

# Photometric Report

MAC Encore Two With Spectral Enhancement Filter – 10 Degree

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

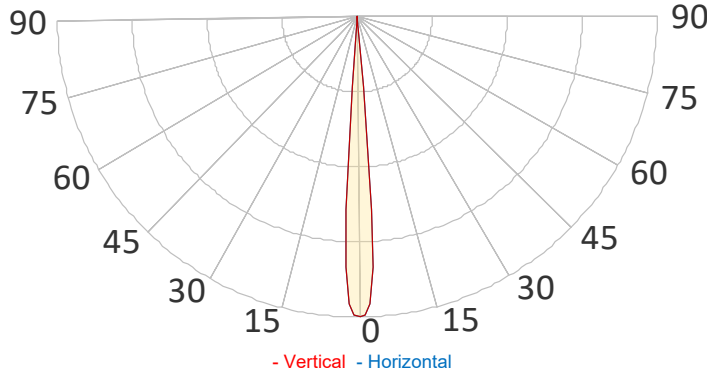
## GENERAL SPECIFICATIONS

Total Fixture Output:	13600 lm
Light Engine Output:	57000 lm
Efficacy:	15.9 lm/W
Lens Option:	N/A
Beam Angle (50%):	5.1-51.9°
Field Angle (10%):	5.7-53.6°
Cut-off Angle (3%):	5.9-53.9°
CRI:	95 (+/-3)
TM-30 Rf:	95 (+/-3)
TM-30 Rg:	100 (+/-3)
TLCI:	95 (+/-3)
Color Temperature:	5600K (+/-300K)



## SAMPLE MEASUREMENT

POLAR PLOT

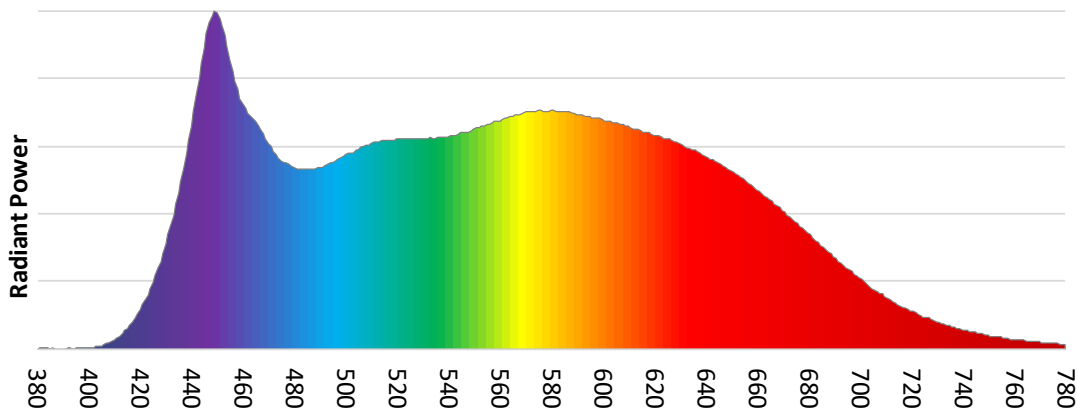


Catalog Number:	MAR-90250600HU
Measured Output:	12203 lm
Measured Peak:	635071 cd
Consumed Power:	856 W
Efficacy:	14.3 lm/W

