

# Photometric Report

MAC One – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

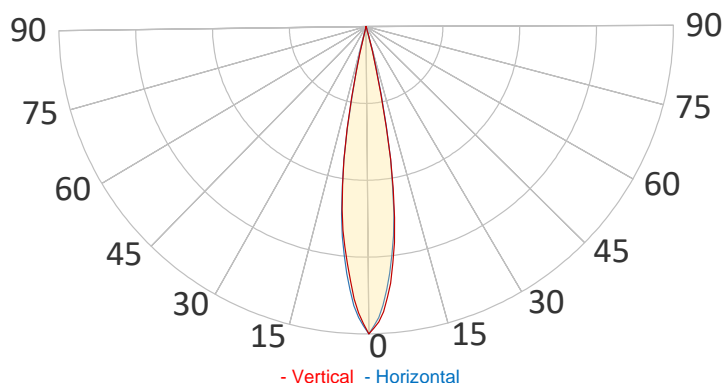
## GENERAL SPECIFICATIONS

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:	77
CQS:	86
TM-30 Rf:	80
TM-30 Rg:	114
TLCI:	68
Color Temperature:	6500 K



## SAMPLE MEASUREMENT

POLAR PLOT

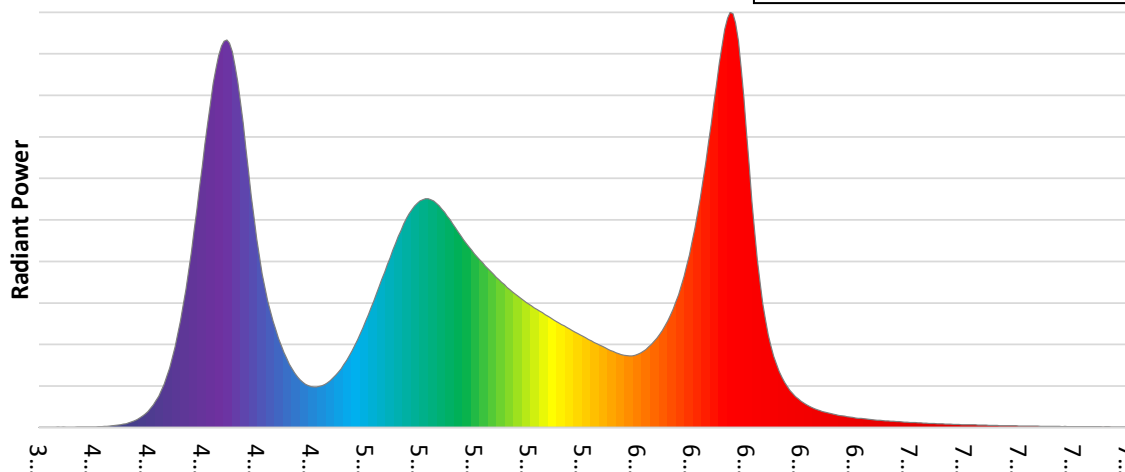


Catalog Number:	MAR-90250200HU
Measured Output:	2544 lm
Measured Peak:	28982 cd
Consumed Power:	117 W
Efficacy:	21,7 lm/W

