

Photometric Report

MAC One – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

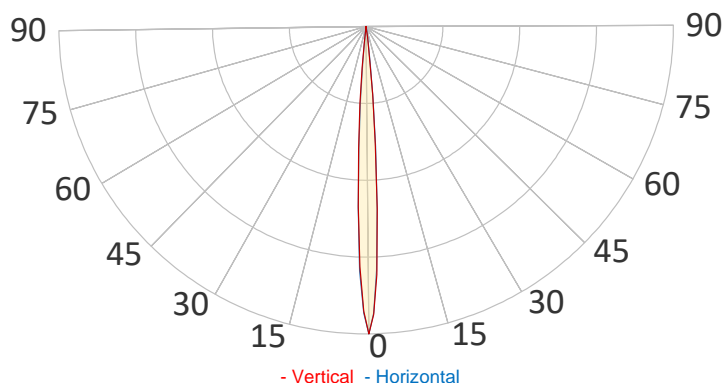
GENERAL SPECIFICATIONS

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:	68
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

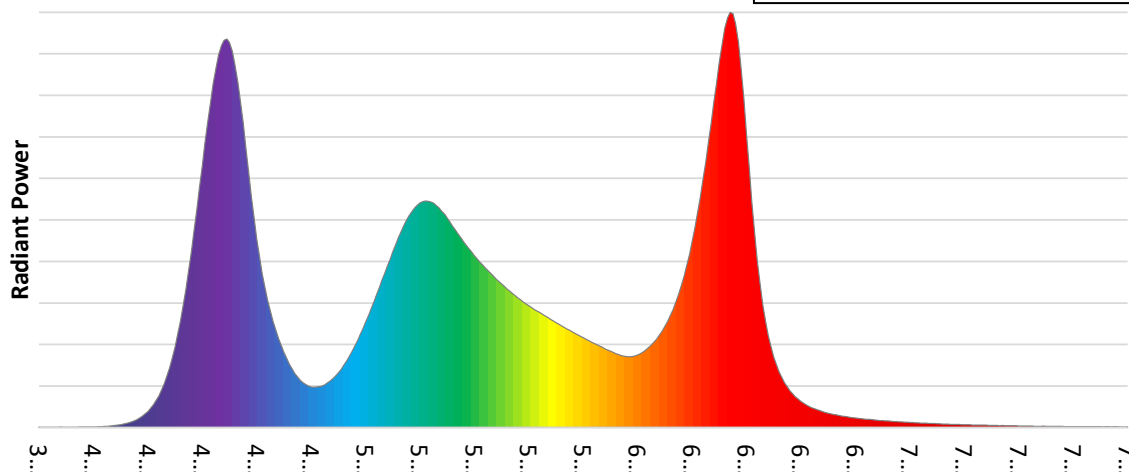


Catalog Number:	MAR-90250200HU
Measured Output:	2284 lm
Measured Peak:	138538 cd
Consumed Power:	117 W
Efficacy:	19,5 lm/W

