

Photometric Report

MAC One Softlens – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

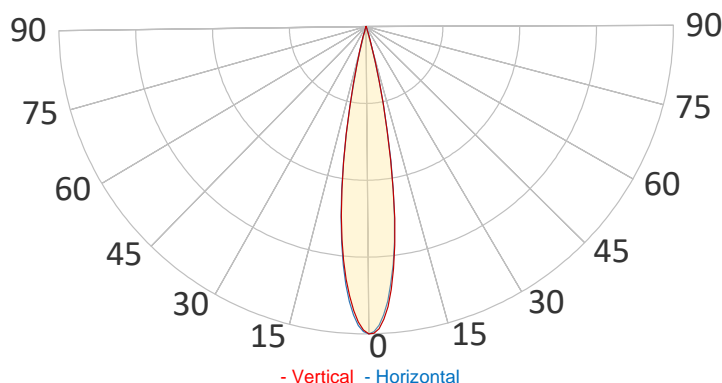
GENERAL SPECIFICATIONS

Total Fixture Output:	2400 lm
Light Engine Output:	5700 lm
Efficacy:	21 lm/W
Lens Option:	Softlens
Beam Angle (50%):	7,5-18,8°
Field Angle (10%):	13,1-28,9°
Cut-off Angle (3%):	17,3-34,1°
CRI:	77
CQS:	86
TM-30 Rf:	80
TM-30 Rg:	114
TLCI:	68
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

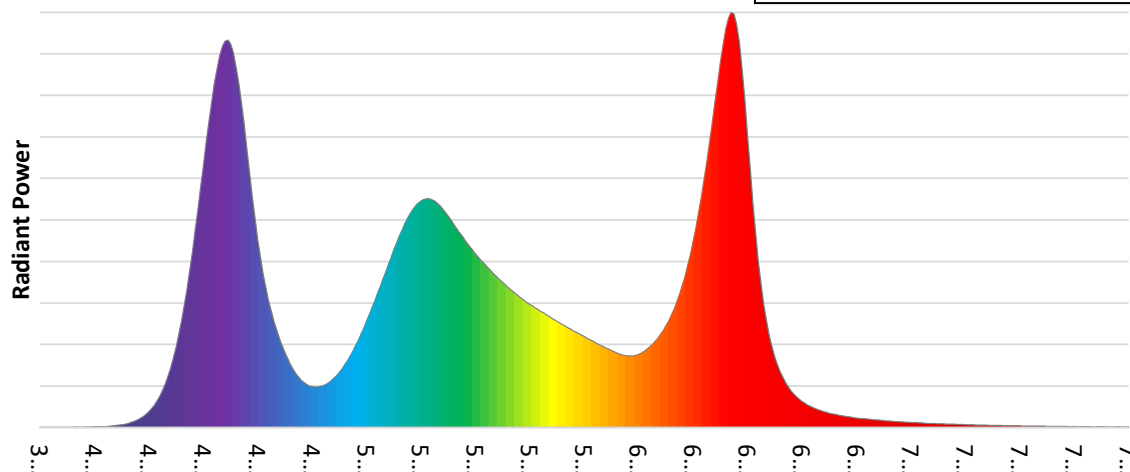


Catalog Number:	MAR-90250200HU
Measured Output:	2417 lm
Measured Peak:	22895 cd
Consumed Power:	117 W
Efficacy:	20,7 lm/W

