Photometric Report

MAC Viper XIP – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

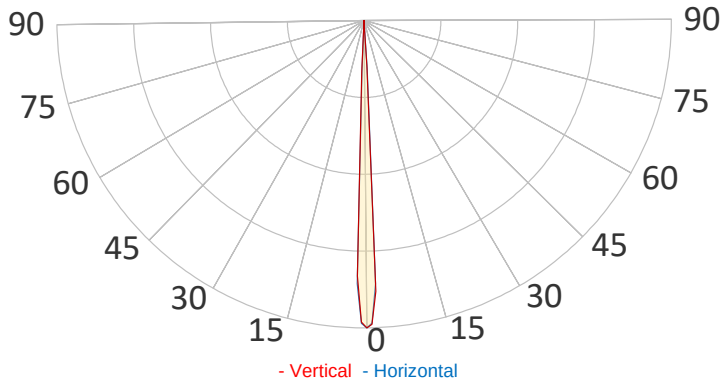
GENERAL SPECIFICATIONS

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)



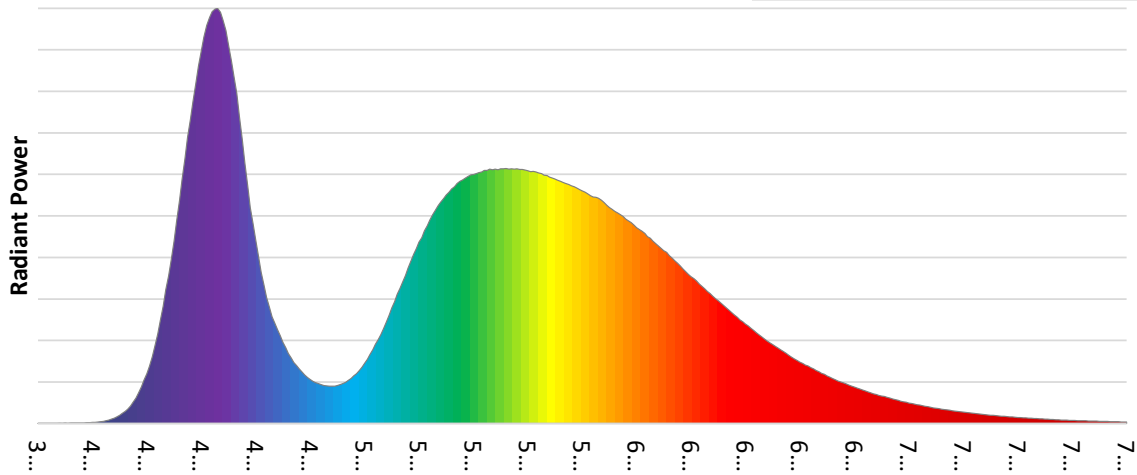
SAMPLE MEASUREMENT

POLAR PLOT



Catalog Number:	MAR-90250300HU
Measured Output:	15520 lm
Measured Peak:	2507665 cd
Consumed Power:	900 W
Efficacy:	17,2 lm/W
Beam Angle (50%):	5,1°
Field Angle (10%):	6,2°
Cut-off Angle (3%):	6,4°
