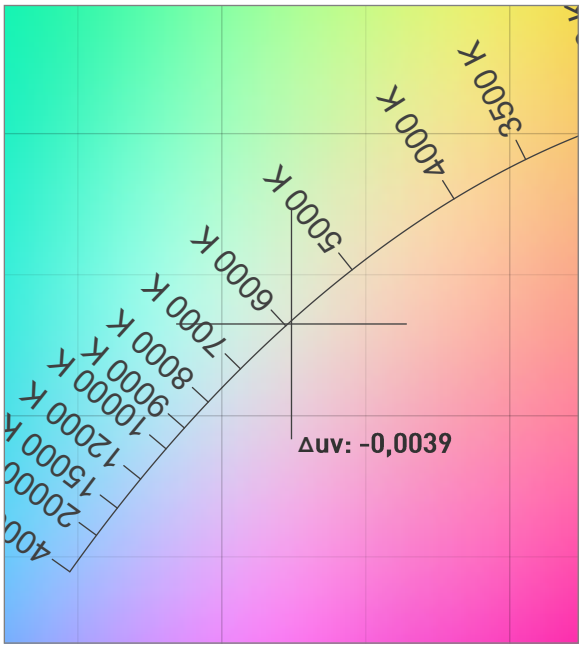
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CHROMATICITY

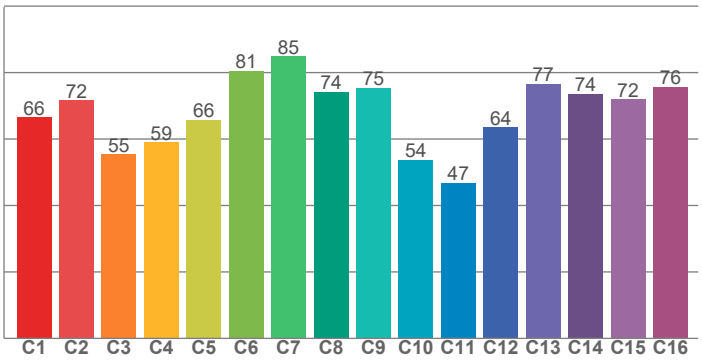
CIE 1931



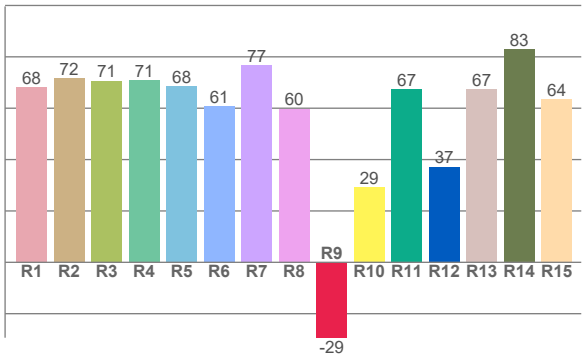
CIE 1931 ZOOM



TM30: 67,5



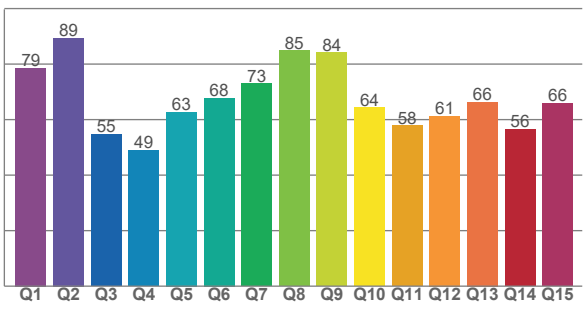
CRI: 68,3 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5900 K	68,3	-29,4	67,5	94,9

CQS: 65,7



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	65,7	0,324	0,333	0,204	0,315	-0,0039

