

Photometric Report

MAC One – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

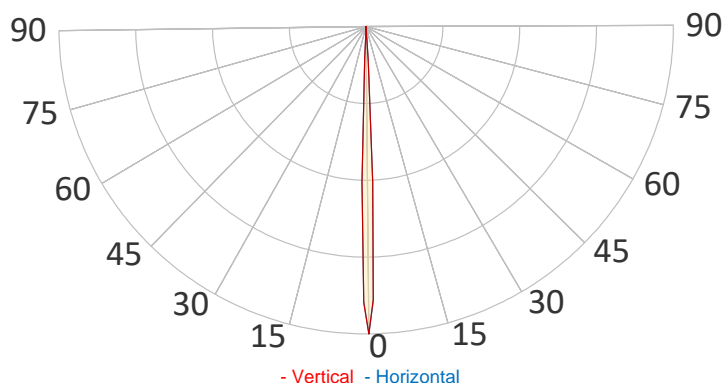
GENERAL SPECIFICATIONS

Total Fixture Output:	2500 lm
Light Engine Output:	5700 lm
Efficacy:	21 lm/W
Lens Option:	N/A
Beam Angle (50%):	4,0-18,7°
Field Angle (10%):	6,1-26,5°
Cut-off Angle (3%):	7,5-29,8°
CRI:	76
CQS:	86
TM-30 Rf:	80
TM-30 Rg:	114
TLCI:	67
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

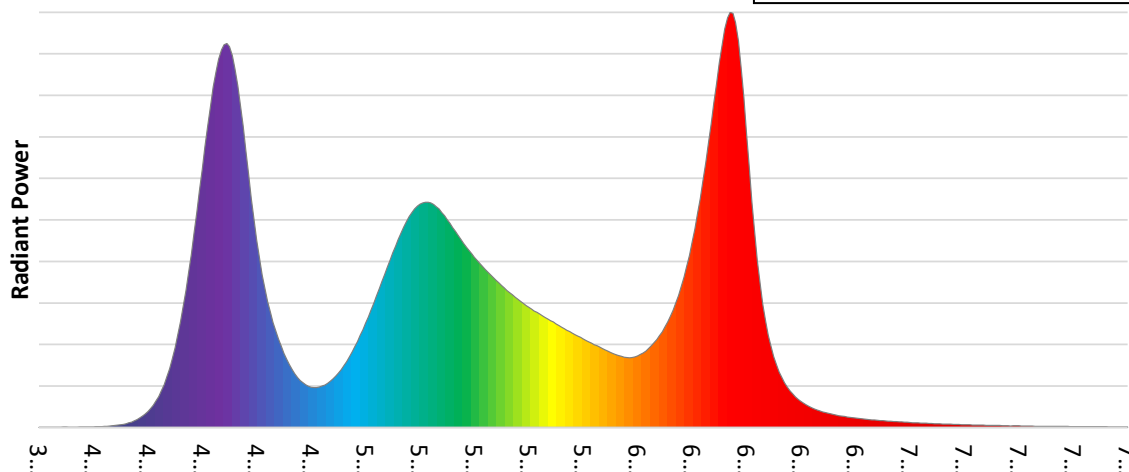


Catalog Number:	MAR-90250200HU
Measured Output:	1901 lm
Measured Peak:	375126 cd
Consumed Power:	117 W
Efficacy:	16,2 lm/W