Beam Angle (50%):	18.8°
Field Angle (10%):	28.9°
Cut-off Angle (3%):	34.1°

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

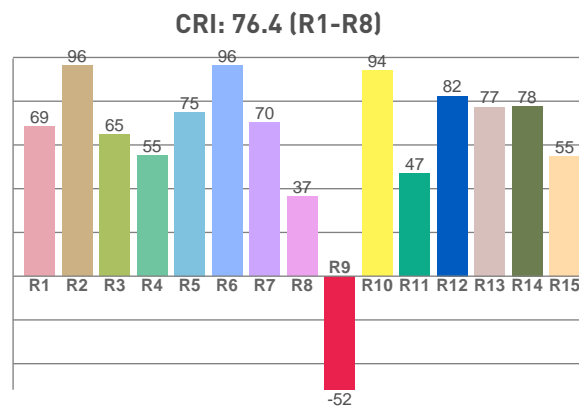
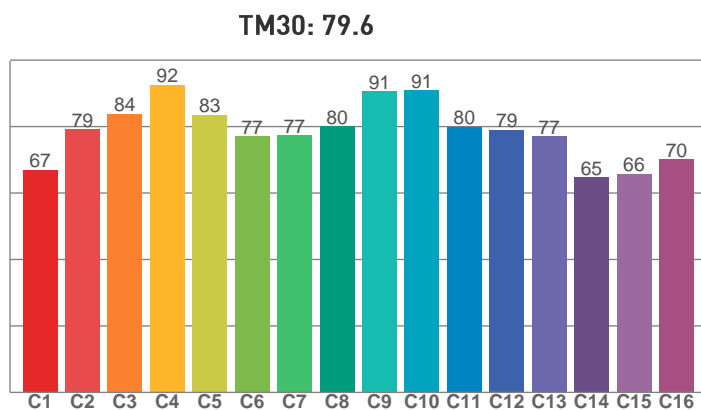
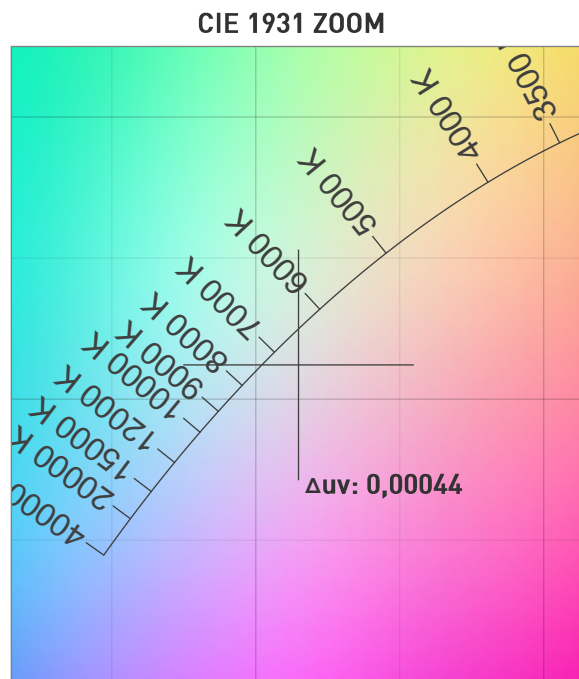
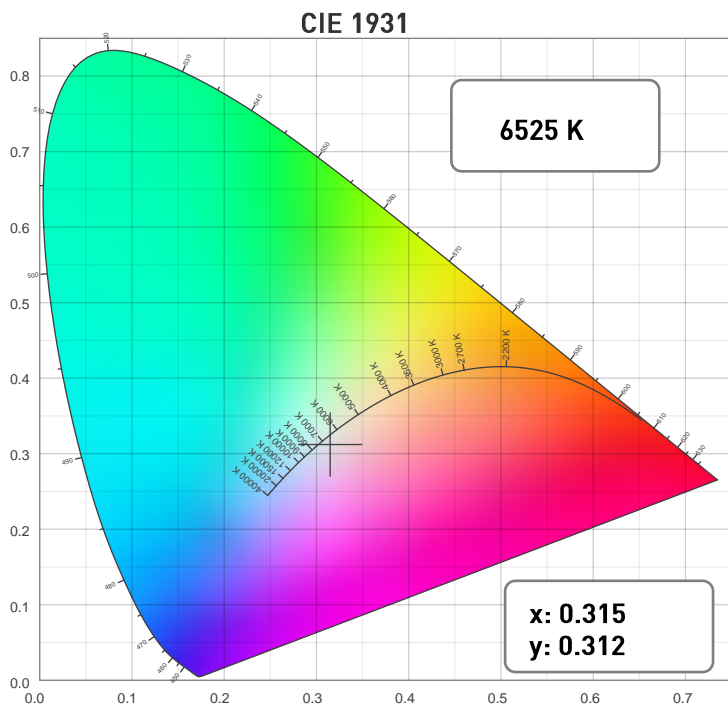
SPECTRAL DISTRIBUTION



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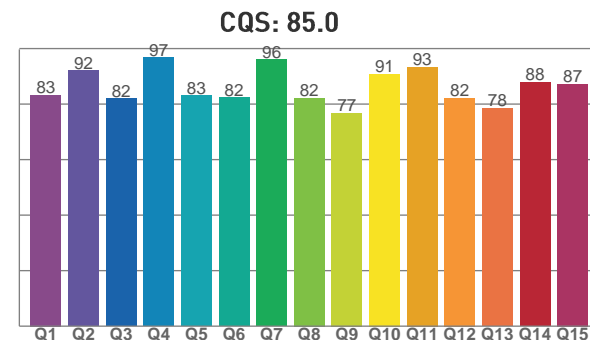
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6525 K	76.4	-51.9	79.6	118.7



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
68	85.0	0.315	0.312	0.206	0.306	0,00044