Beam Angle (50%):	9.1°
Field Angle (10%):	11.2°
Cut-off Angle (3%):	11.8°

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

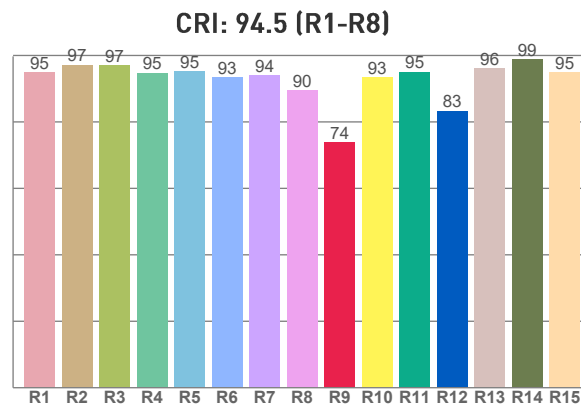
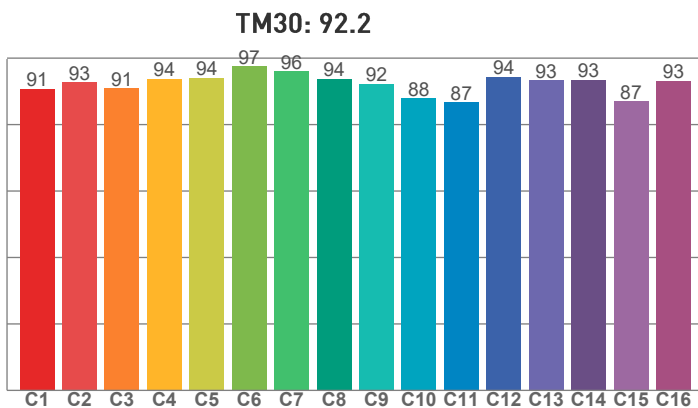
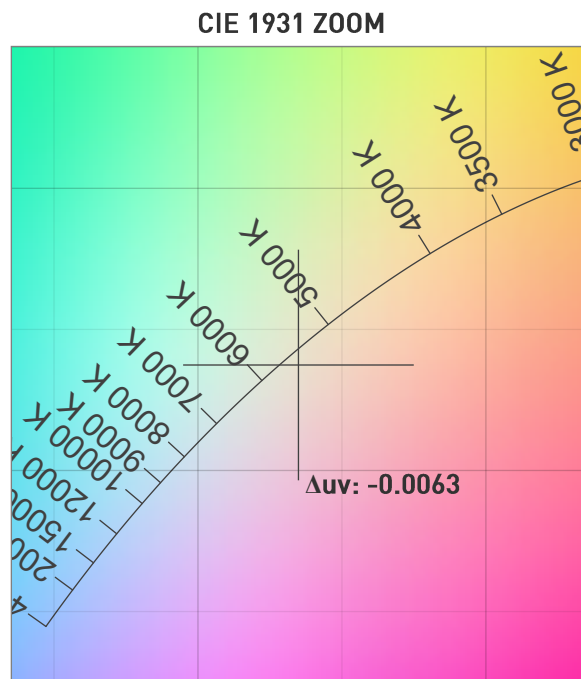
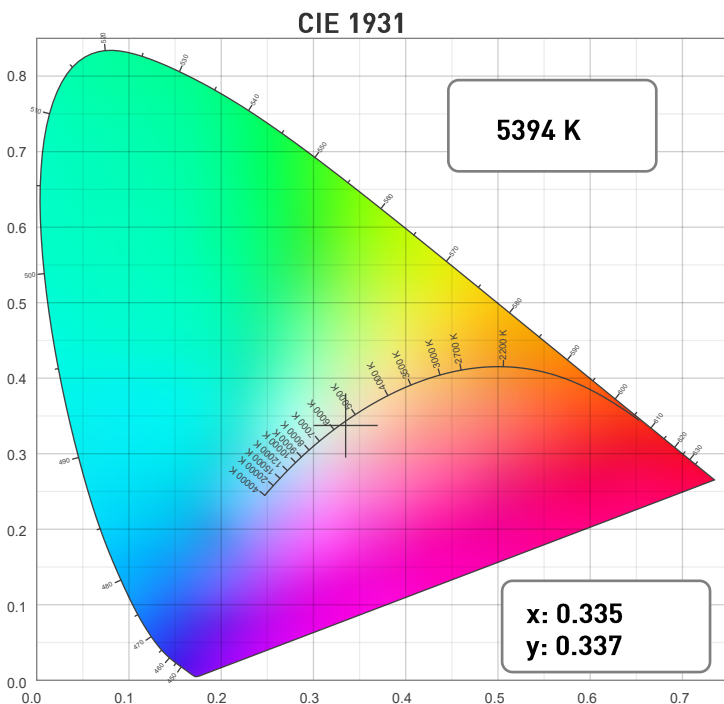
SPECTRAL DISTRIBUTION



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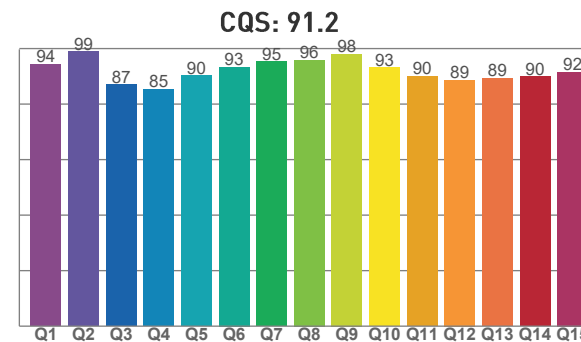
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5394 K	94.5	73.9	92.2	99.7



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
96	91.2	0.335	0.337	0.210	0.317	-0.0063

