

Photometric Report

MAC One Softlens – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

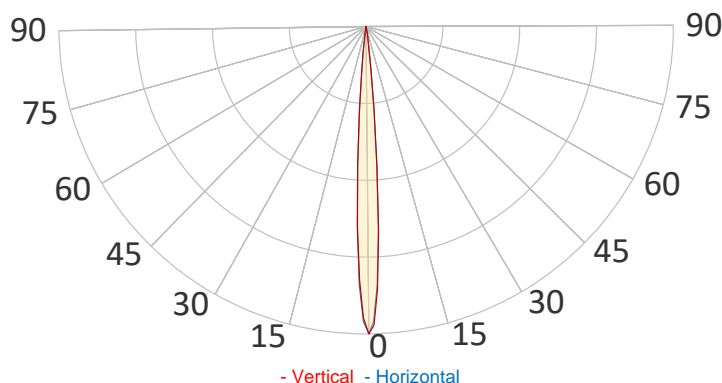
GENERAL SPECIFICATIONS

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:	76
CQS:	86
TM-30 Rf:	80
TM-30 Rg:	114
TLCI:	67
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

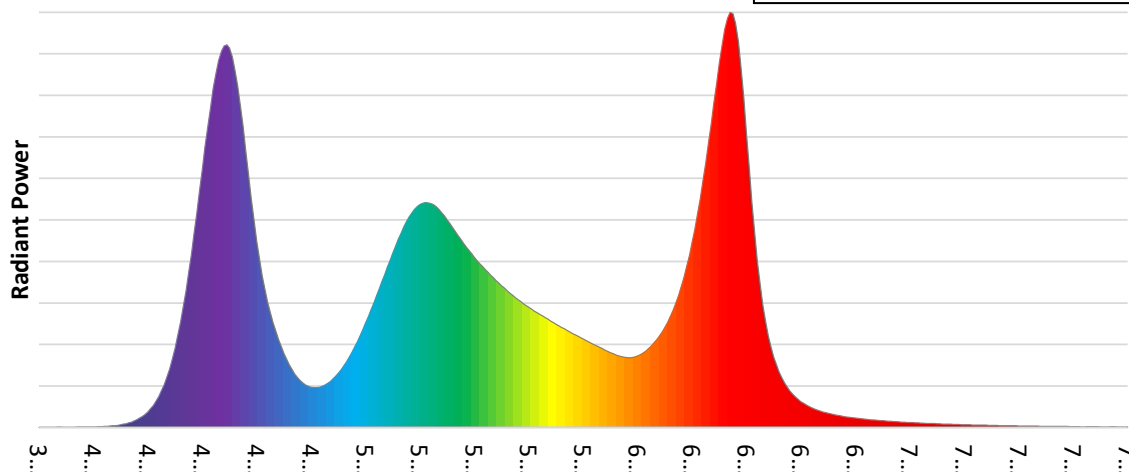


Catalog Number:	MAR-90250200HU
Measured Output:	1787 lm
Measured Peak:	86360 cd
Consumed Power:	117 W
Efficacy:	15,3 lm/W