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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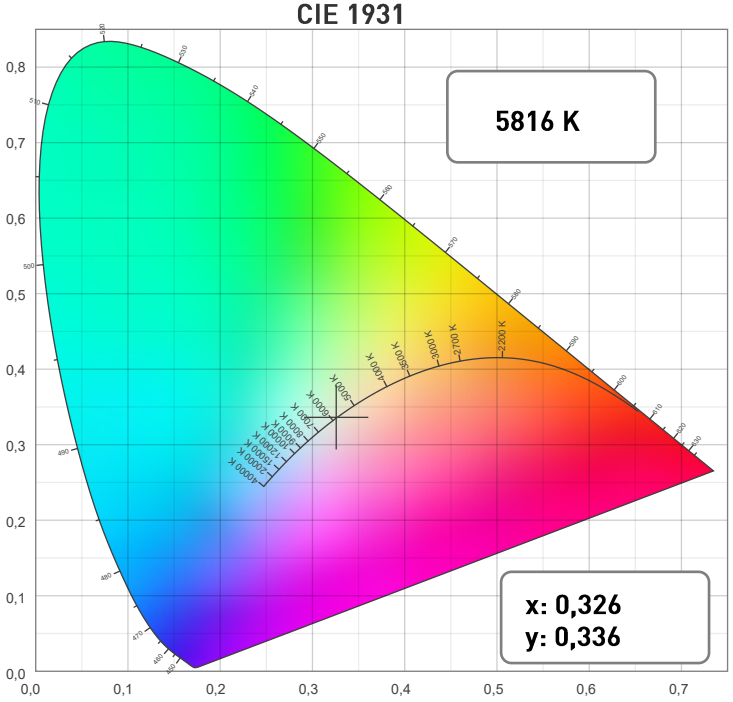
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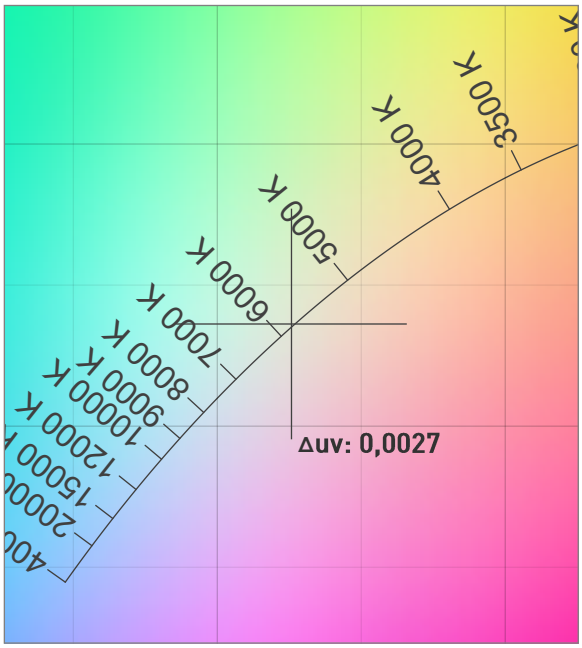
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CHROMATICITY

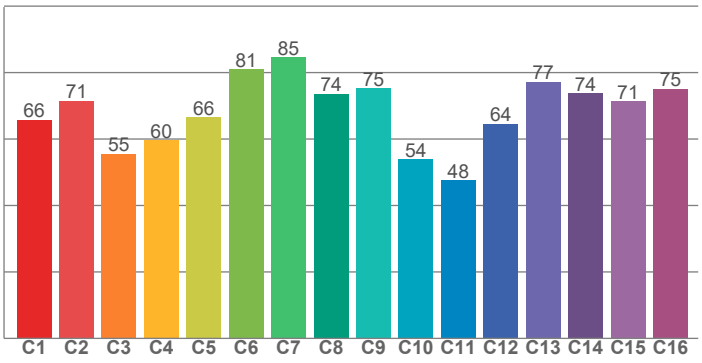
CIE 1931



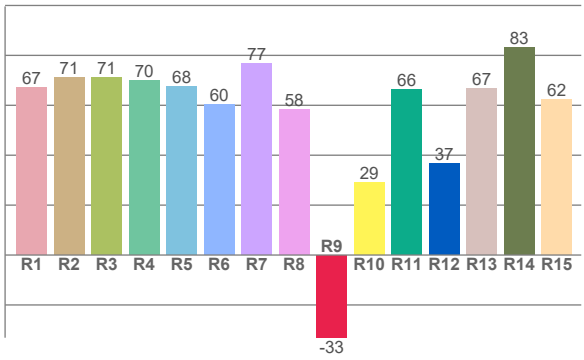
CIE 1931 ZOOM



TM30: 67,6



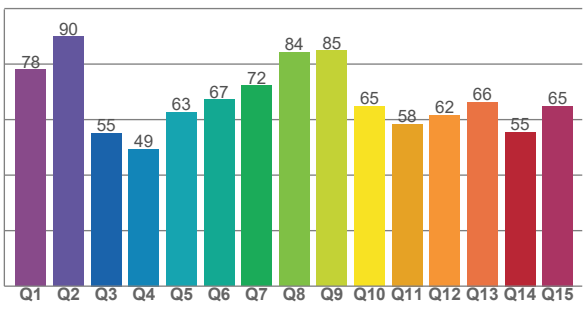
CRI: 67,9 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5816 K	67,9	-33,1	67,6	94,4