Beam Angle (50%):	18.7°
Field Angle (10%):	26.5°
Cut-off Angle (3%):	29.8°

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

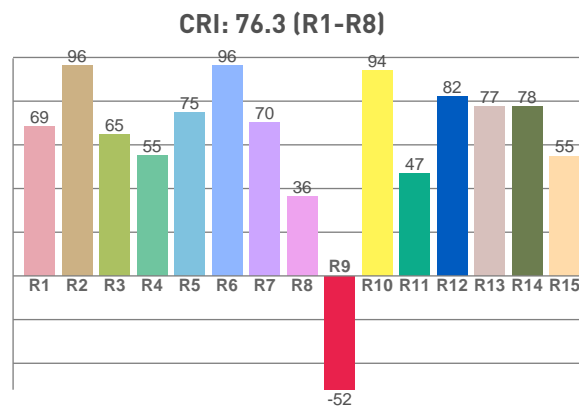
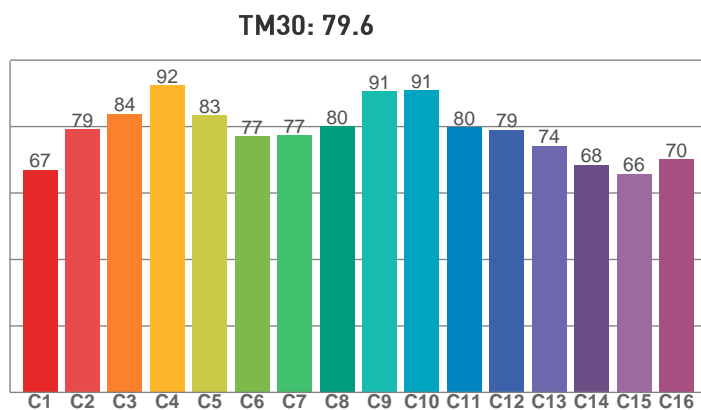
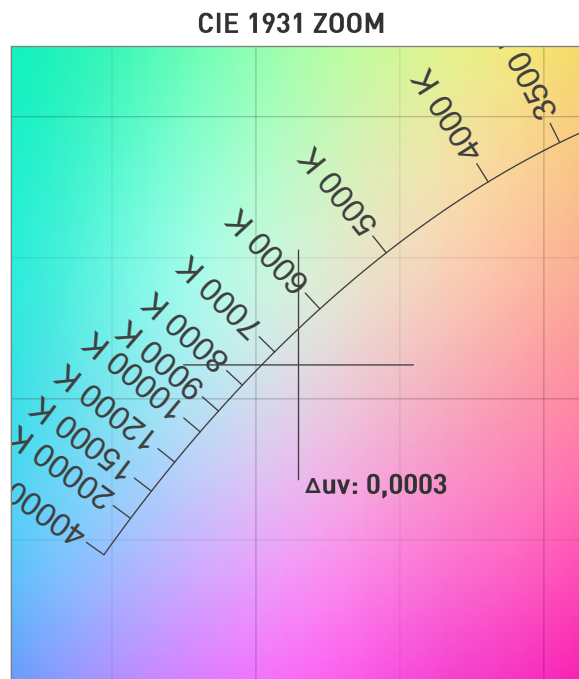
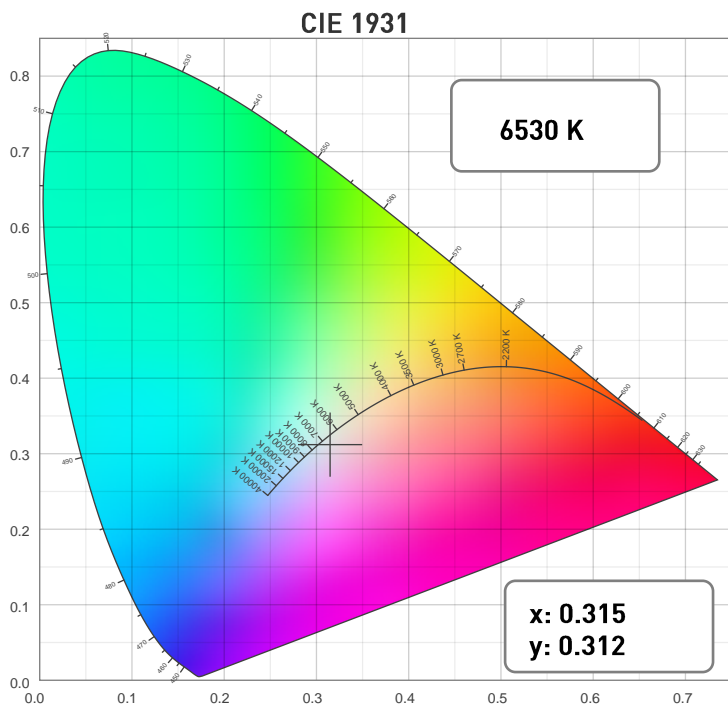
SPECTRAL DISTRIBUTION



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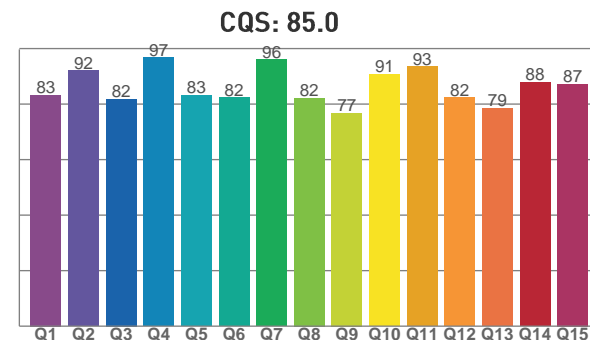
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6530 K	76.3	-52.1	79.6	118.4



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	$\Delta uv$
68	85.0	0.315	0.312	0.206	0.306	0,0003

