

Photometric Report

MAC One Softlens – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

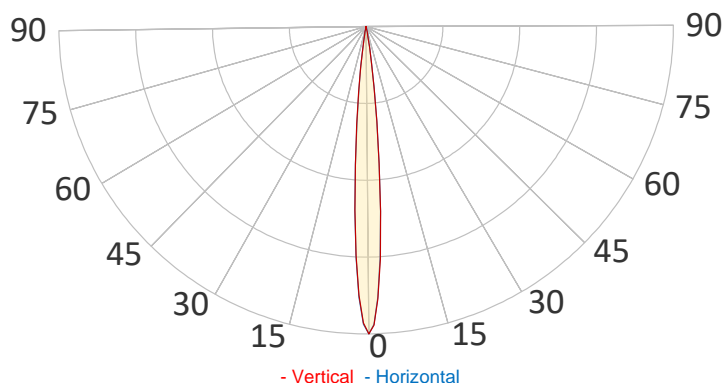
GENERAL SPECIFICATIONS

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:	68
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

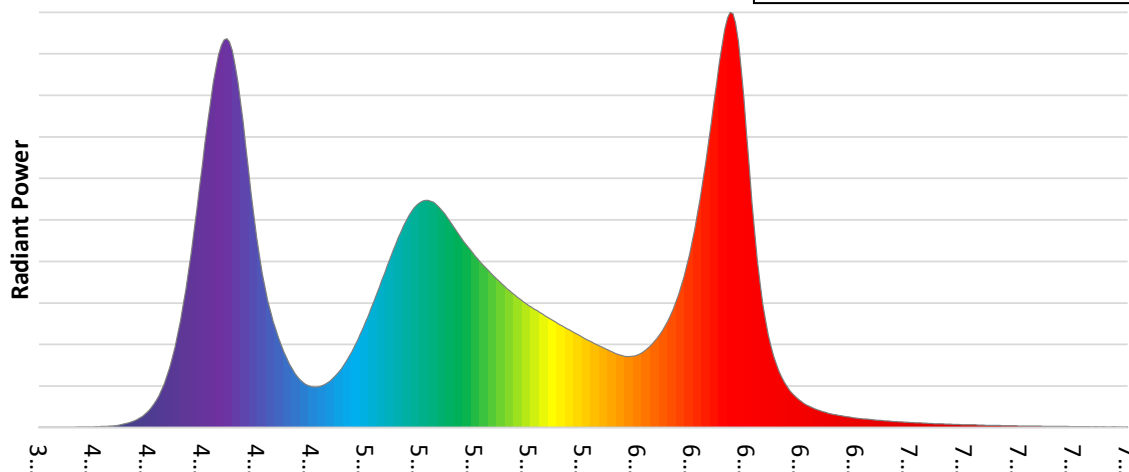


Catalog Number:	MAR-90250200HU
Measured Output:	2165 lm
Measured Peak:	67985 cd
Consumed Power:	117 W
Efficacy:	18,5 lm/W