Beam Angle (50%):	6.8°
Field Angle (10%):	12.3°
Cut-off Angle (3%):	14.8°

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

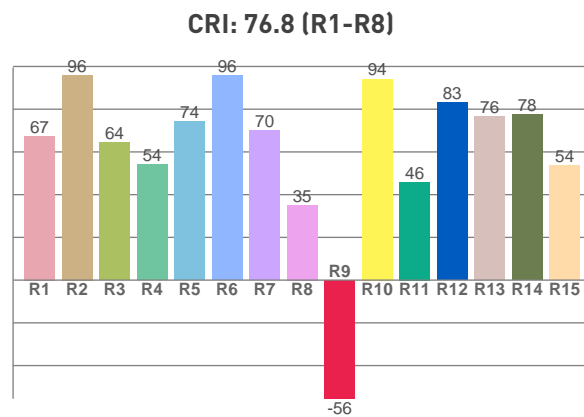
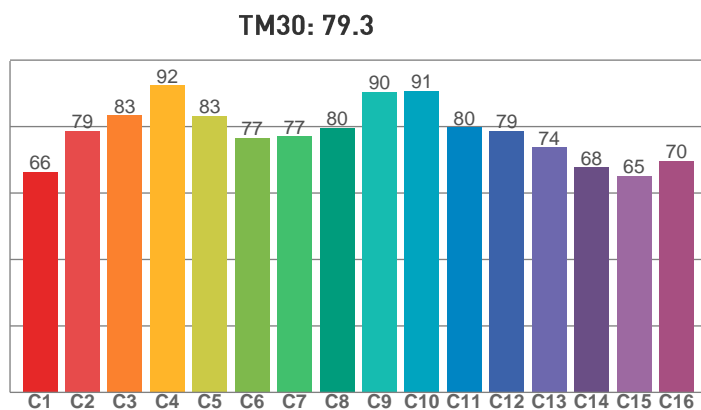
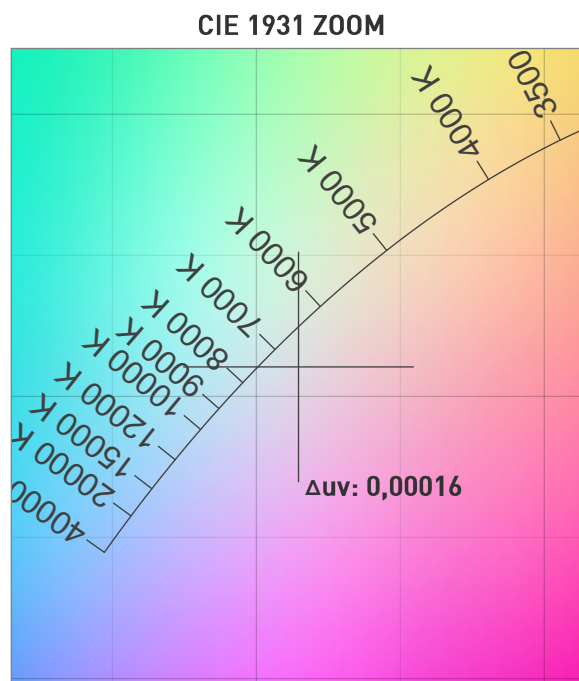
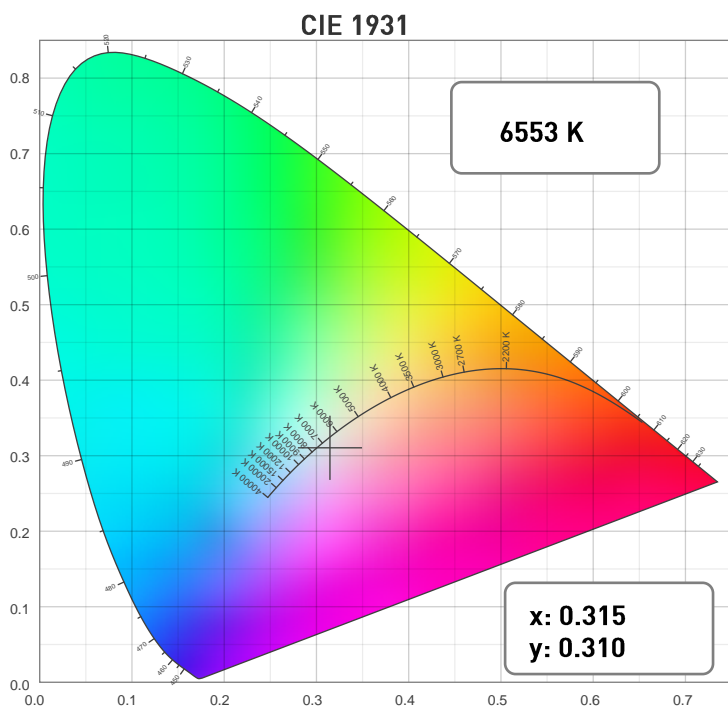
SPECTRAL DISTRIBUTION



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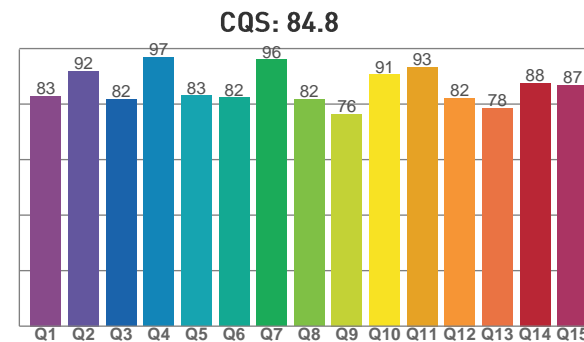
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6553 K	76.8	-55.5	79.3	118.8



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
68	84.8	0.315	0.310	0.206	0.306	0,00016