Beam Angle (50%):	7.5°
Field Angle (10%):	13.1°
Cut-off Angle (3%):	17.3°

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

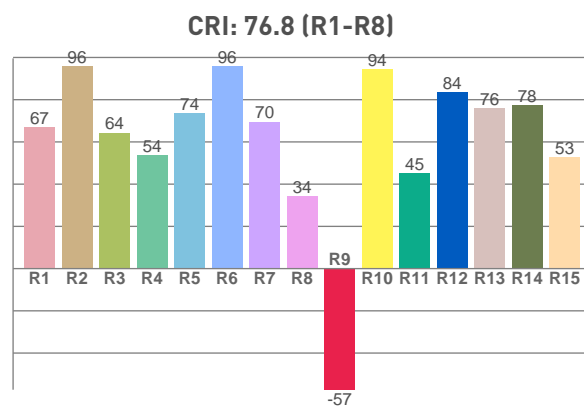
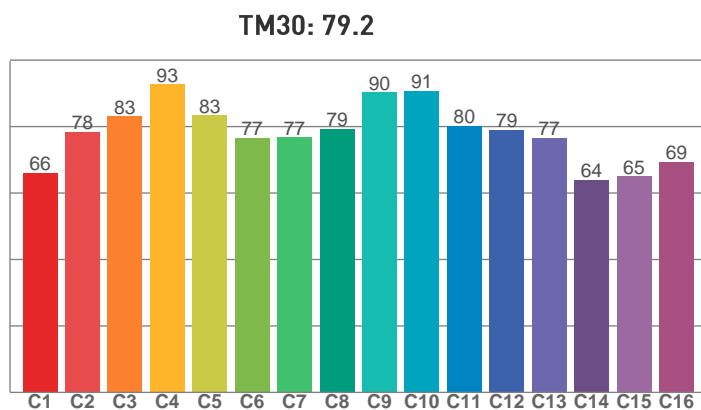
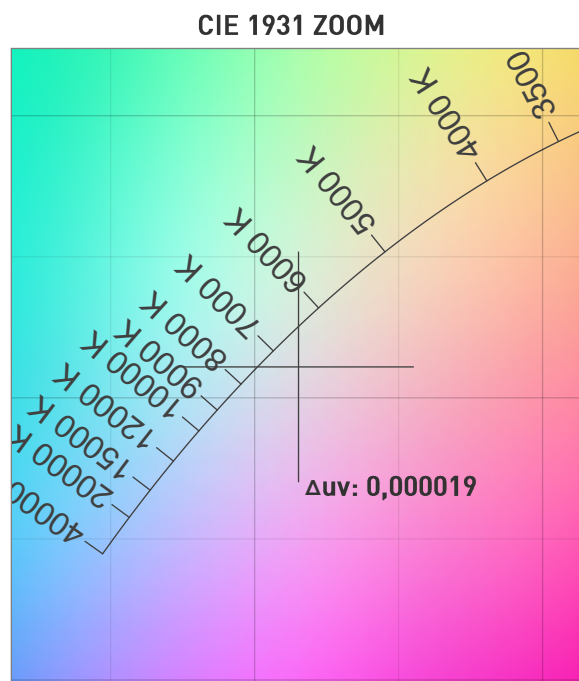
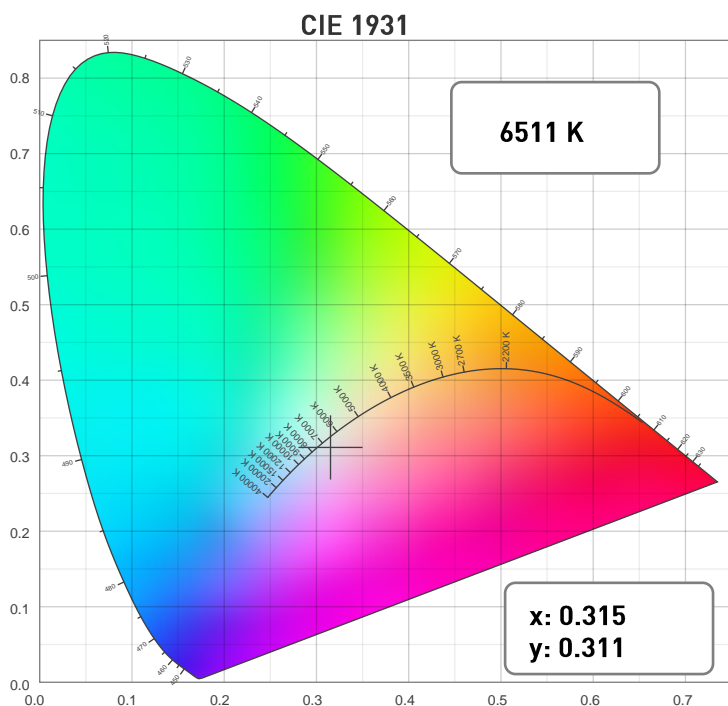
SPECTRAL DISTRIBUTION



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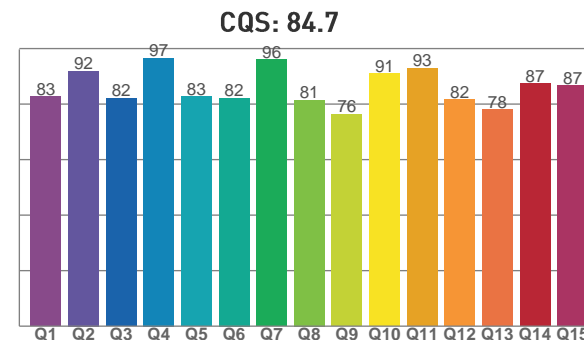
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6511 K	76.8	-57.4	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	0,000019