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TM30

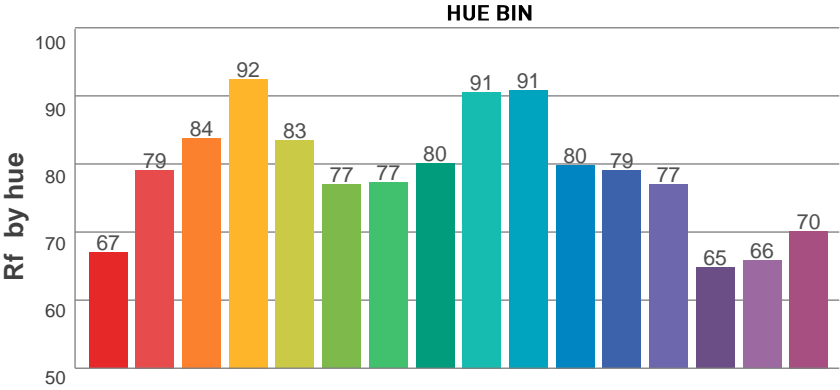
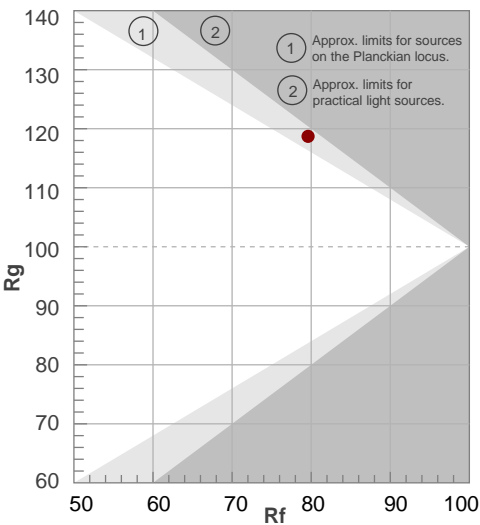
Rf 79.6

Fidelity index Rf

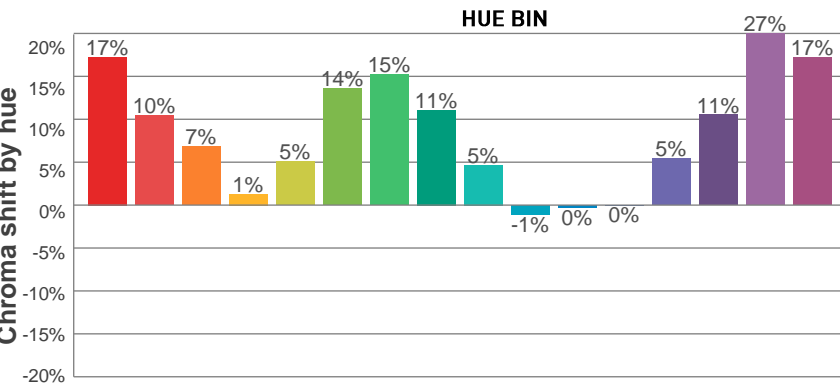
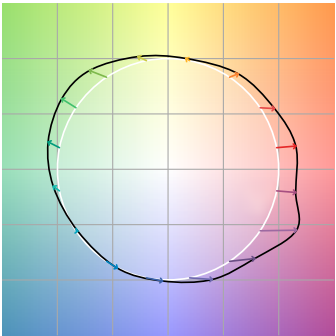
Rg 118.7

Gamut index Rg

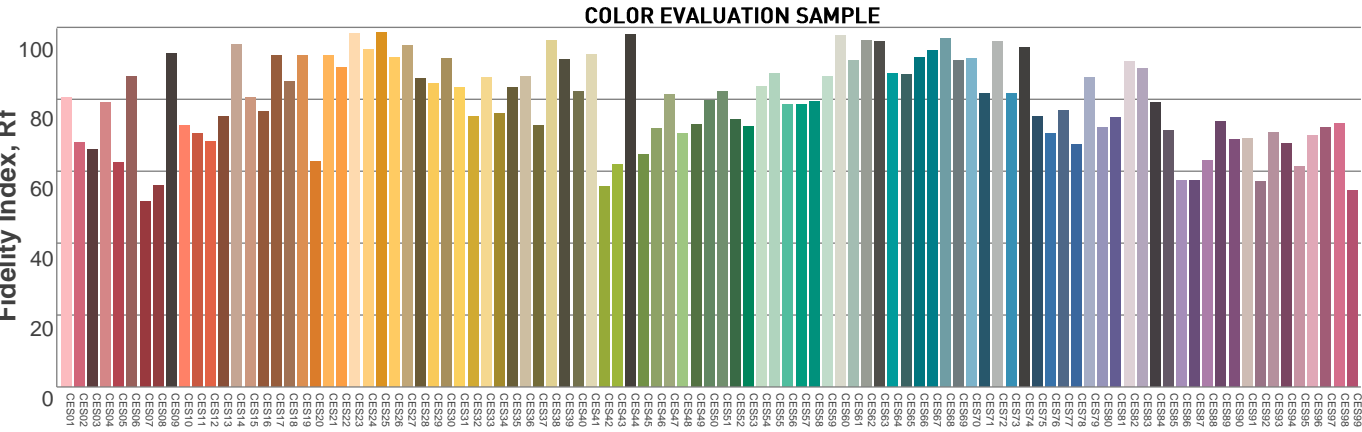
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	67	17%	-2%
2	79	10%	-8%
3	84	7%	-5%
4	92	1%	4%
5	83	5%	7%
6	77	14%	9%
7	77	15%	0%
8	80	11%	-3%
9	91	5%	-5%
10	91	-1%	1%
11	80	0%	11%
12	79	0%	15%
13	77	5%	20%
14	65	11%	20%
15	66	27%	19%
16	70	17%	2%