Beam Angle (50%):	4°
Field Angle (10%):	6.1°
Cut-off Angle (3%):	7.5°

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

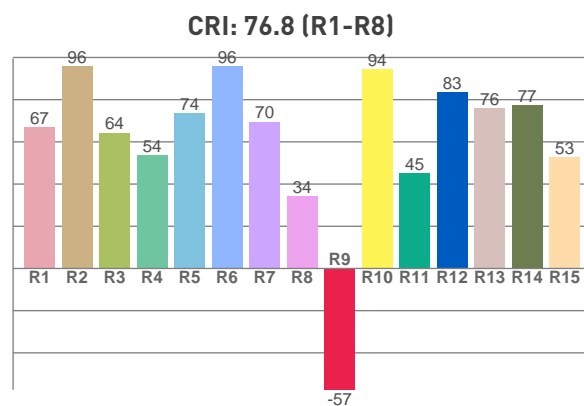
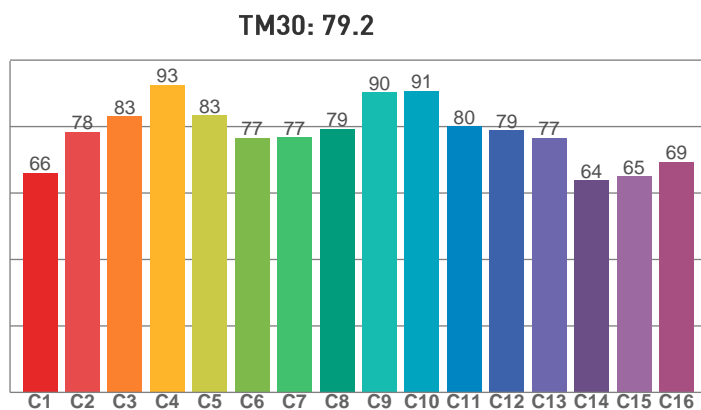
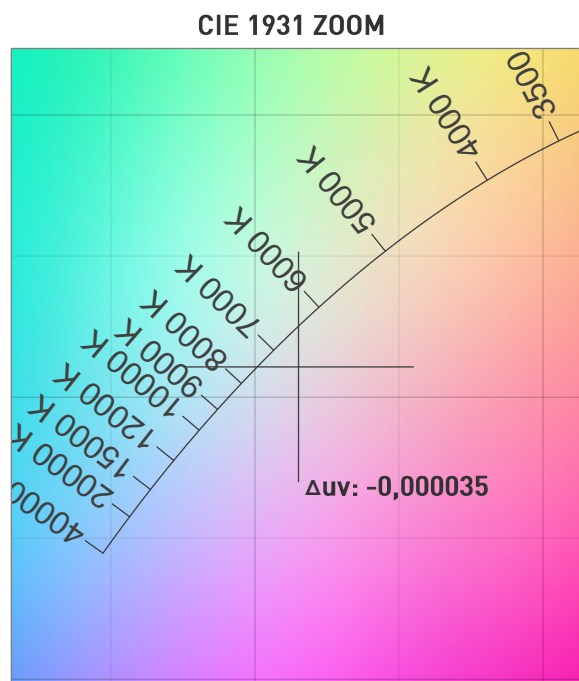
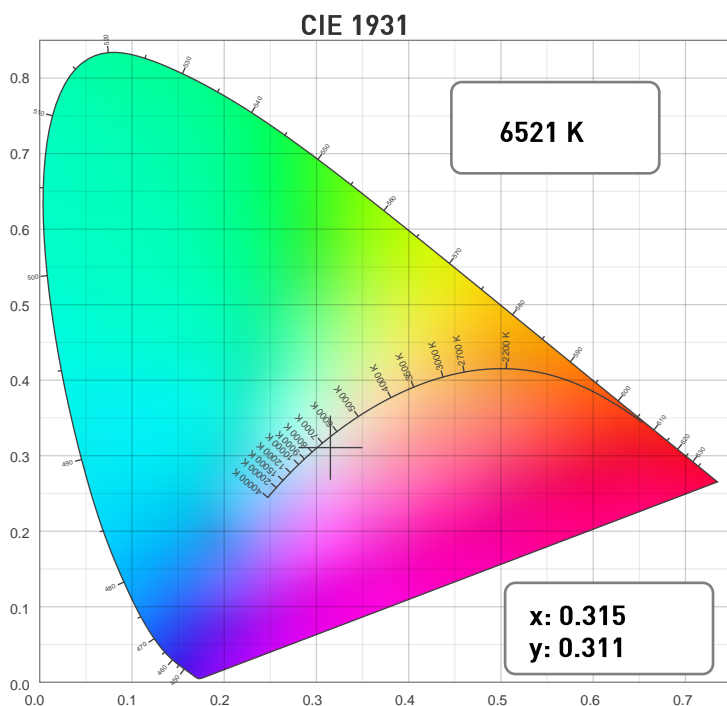
SPECTRAL DISTRIBUTION