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TM30

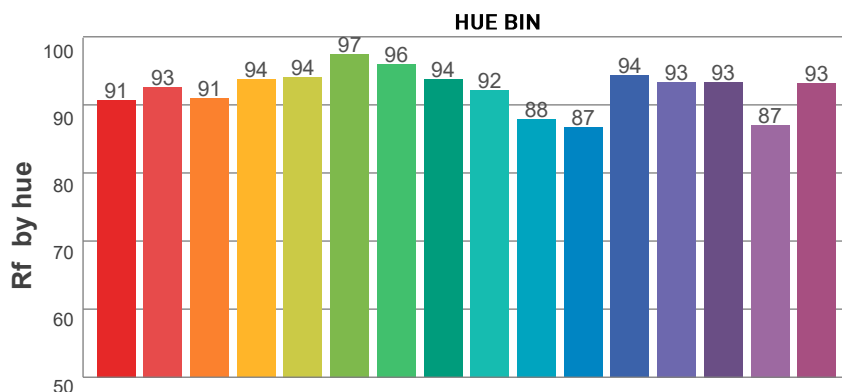
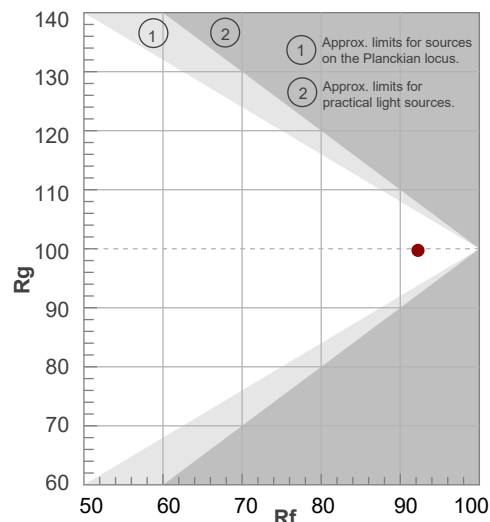
Rf 92.2

Fidelity index Rf

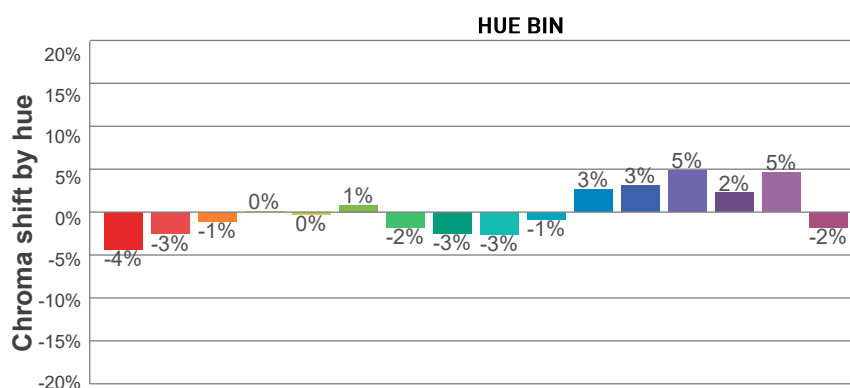
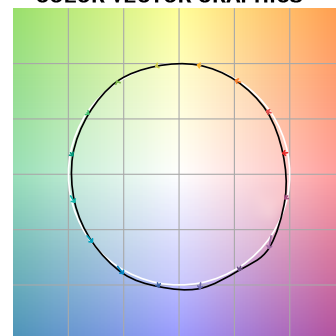
Rg 99.7

Gamut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	0%
2	93	-3%	3%
3	91	-1%	5%
4	94	0%	3%
5	94	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-3%	2%
9	92	-3%	6%
10	88	-1%	7%
11	87	3%	8%
12	94	3%	2%
13	93	5%	-2%
14	93	2%	-3%
15	87	5%	-10%
16	93	-2%	-3%