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TM30

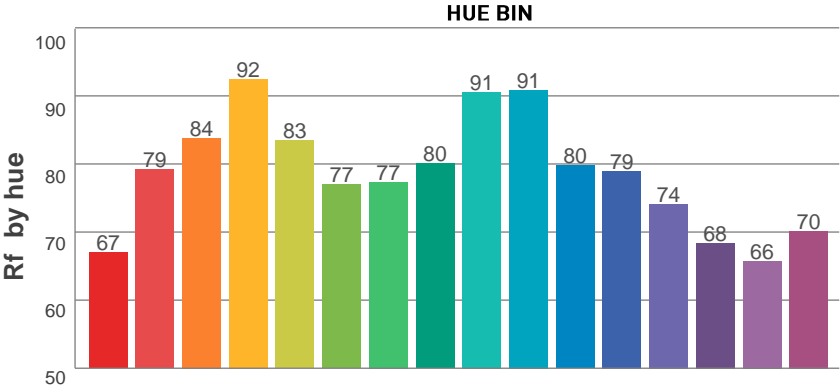
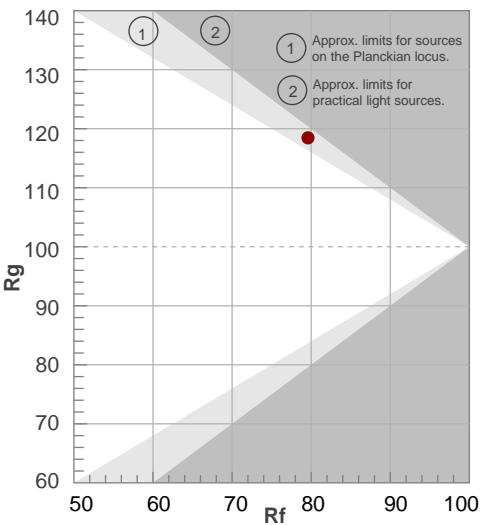
Rf 79.6

Fidelity index Rf

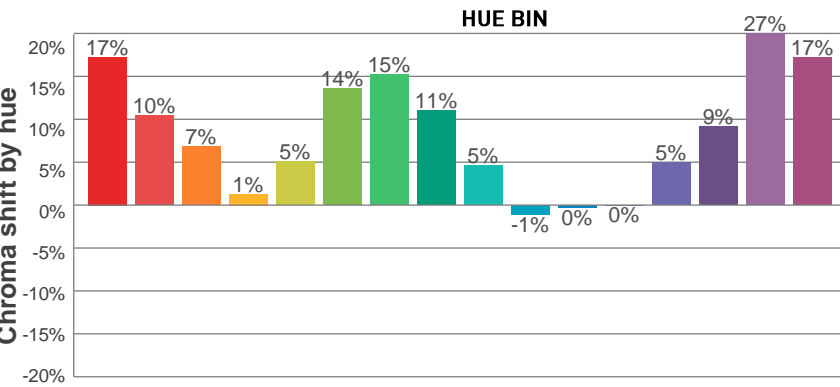
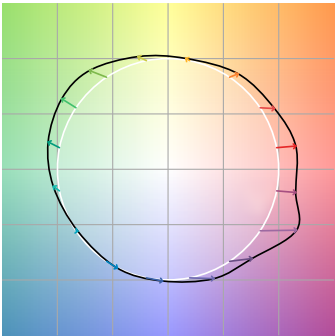
Rg 118.4

Gamut index Rg

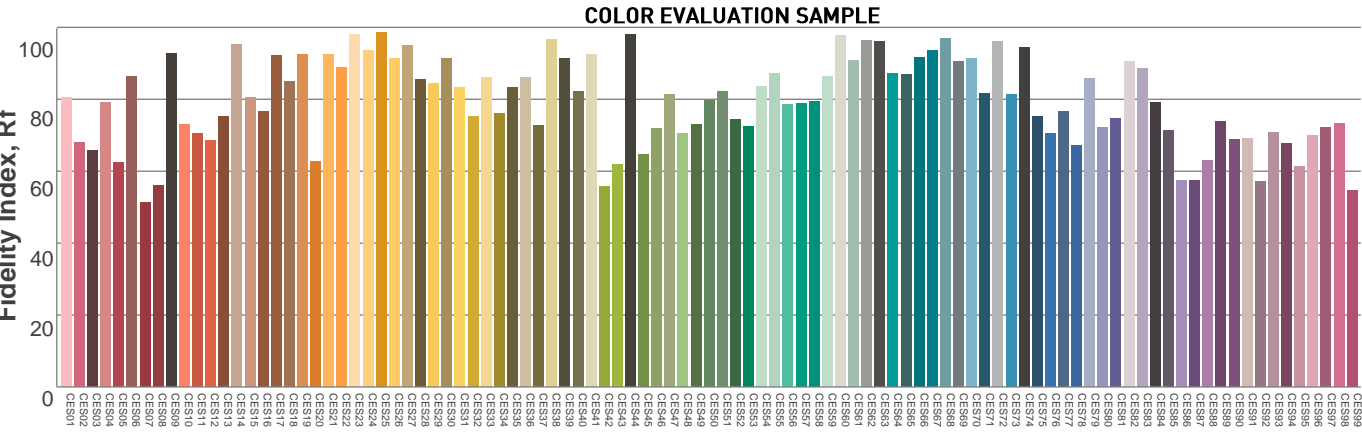
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	67	17%	-2%
2	79	10%	-8%
3	84	7%	-5%
4	92	1%	4%
5	83	5%	7%
6	77	14%	9%
7	77	15%	0%
8	80	11%	-3%
9	91	5%	-5%
10	91	-1%	1%
11	80	0%	12%
12	79	0%	15%
13	74	5%	21%
14	68	9%	18%
15	66	27%	19%
16	70	17%	2%