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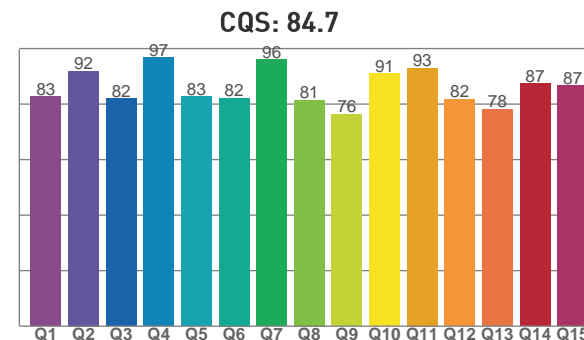
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6521 K	76.8	-57.5	79.2	119.3



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
67	84.7	0.315	0.311	0.207	0.306	-0,000035

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TM30

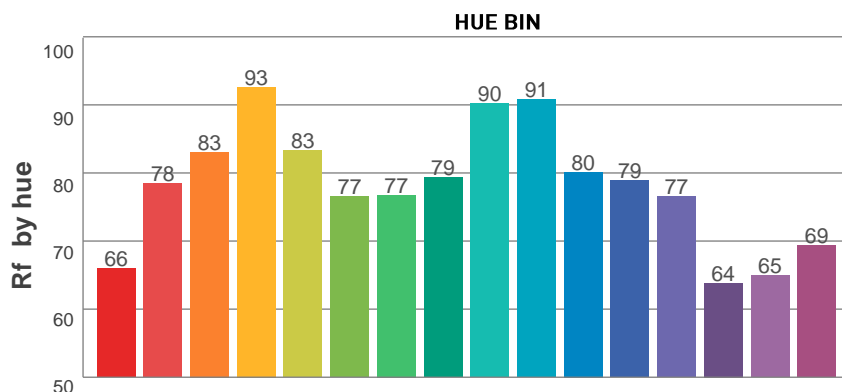
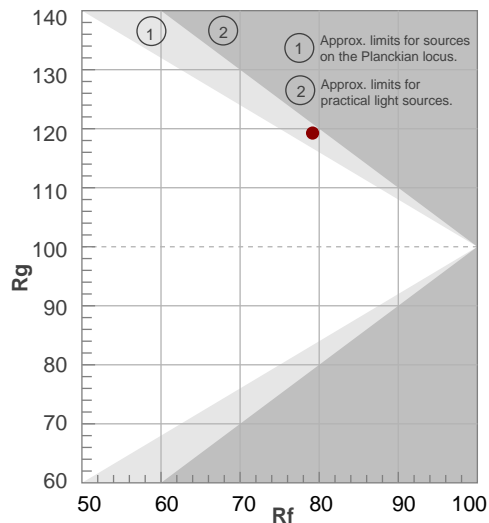
Rf 79.2

