Photometric Report

MAC Viper XIP – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

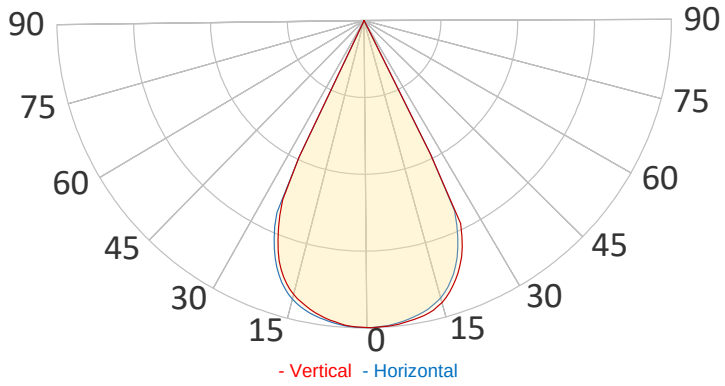
GENERAL SPECIFICATIONS

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)



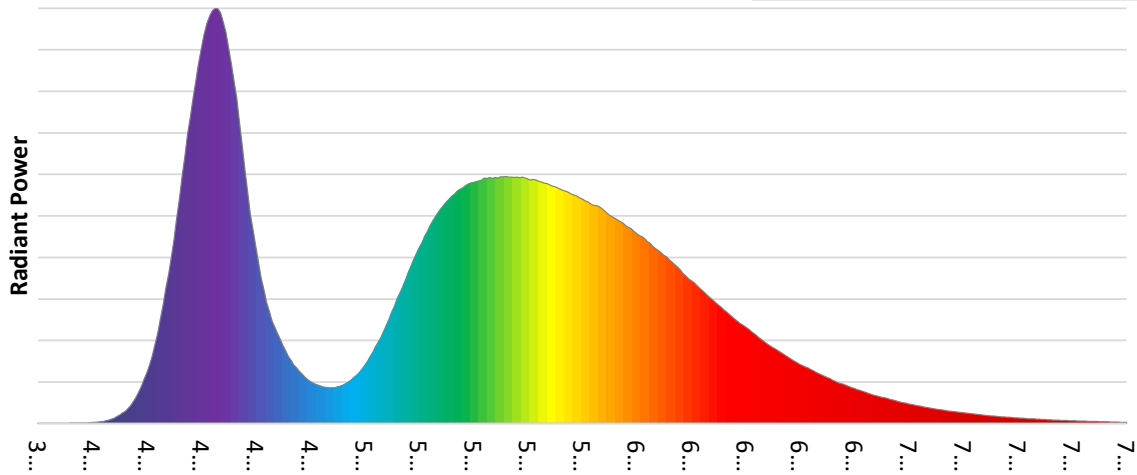
SAMPLE MEASUREMENT

POLAR PLOT



Catalog Number:	MAR-90250300HU
Measured Output:	28430 lm
Measured Peak:	50828 cd
Consumed Power:	900 W
Efficacy:	31,6 lm/W
Beam Angle (50%):	51,9°
Field Angle (10%):	53,6°
Cut-off Angle (3%):	53,9°