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	0,326	0,336	0,204	0,316	0,0027

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TM30

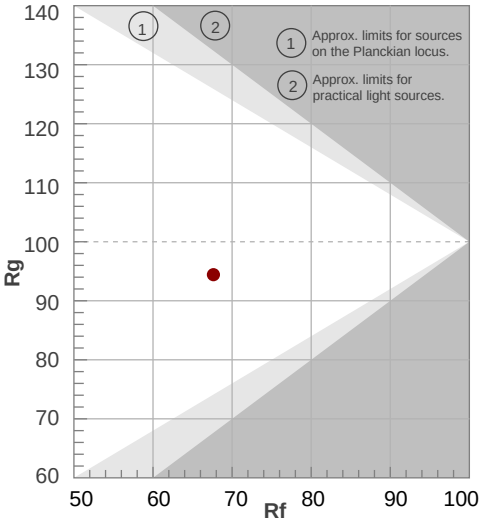
Rf 67,6

Fidelity index Rf

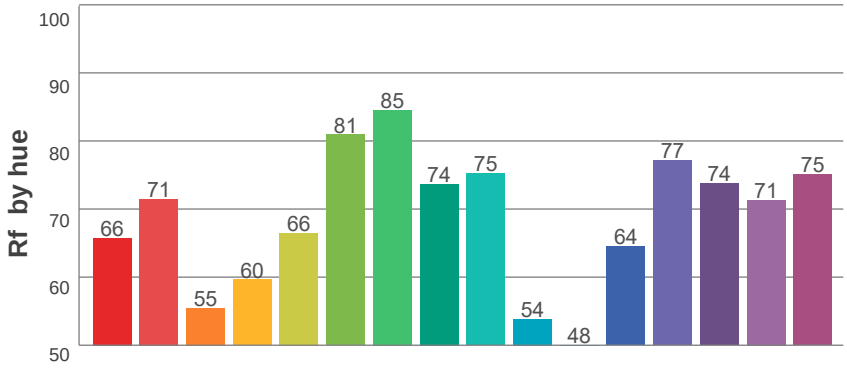
Rg 94,4

Gamut index Rg

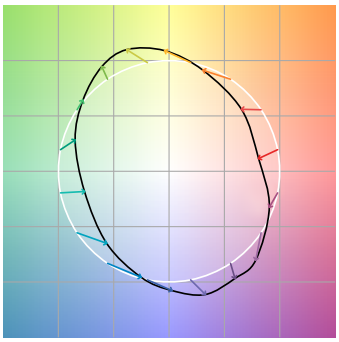
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	66	-18%	-5%
2	71	-15%	10%
3	55	-7%	25%
4	60	6%	25%
5	66	15%	16%
6	81	12%	-2%
7	85	0%	-10%
8	74	-11%	-11%
9	75	-22%	3%
10	54	-17%	23%
11	48	-6%	32%
12	64	5%	24%
13	77	16%	10%
14	74	14%	-4%
15	71	10%	-23%
16	75	-5%	-14%