Fidelity index Rf

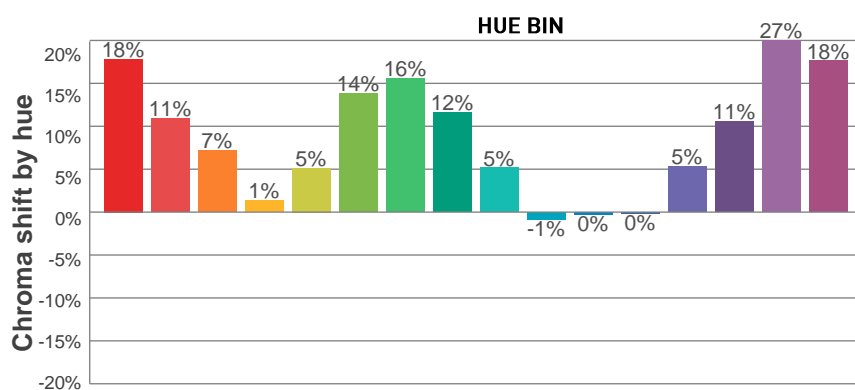
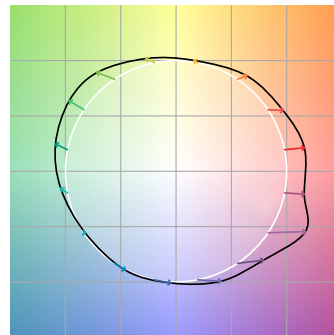
Rg 119.3

Gamut index Rg

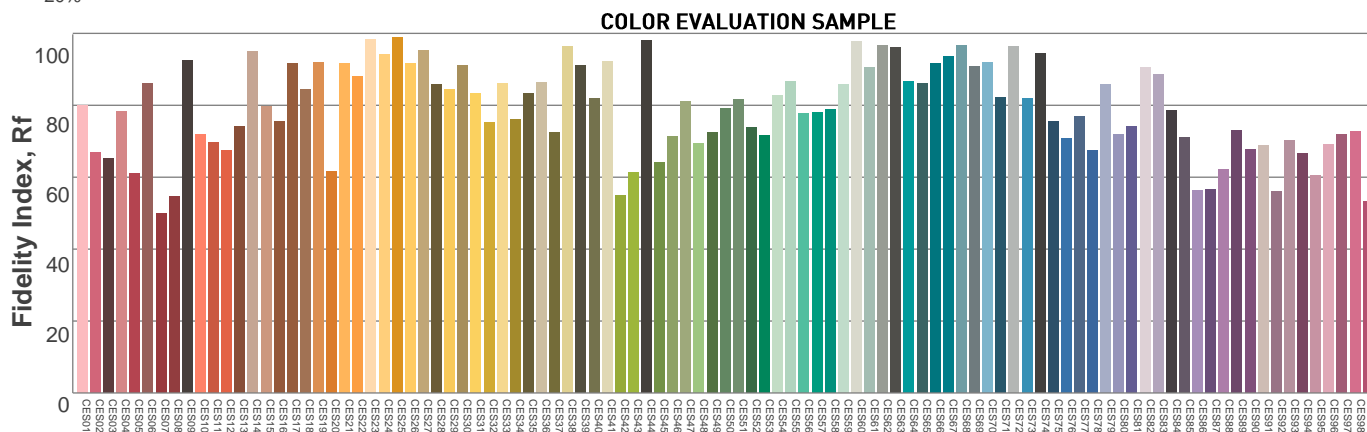
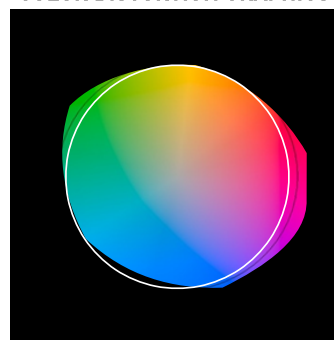
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	66	18%	-2%
2	78	11%	-8%
3	83	7%	-5%
4	93	1%	4%
5	83	5%	7%
6	77	14%	10%
7	77	16%	1%
8	79	12%	-3%
9	90	5%	-5%
10	91	-1%	1%
11	80	0%	11%
12	79	0%	15%
13	77	5%	20%
14	64	11%	21%
15	65	27%	20%
16	69	18%	2%