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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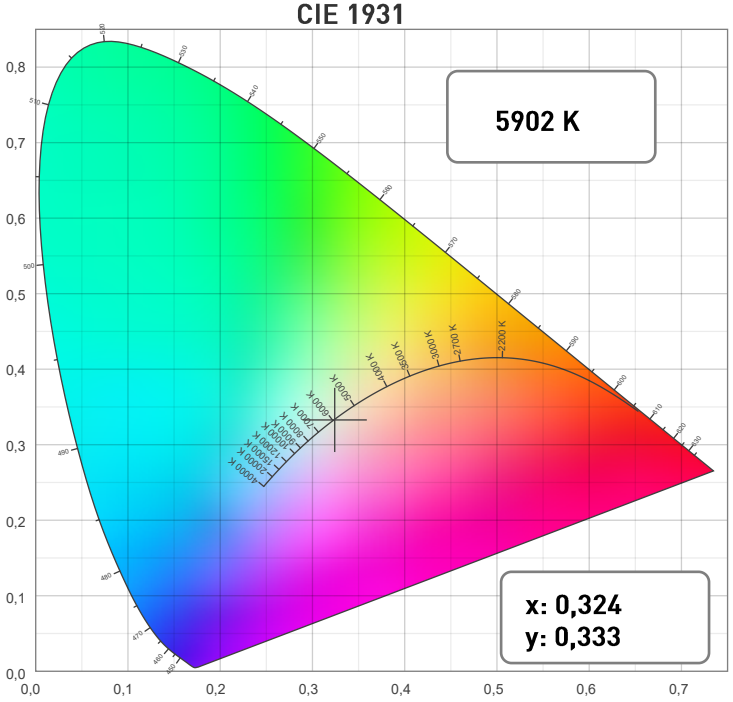
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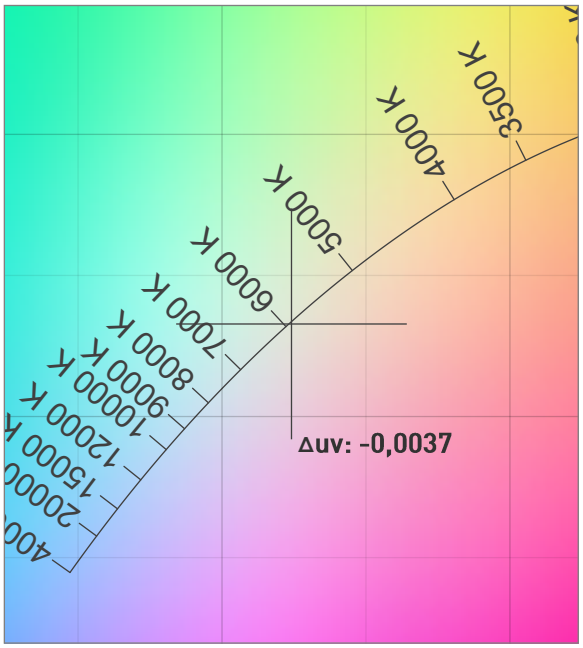
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CHROMATICITY

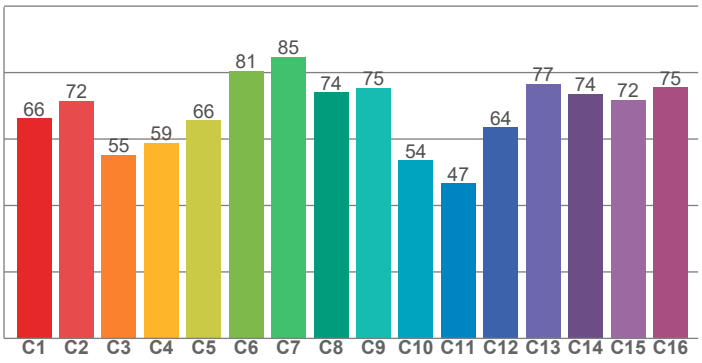
CIE 1931



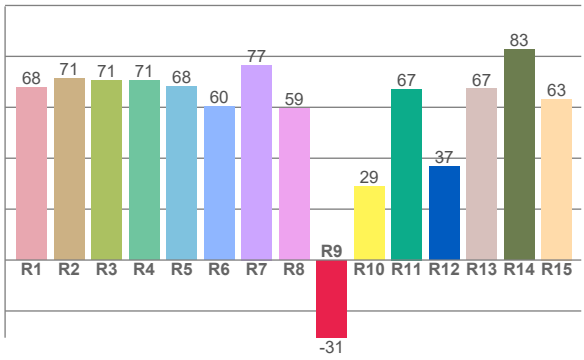
CIE 1931 ZOOM



TM30: 67,4



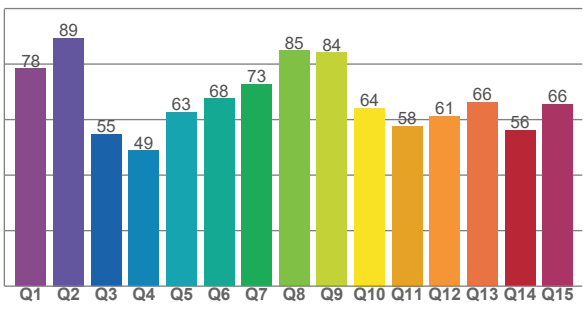
CRI: 68,1 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5902 K	68,1	-30,5	67,4	94,8