Beam Angle (50%):	9.3°
Field Angle (10%):	16.9°
Cut-off Angle (3%):	21.6°

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

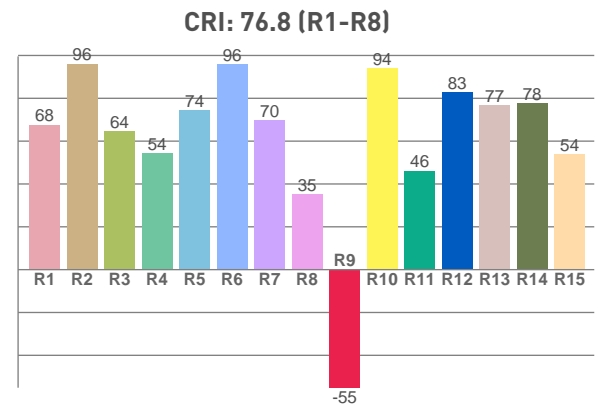
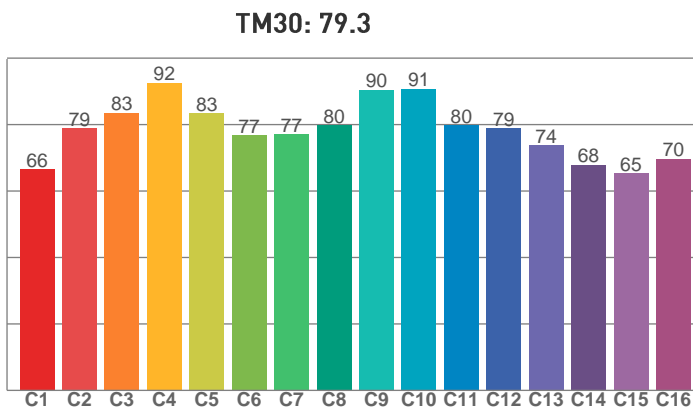
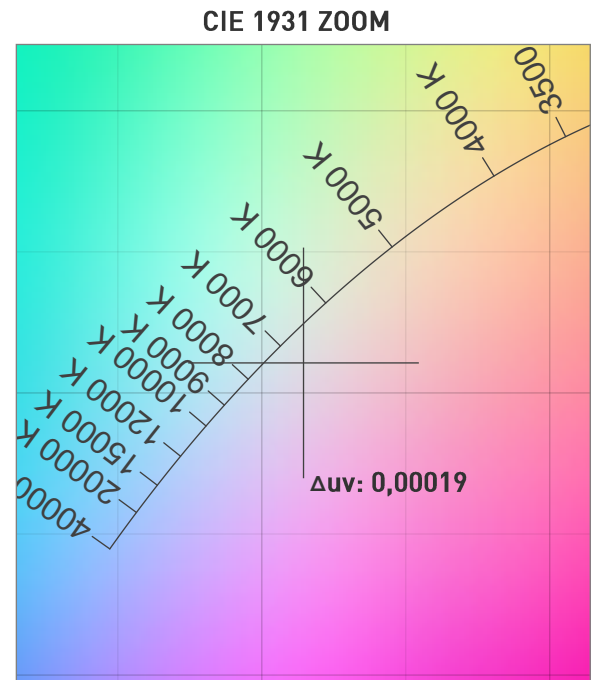
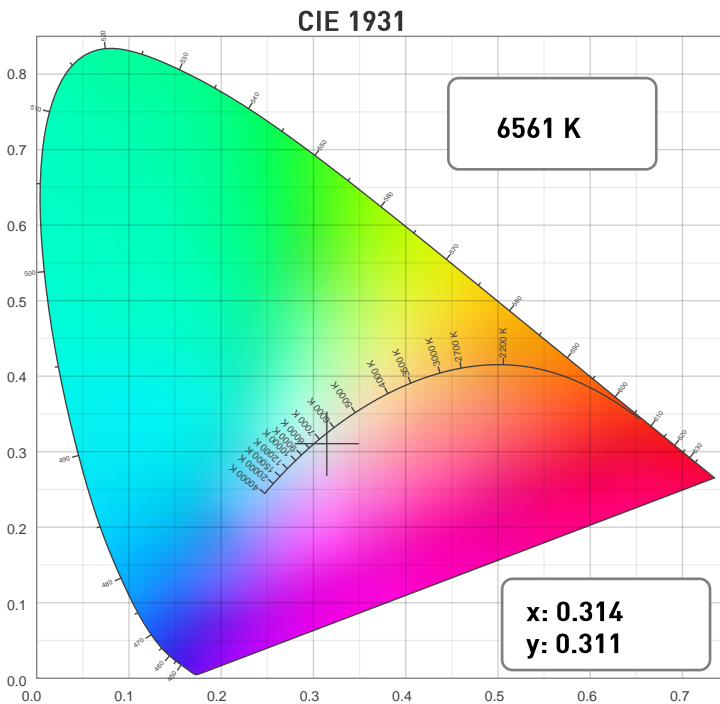
SPECTRAL DISTRIBUTION



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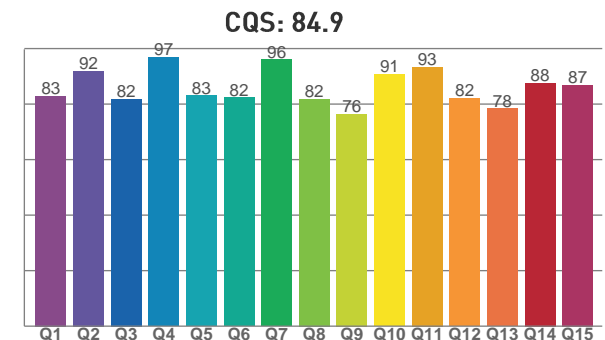
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6561 K	76.8	-55.1	79.3	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	84.9	0.314	0.311	0.206	0.306	0,00019