COLOR VECTOR GRAPHICS



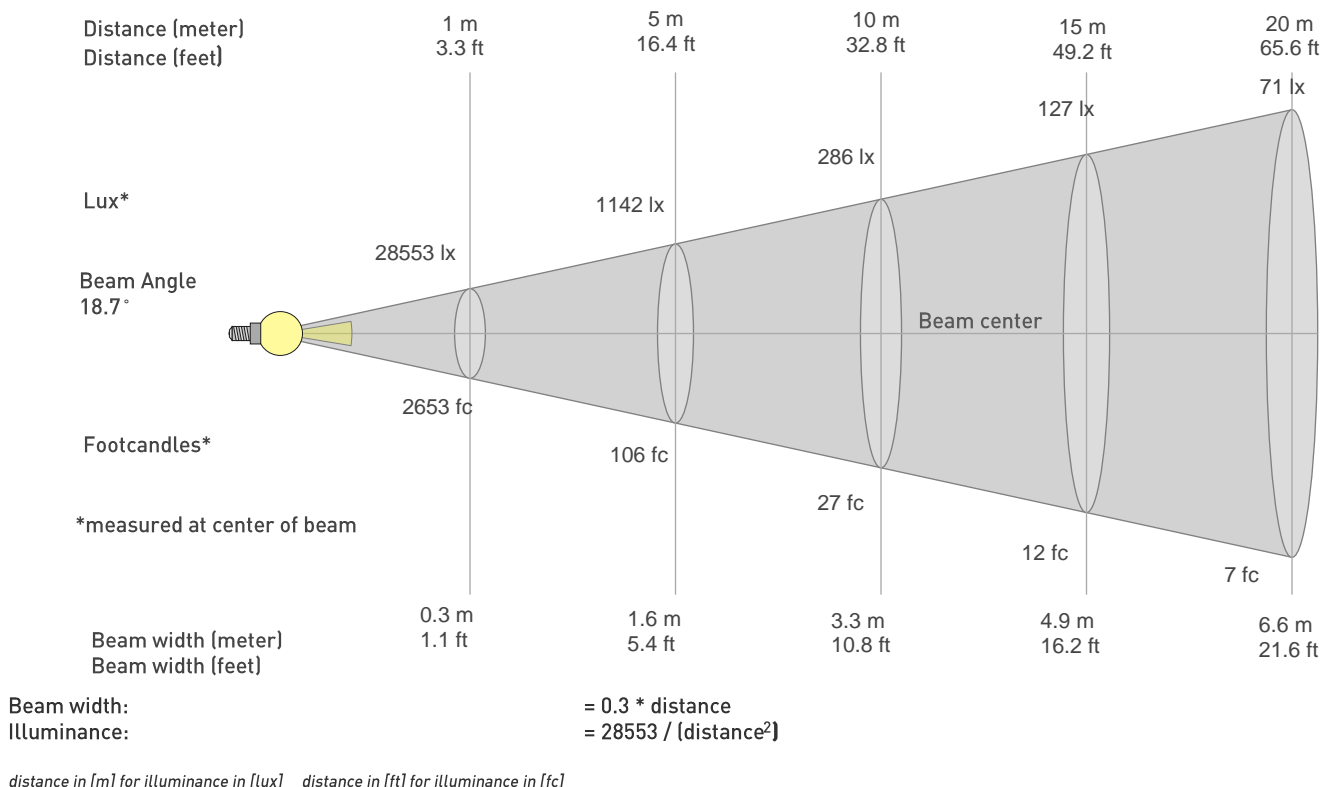
COLOR DISTORTION GRAPHICS



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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
28553lx	7138lx	3173lx	1785lx	1142lx	793lx	583lx	446lx	353lx	286lx	236lx	198lx	169lx	146lx	127lx	112lx	99lx	88lx	79lx	71lx
2652.7fc	663.2fc	294.7fc	165.8fc	106.1fc	73.7fc	54.1fc	41.4fc	32.7fc	26.5fc	21.9fc	18.4fc	15.7fc	13.5fc	11.8fc	10.4fc	9.2fc	8.2fc	7.3fc	6.6fc