COLOR VECTOR GRAPHICS



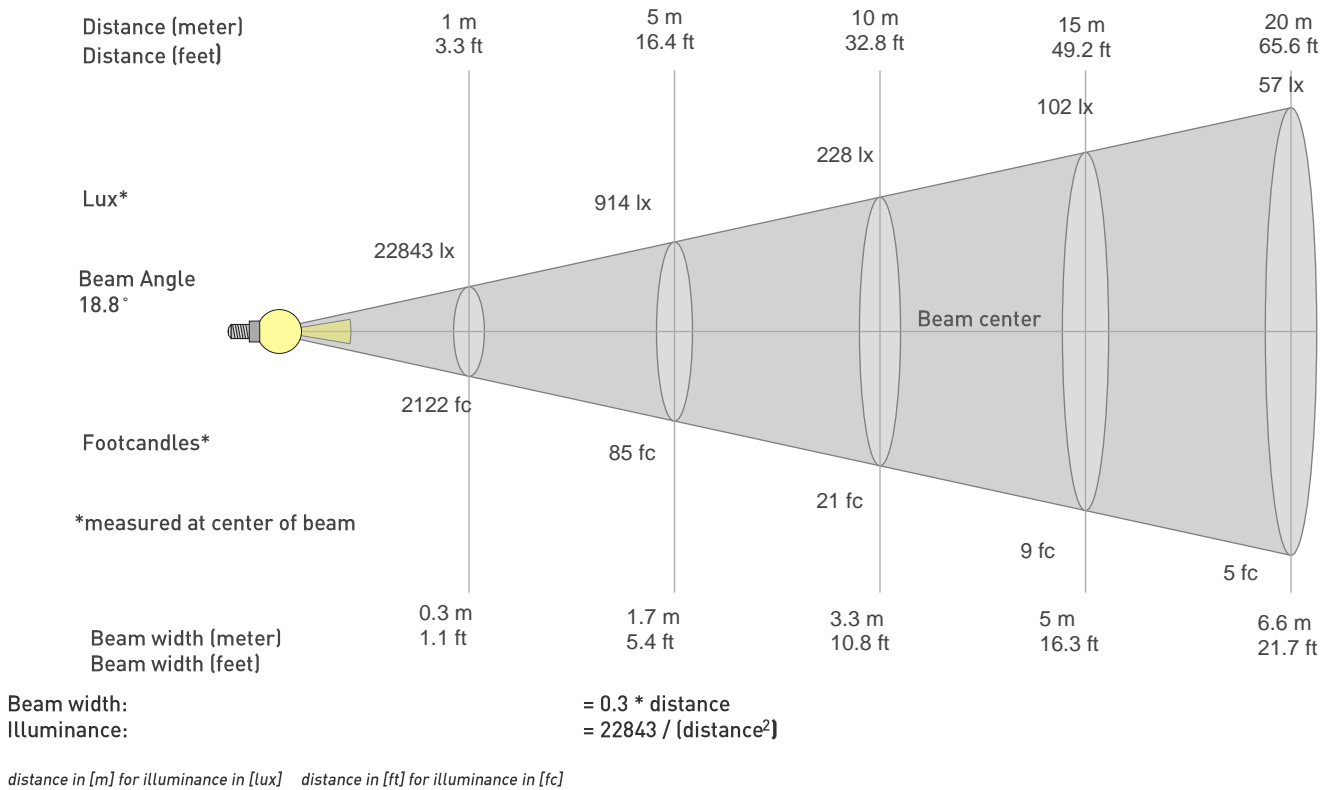
COLOR DISTORTION GRAPHICS



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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
22843lx	5711lx	2538lx	1428lx	914lx	635lx	466lx	357lx	282lx	228lx	189lx	159lx	135lx	117lx	102lx	89lx	79lx	71lx	63lx	57lx
2122.2fc	530.5fc	235.8fc	132.6fc	84.9fc	58.9fc	43.3fc	33.2fc	26.2fc	21.2fc	17.5fc	14.7fc	12.6fc	10.8fc	9.4fc	8.3fc	7.3fc	6.5fc	5.9fc	5.3fc