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TM30

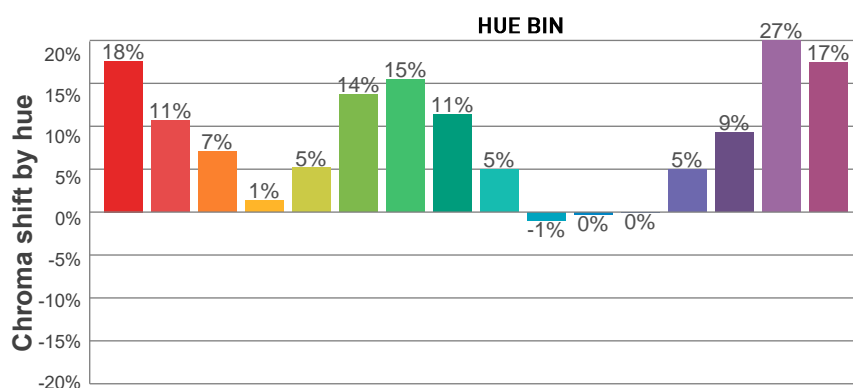
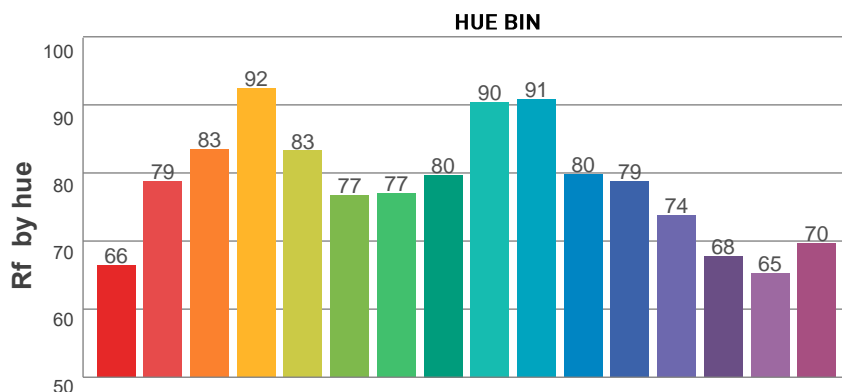
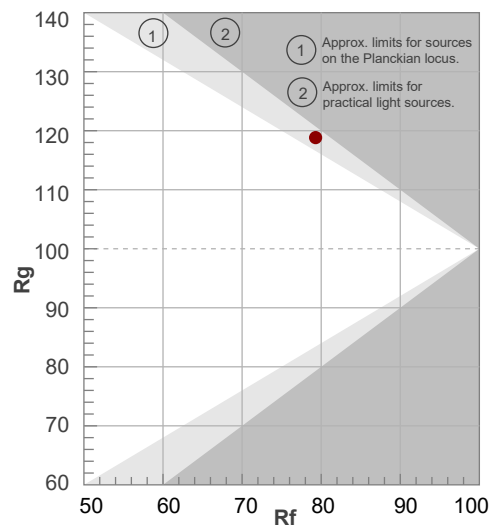
Rf 79.3

Fidelity index Rf

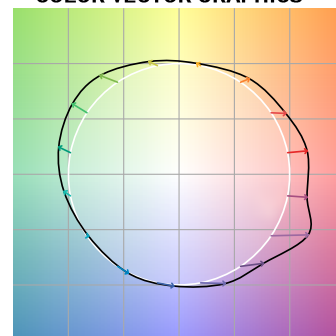
Rg 118.8

Gamut index Rg

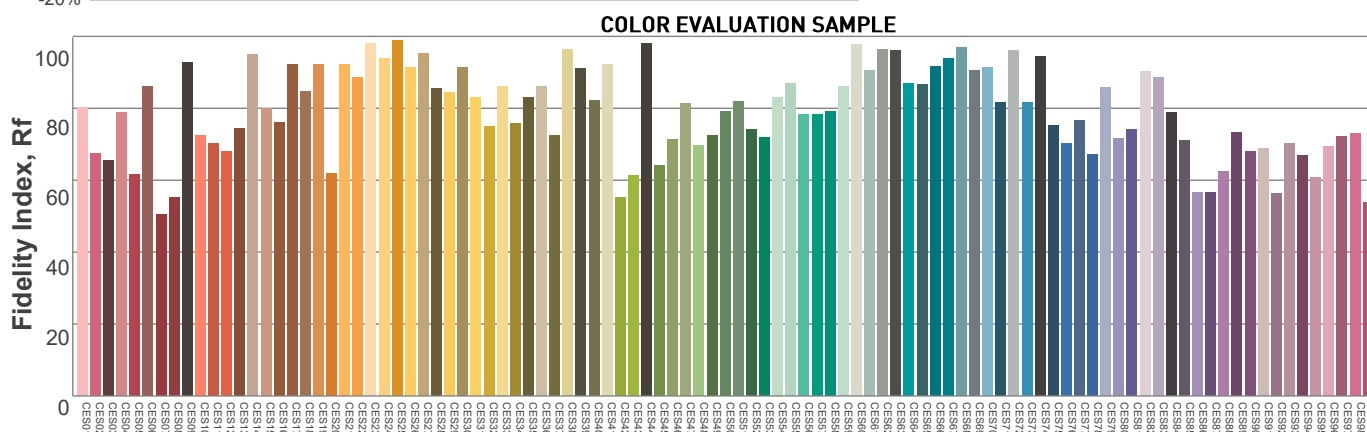
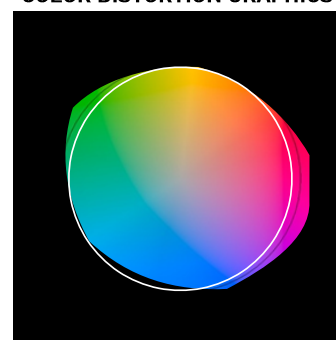
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	66	18%	-2%
2	79	11%	-8%
3	83	7%	-5%
4	92	1%	4%
5	83	5%	7%
6	77	14%	10%
7	77	15%	1%
8	80	11%	-3%
9	90	5%	-5%
10	91	-1%	1%
11	80	0%	12%
12	79	0%	15%
13	74	5%	22%
14	68	9%	19%
15	65	27%	19%
16	70	17%	2%