COLOR VECTOR GRAPHICS



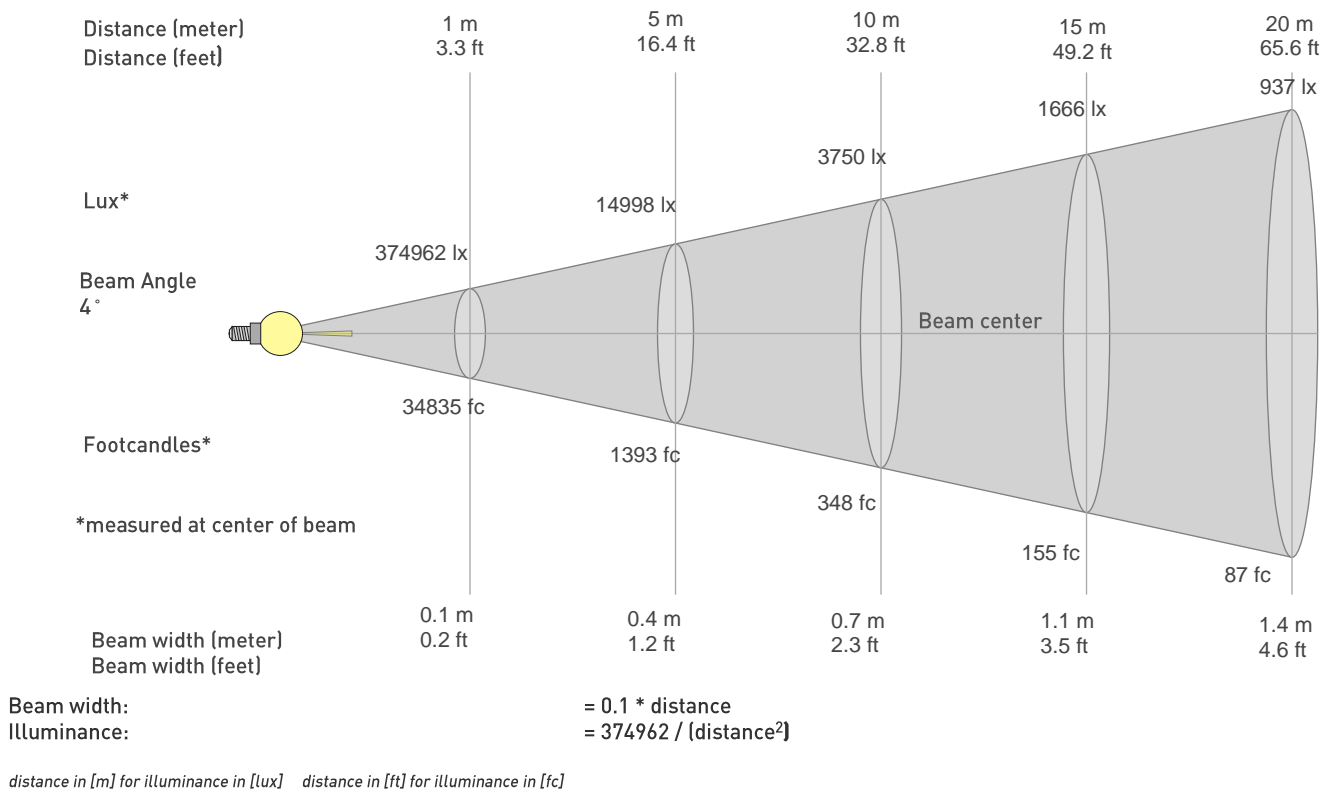
COLOR DISTORTION GRAPHICS



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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
374962lx	93740lx	41662lx	23435lx	14998lx	10416lx	7652lx	5859lx	4629lx	3750lx	3099lx	2604lx	2219lx	1913lx	1666lx	1465lx	1297lx	1157lx	1039lx	937lx
34835.1fc	8708.8fc	3870.6fc	2177.2fc	1393.4fc	967.6fc	710.9fc	544.3fc	430.1fc	348.4fc	287.9fc	241.9fc	206.1fc	177.7fc	154.8fc	136.1fc	120.5fc	107.5fc	96.5fc	87.1fc