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TM30

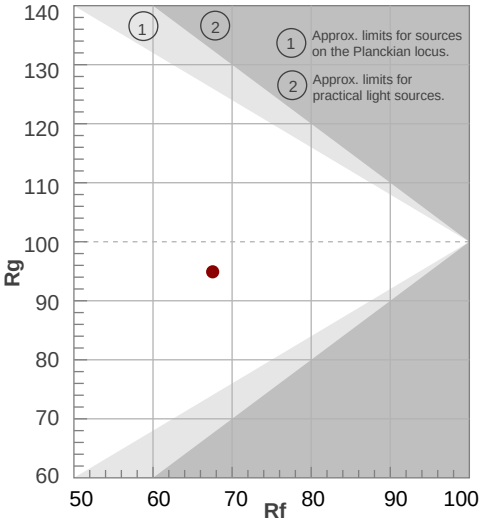
Rf 67,5

Fidelity index Rf

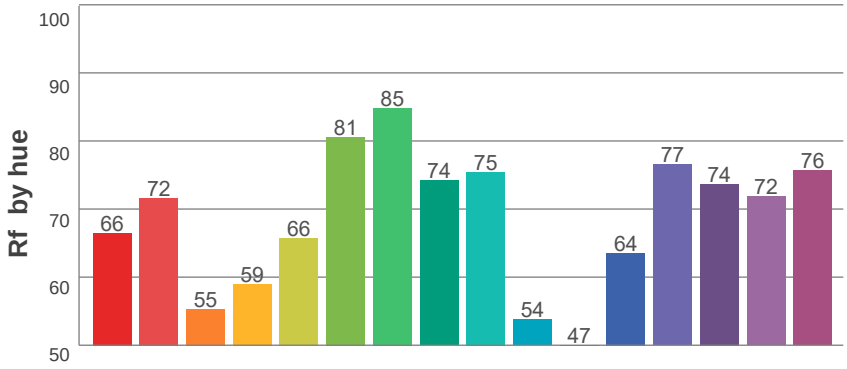
Rg 94,9

Gamut index Rg

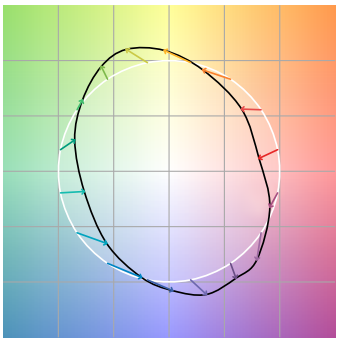
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	66	-18%	-4%
2	72	-14%	10%
3	55	-7%	25%
4	59	6%	26%
5	66	16%	16%
6	81	13%	-2%
7	85	1%	-10%
8	74	-11%	-11%
9	75	-21%	3%
10	54	-17%	23%
11	47	-6%	33%
12	64	5%	24%
13	77	16%	11%
14	74	14%	-3%
15	72	10%	-22%
16	76	-4%	-14%