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TM30

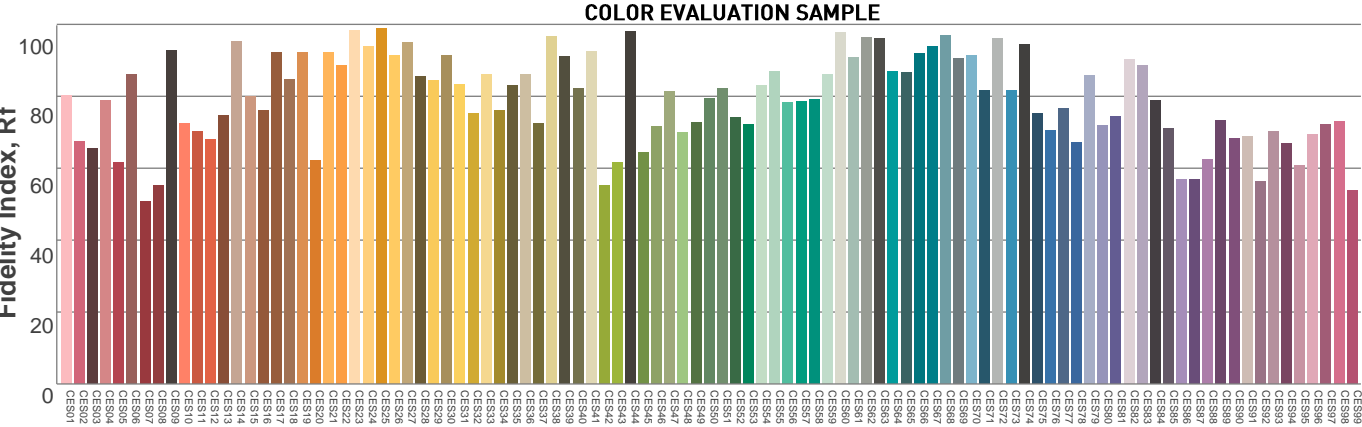
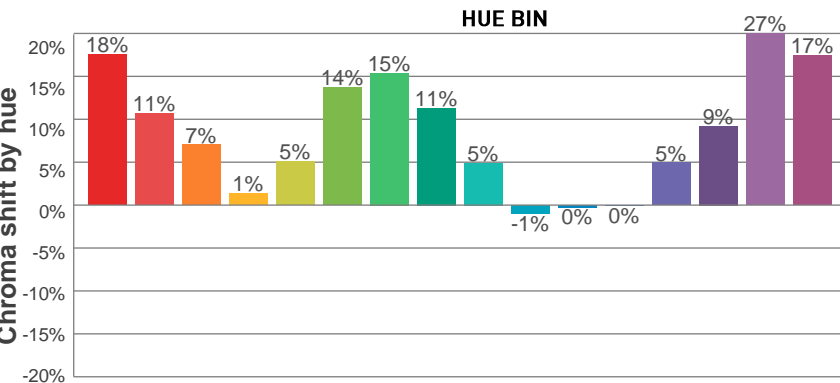
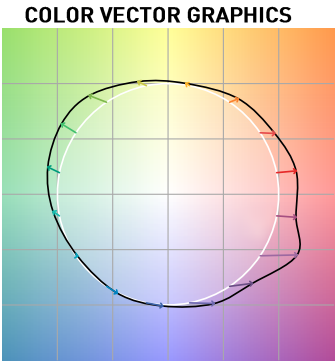
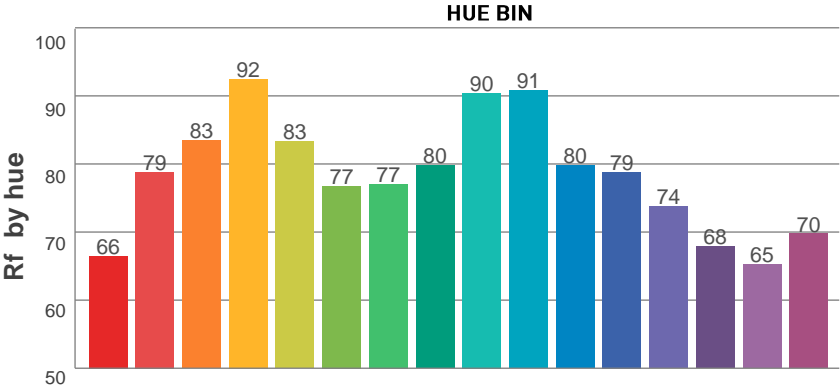
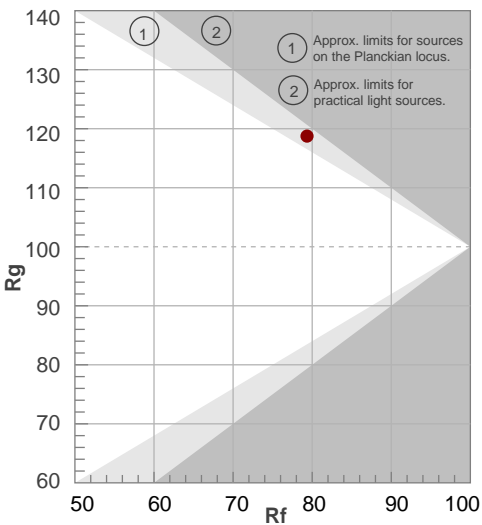
Rf 79.3