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	-0,0037

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TM30

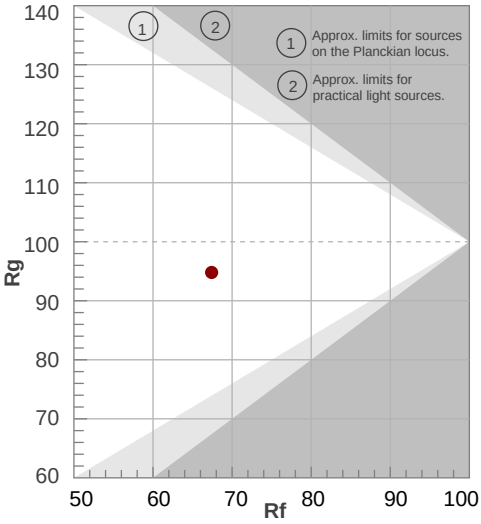
Rf 67,4

Fidelity index Rf

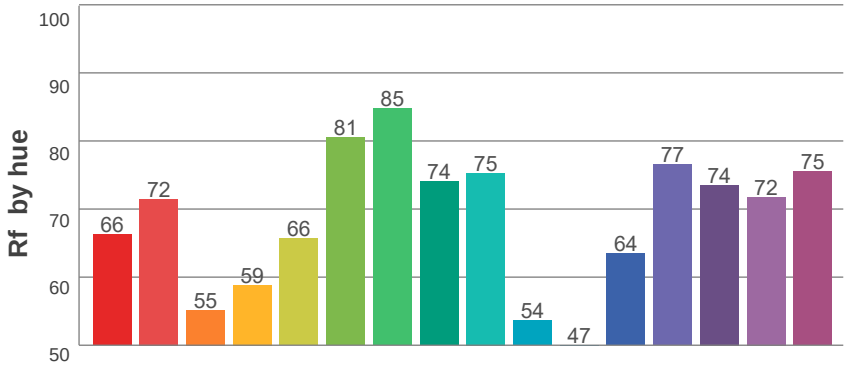
Rg 94,8

Gamut index Rg

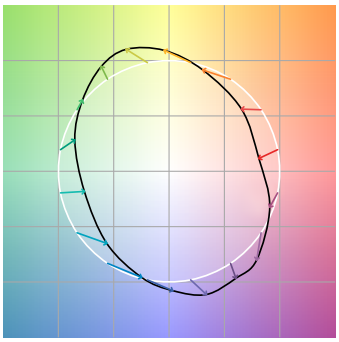
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	66	-18%	-4%
2	72	-14%	10%
3	55	-7%	25%
4	59	6%	26%
5	66	16%	16%
6	81	13%	-2%
7	85	1%	-10%
8	74	-11%	-11%
9	75	-21%	3%
10	54	-17%	23%
11	47	-7%	33%
12	64	5%	24%
13	77	16%	11%
14	74	14%	-3%
15	72	10%	-23%
16	75	-4%	-14%