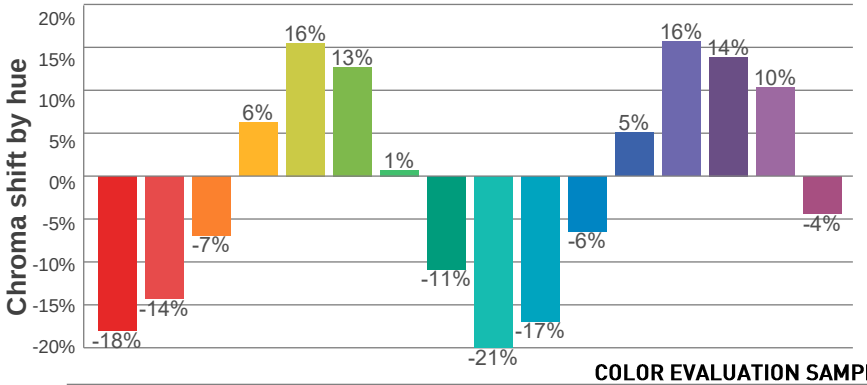
HUE BIN



COLOR VECTOR GRAPHICS



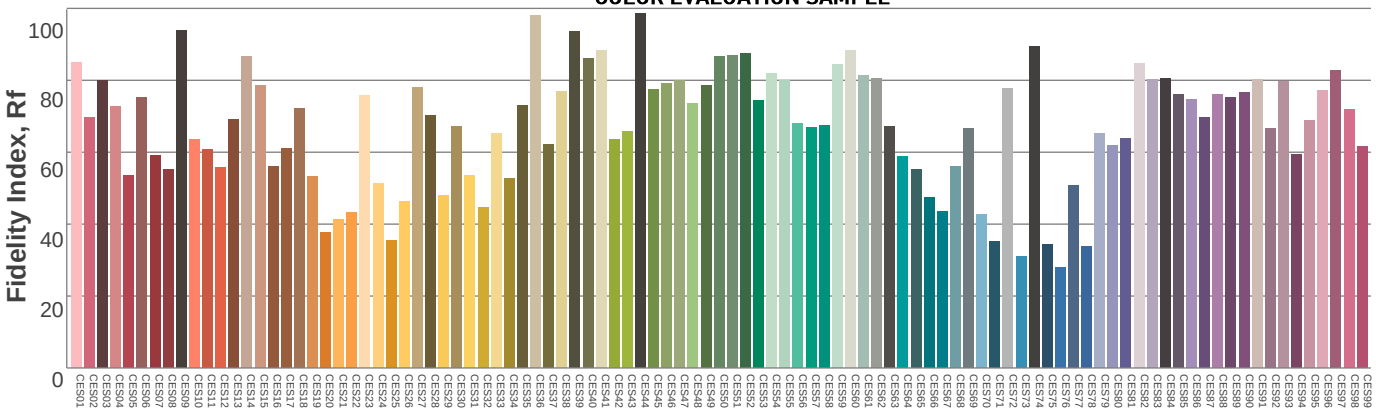
HUE BIN



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE



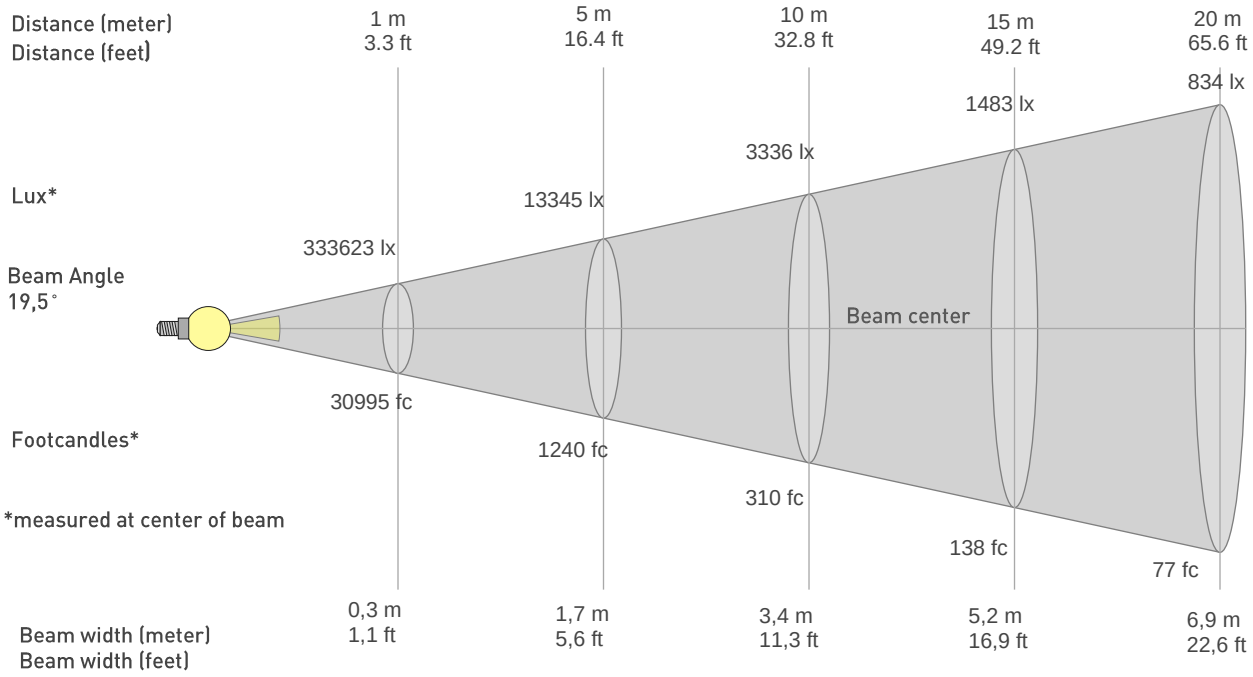
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BEAM DETAILS



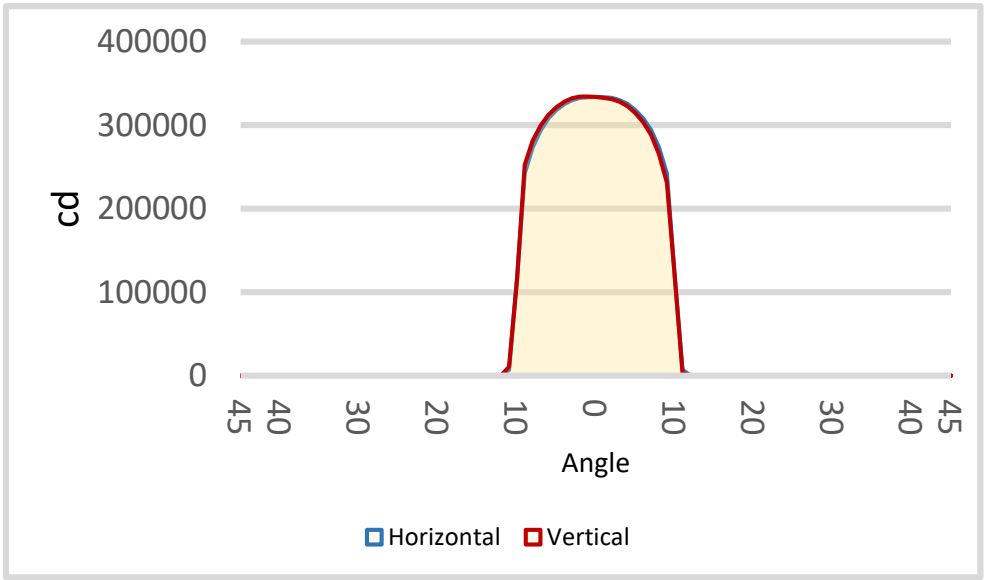
Beam width: = 0,3 * distance

Illuminance: = 333623 / (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
333623lx	83406lx	37069lx	20851lx	13345lx	9267lx	6809lx	5213lx	4119lx	3336lx	2757lx	2317lx	1974lx	1702lx	1483lx	1303lx	1154lx	1030lx	924lx	834lx
30994,6fc	7748,7fc	3443,8fc	1937,2fc	1239,8fc	861fc	632,5fc	484,3fc	382,6fc	309,9fc	256,2fc	215,2fc	183,4fc	158,1fc	137,8fc	121,1fc	107,2fc	95,7fc	85,9fc	77,5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
19,5°	20,8°	21,6°

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