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TM30

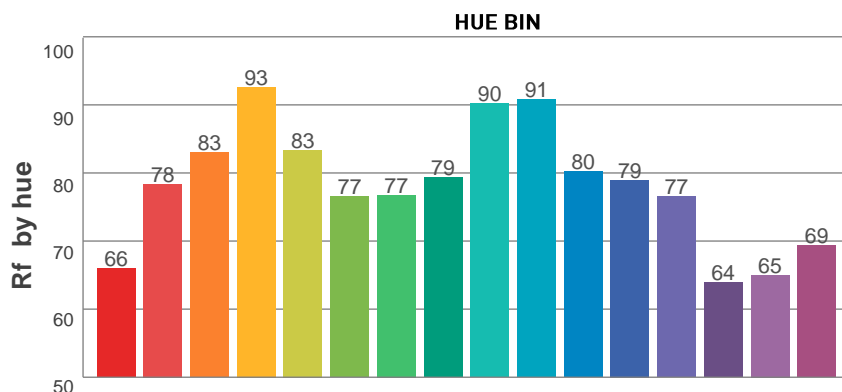
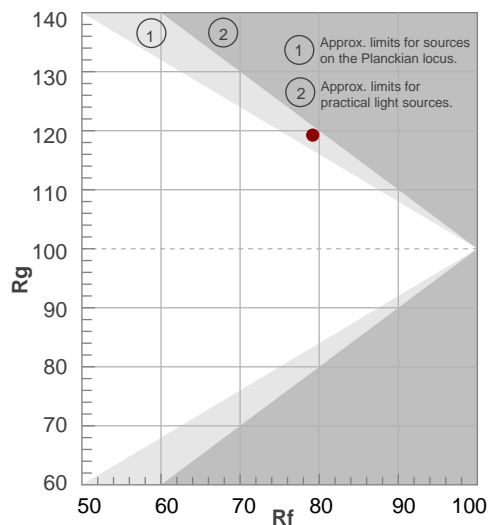
Rf 79.2

Fidelity index Rf

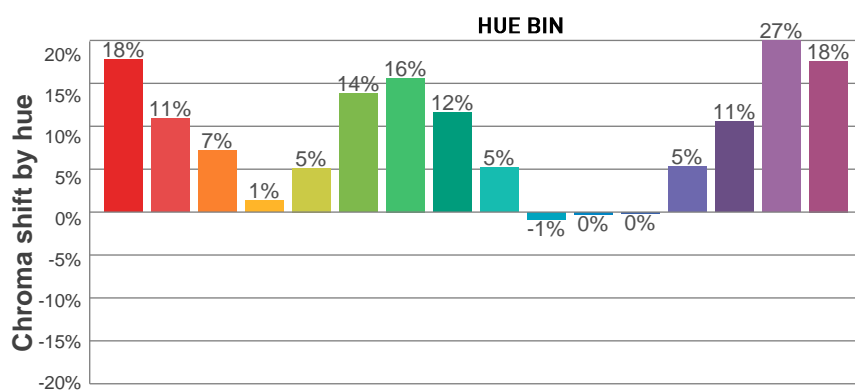
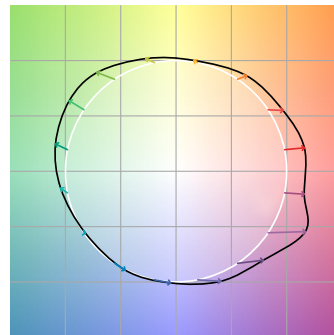
Rg 119.3

Gamut index Rg

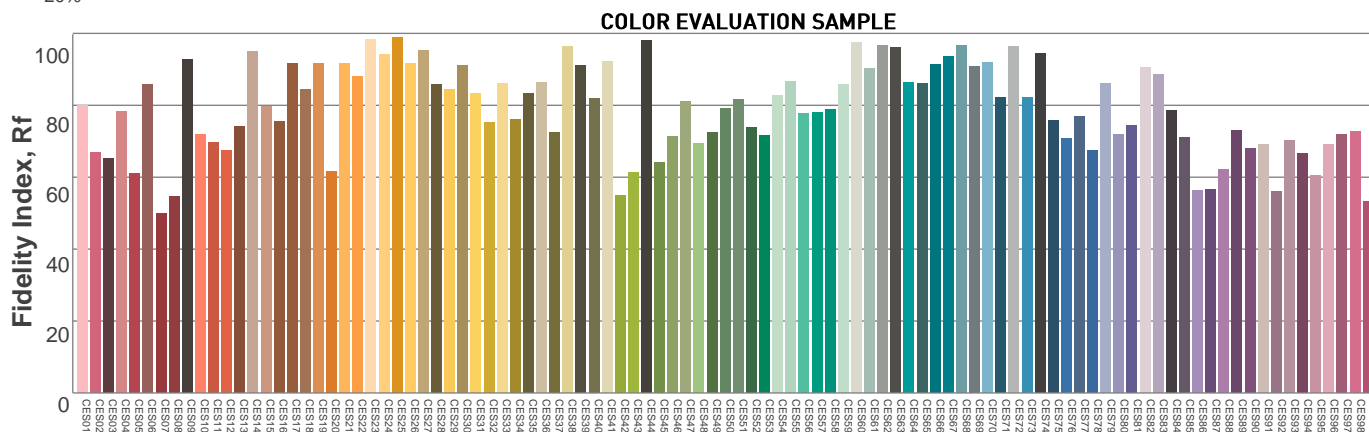
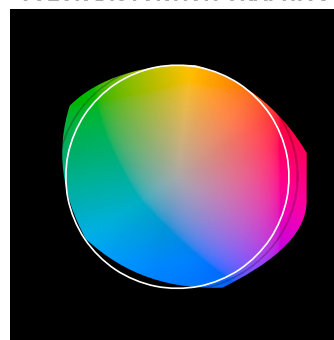
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	66	18%	-2%
2	78	11%	-8%
3	83	7%	-5%
4	93	1%	4%
5	83	5%	7%
6	77	14%	10%
7	77	16%	1%
8	79	12%	-3%
9	90	5%	-5%
10	91	-1%	1%
11	80	0%	11%
12	79	0%	15%
13	77	5%	20%
14	64	11%	21%
15	65	27%	20%
16	69	18%	2%