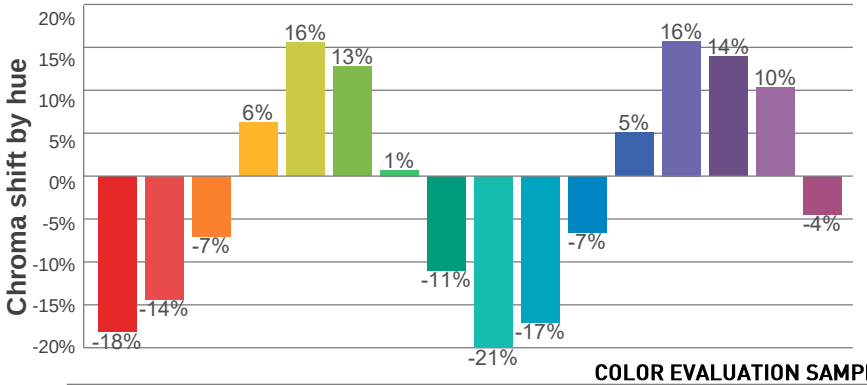
HUE BIN



COLOR VECTOR GRAPHICS



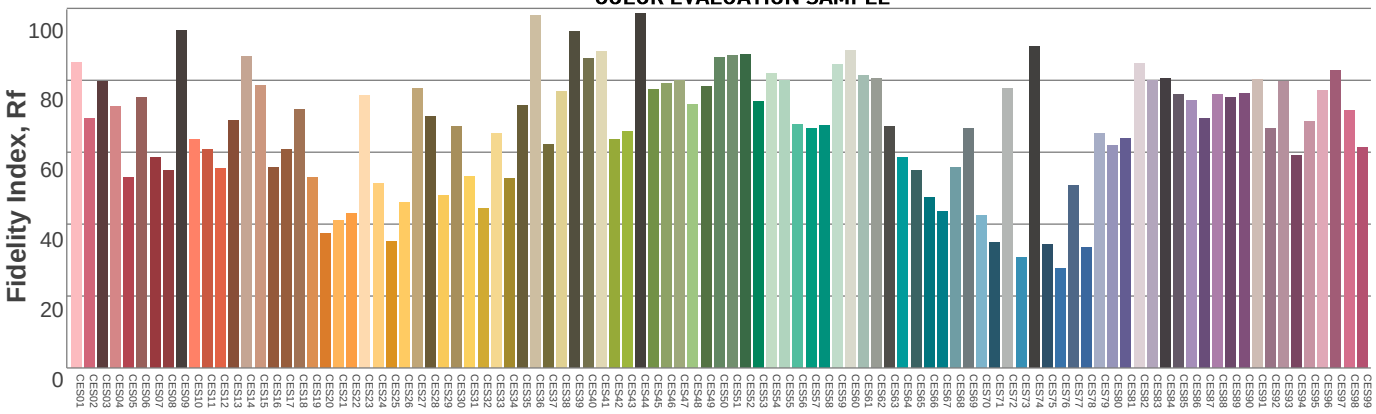
HUE BIN



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE



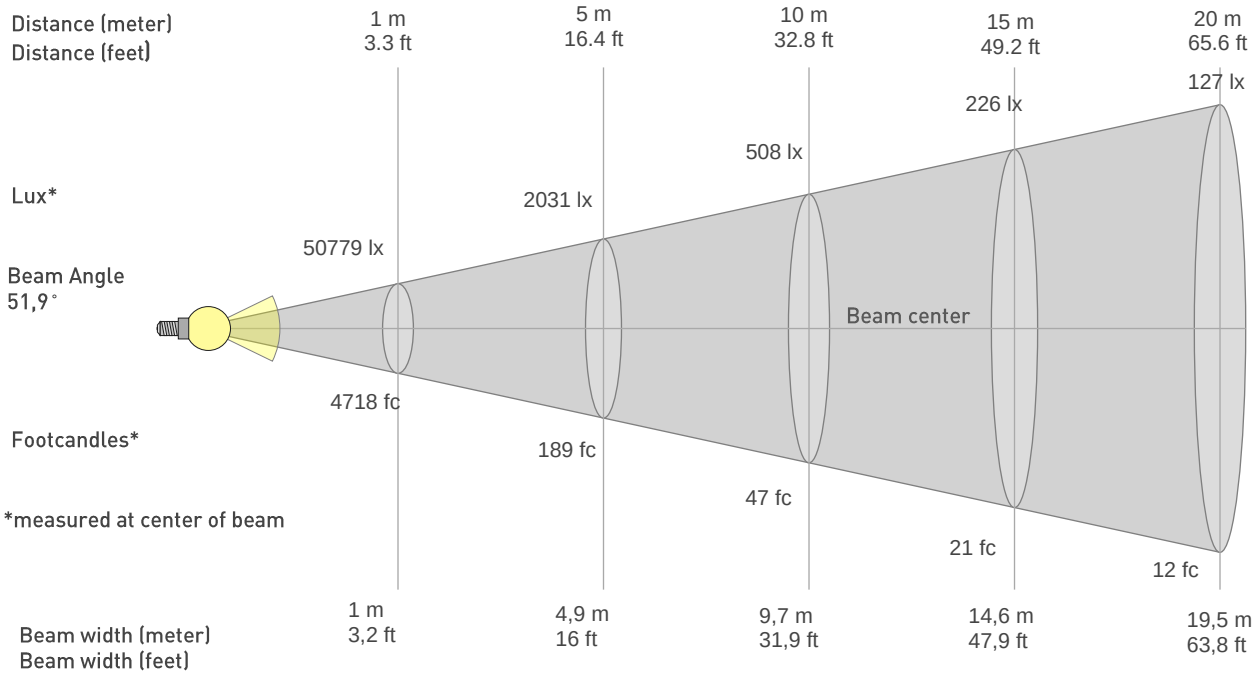
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BEAM DETAILS



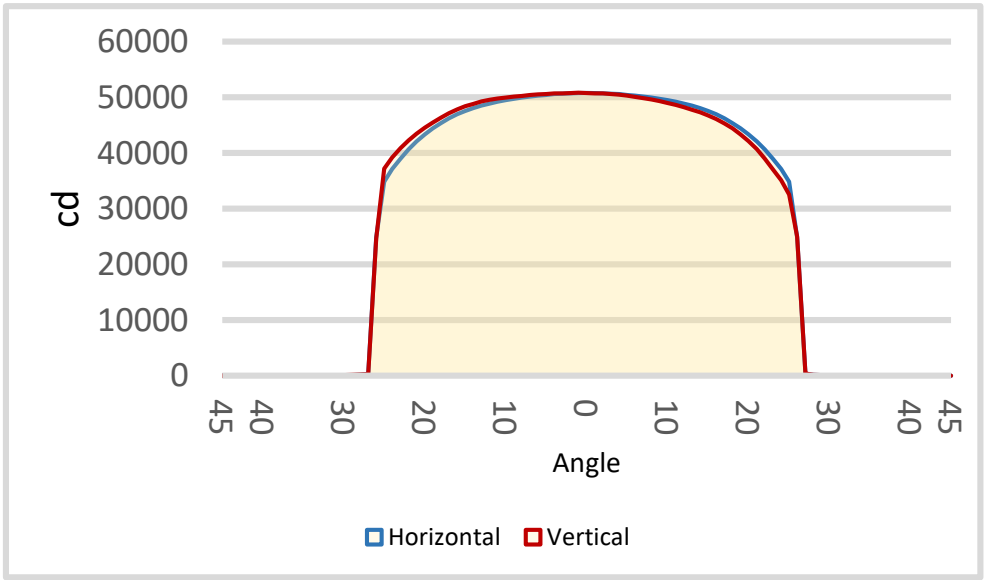
Beam width: = 1 * distance

Illuminance: = 50779 / (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
50779lx	12695lx	5642lx	3174lx	2031lx	1411lx	1036lx	793lx	627lx	508lx	420lx	353lx	300lx	259lx	226lx	198lx	176lx	157lx	141lx	127lx
4717,6fc	1179,4fc	524,2fc	294,8fc	188,7fc	131fc	96,3fc	73,7fc	58,2fc	47,2fc	39fc	32,8fc	27,9fc	24,1fc	21fc	18,4fc	16,3fc	14,6fc	13,1fc	11,8fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
51,9°	53,6°	53,9°

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