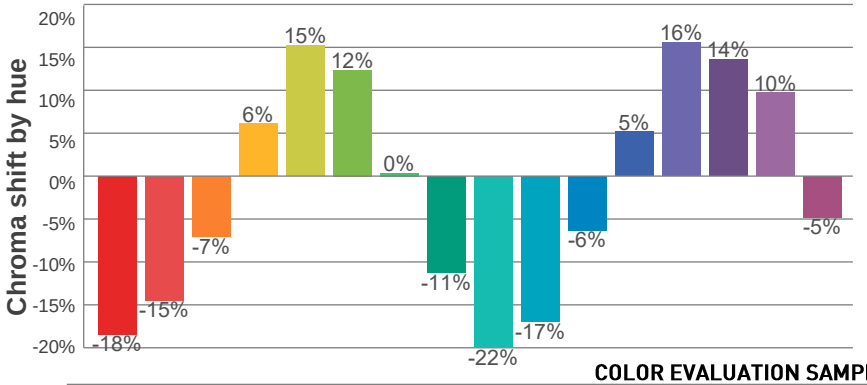
HUE BIN



COLOR VECTOR GRAPHICS



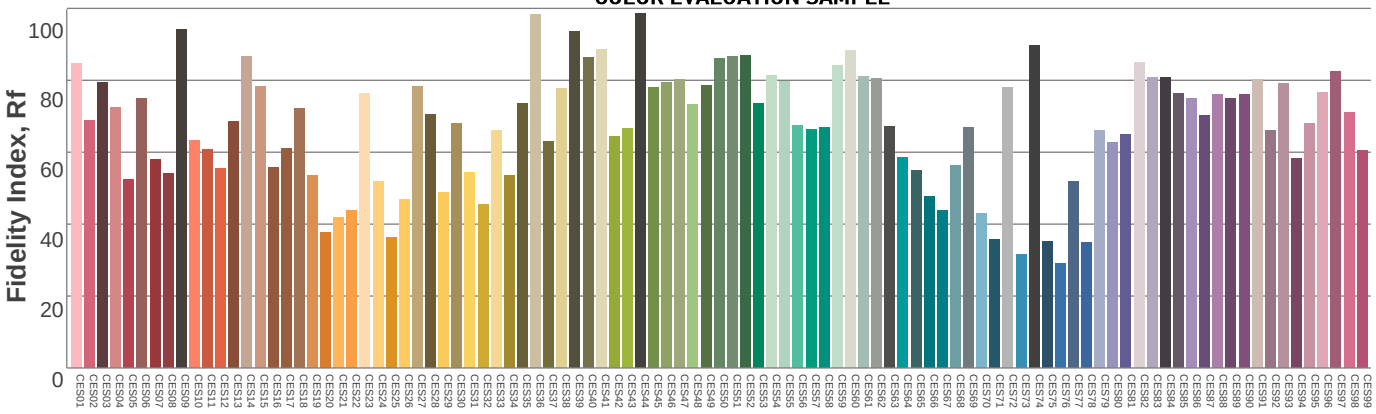
HUE BIN



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE



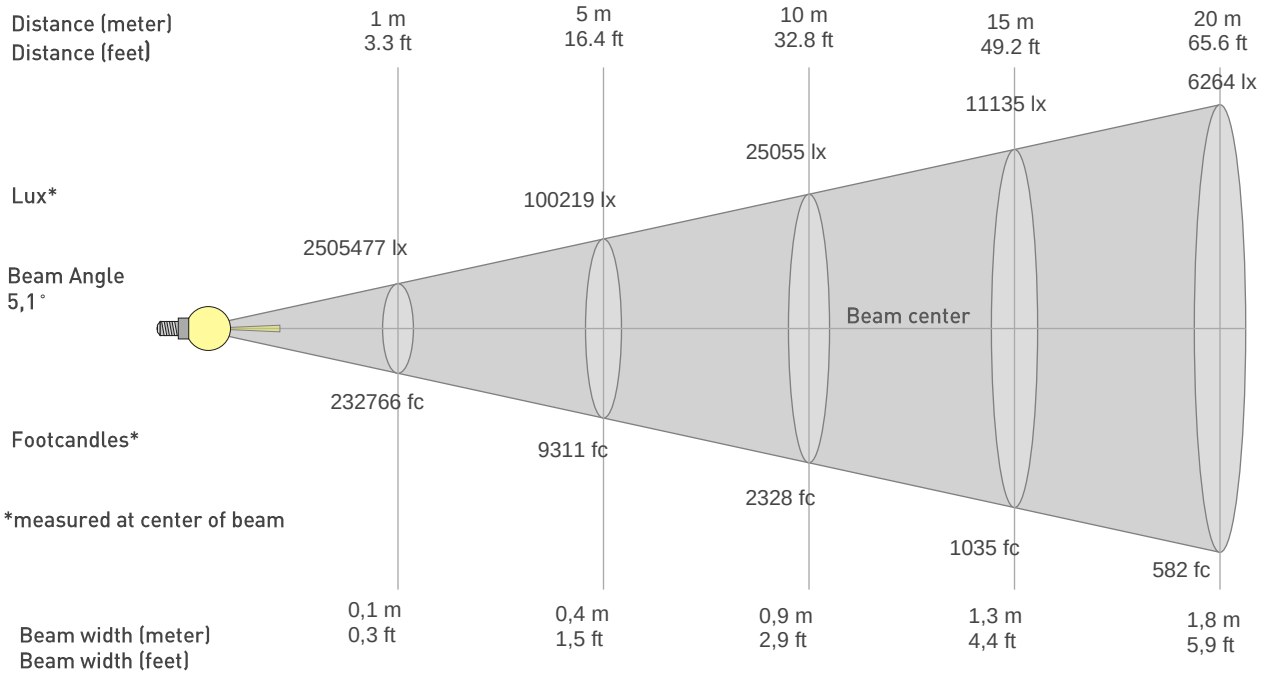
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BEAM DETAILS