COLOR VECTOR GRAPHICS



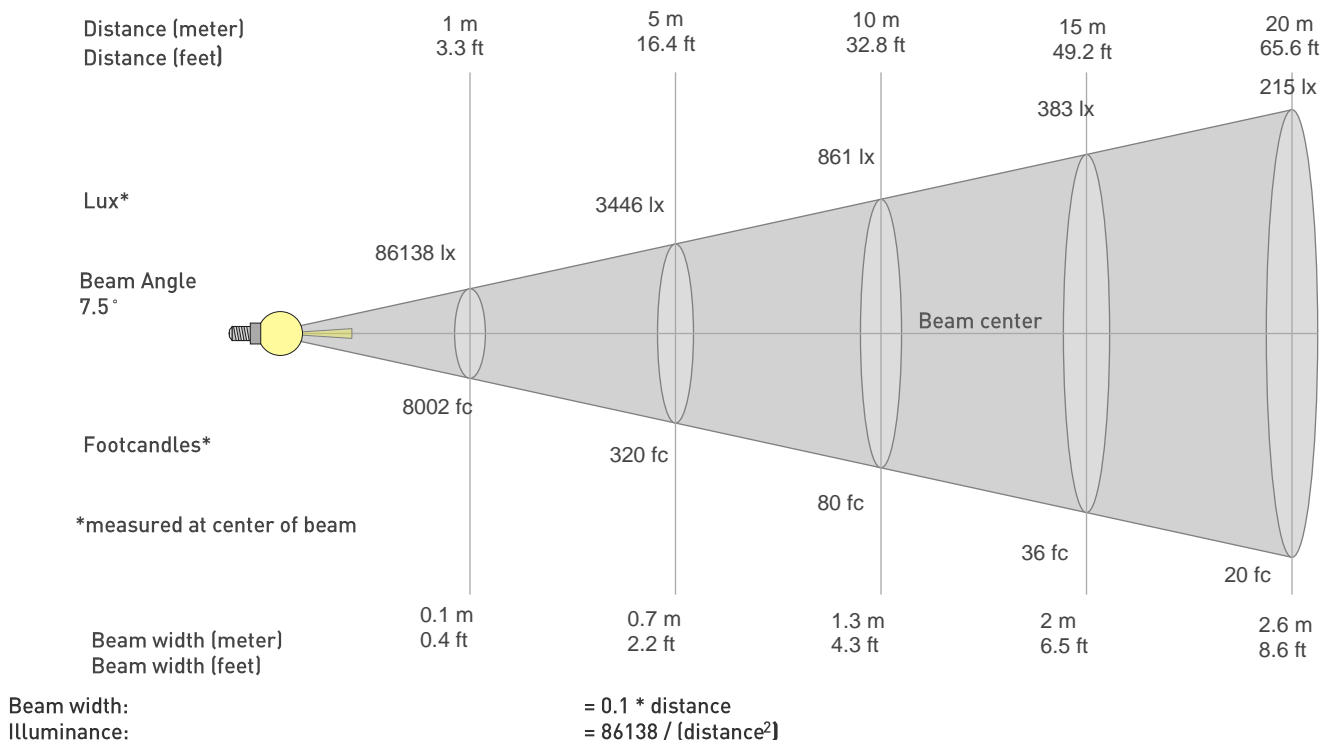
COLOR DISTORTION GRAPHICS



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BEAM DETAILS



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
86138lx	21535lx	9571lx	5384lx	3446lx	2393lx	1758lx	1346lx	1063lx	861lx	712lx	598lx	510lx	439lx	383lx	336lx	298lx	266lx	239lx	215lx
8002.5fc	2000.6fc	889.2fc	500.2fc	320.1fc	222.3fc	163.3fc	125fc	98.8fc	80fc	66.1fc	55.6fc	47.4fc	40.8fc	35.6fc	31.3fc	27.7fc	24.7fc	22.2fc	20fc