COLOR VECTOR GRAPHICS



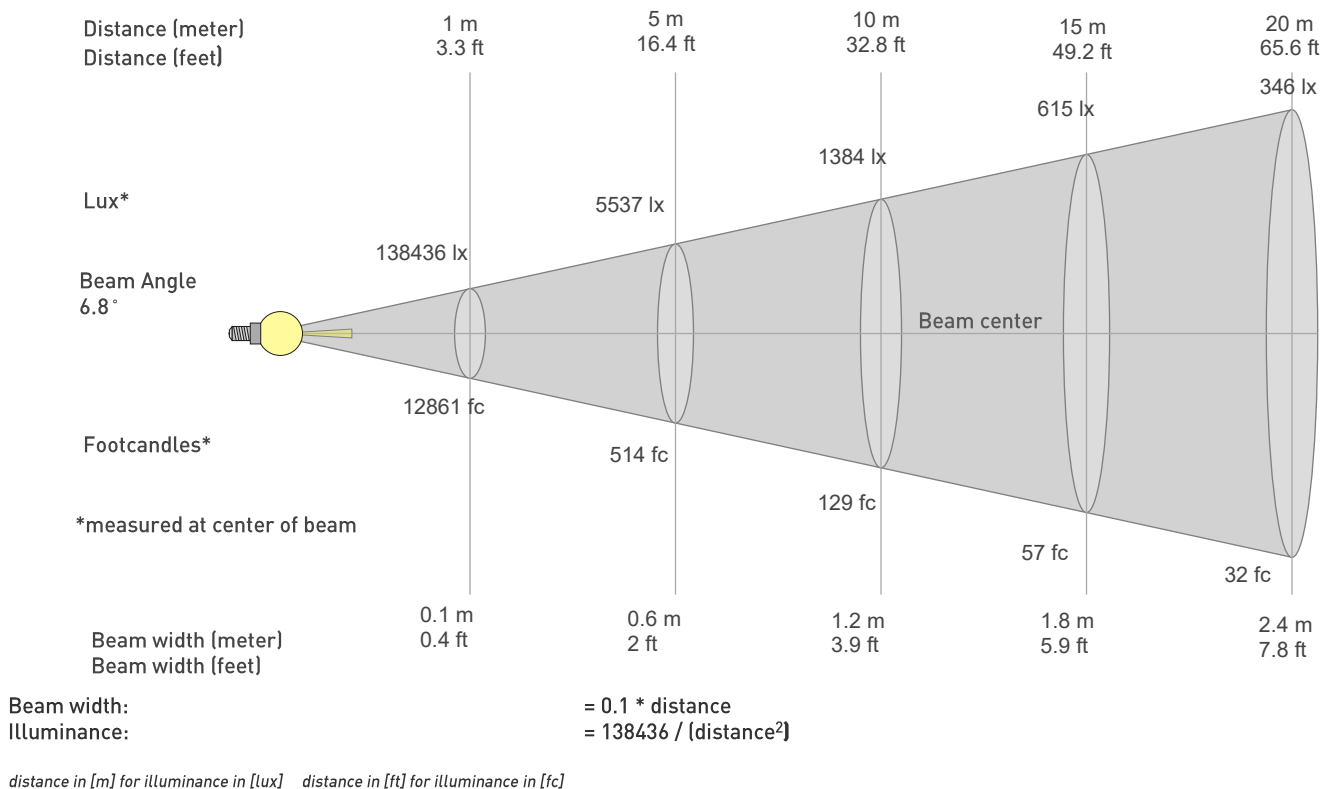
COLOR DISTORTION GRAPHICS



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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
138436lx	34609lx	15382lx	8652lx	5537lx	3845lx	2825lx	2163lx	1709lx	1384lx	1144lx	961lx	819lx	706lx	615lx	541lx	479lx	427lx	383lx	346lx
12861.1fc	3215.3fc	1429fc	803.8fc	514.4fc	357.3fc	262.5fc	201fc	158.8fc	128.6fc	106.3fc	89.3fc	76.1fc	65.6fc	57.2fc	50.2fc	44.5fc	39.7fc	35.6fc	32.2fc