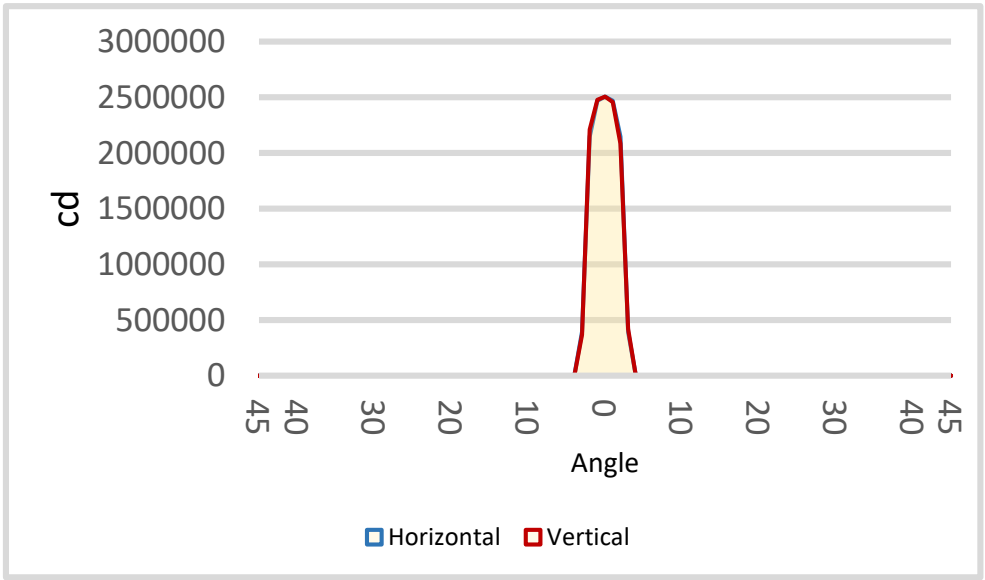
Beam width: = 0,1 * distance

Illuminance: = 2505477 / (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
2505477lx	626369lx	278386lx	156592lx	100219lx	69597lx	51132lx	39148lx	30932lx	25055lx	20706lx	17399lx	14825lx	12783lx	11135lx	9787lx	8669lx	7733lx	6940lx	6264lx
232766,4fc	58191,6fc	25862,9fc	14547,9fc	9310,7fc	6465,7fc	4750,3fc	3637fc	2873,7fc	2327,7fc	1923,7fc	1616,4fc	1377,3fc	1187,6fc	1034,5fc	909,2fc	805,4fc	718,4fc	644,8fc	581,9fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
5,1°	6,2°	6,4°

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