Fidelity index Rf

Rg 118.7

Gamut index Rg

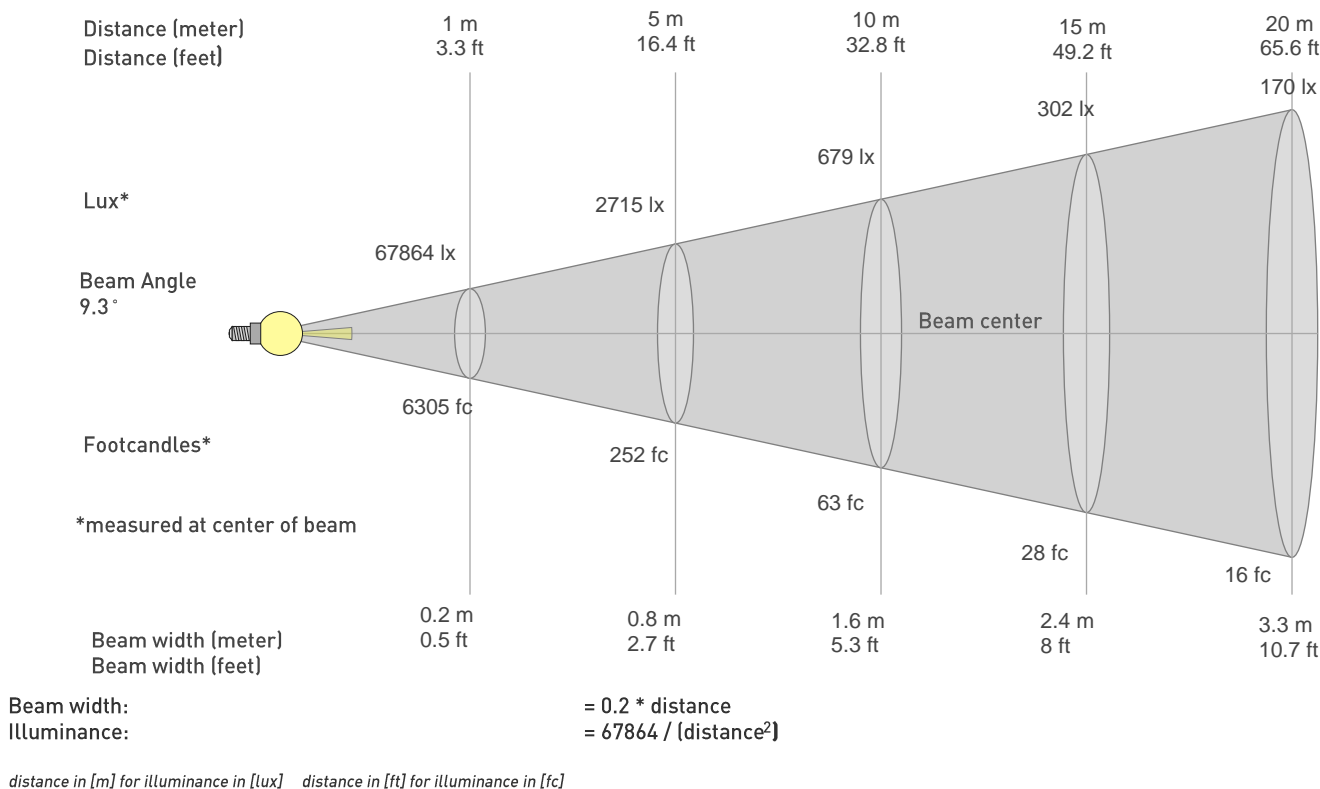
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	66	18%	-2%
2	79	11%	-8%
3	83	7%	-5%
4	92	1%	4%
5	83	5%	7%
6	77	14%	10%
7	77	15%	1%
8	80	11%	-3%
9	90	5%	-5%
10	91	-1%	1%
11	80	0%	12%
12	79	0%	15%
13	74	5%	22%
14	68	9%	19%
15	65	27%	19%
16	70	17%	2%



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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
67864lx	16966lx	7540lx	4241lx	2715lx	1885lx	1385lx	1060lx	838lx	679lx	561lx	471lx	402lx	346lx	302lx	265lx	235lx	209lx	188lx	170lx
6304.8fc	1576.2fc	700.5fc	394fc	252.2fc	175.1fc	128.7fc	98.5fc	77.8fc	63fc	52.1fc	43.8fc	37.3fc	32.2fc	28fc	24.6fc	21.8fc	19.5fc	17.5fc	15.8fc