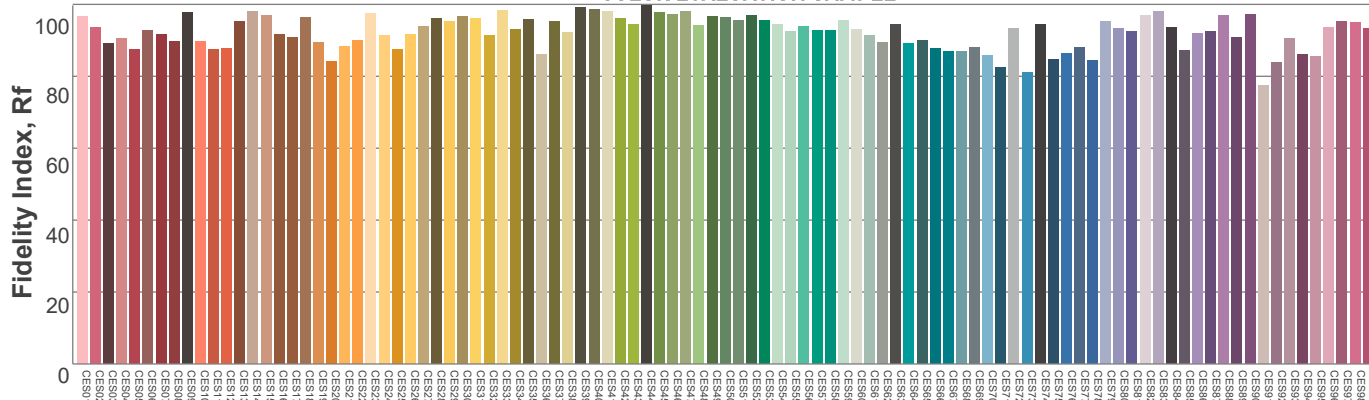
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



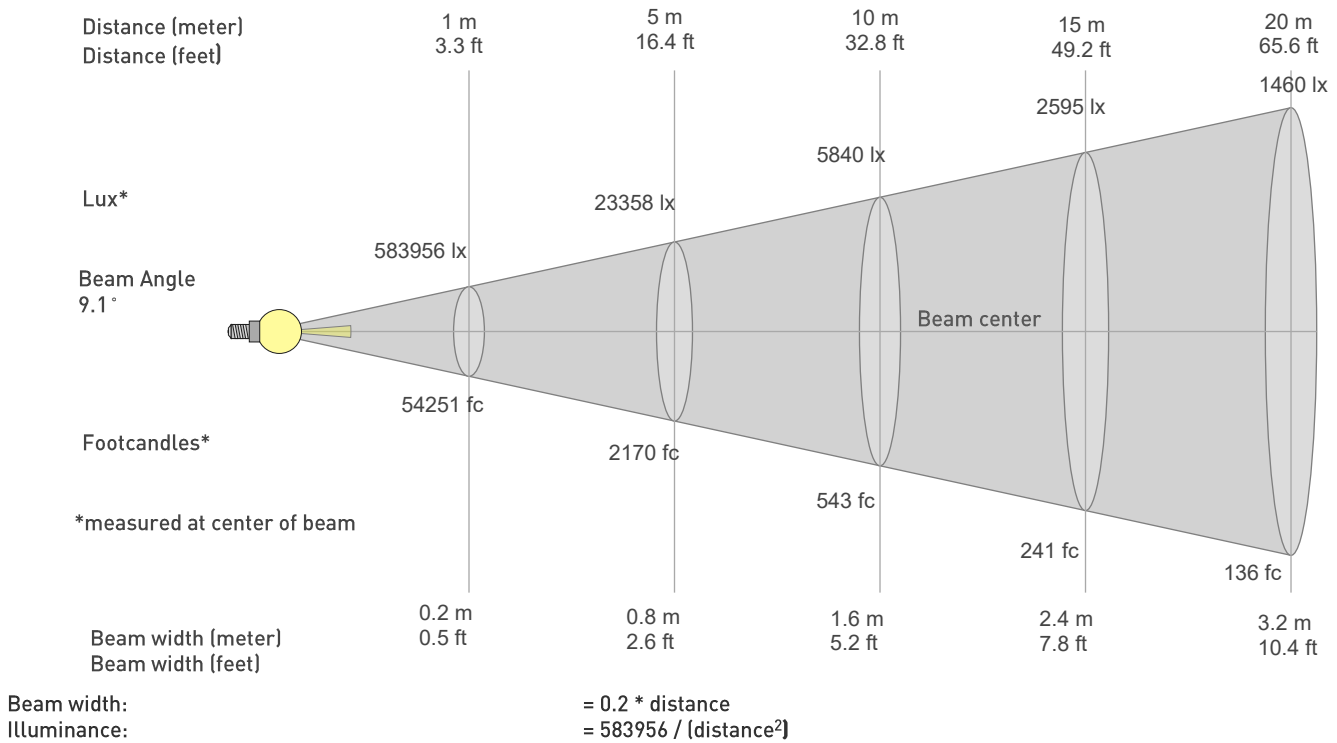
COLOR EVALUATION SAMPLE



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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
583956lx	145989lx	64884lx	36497lx	23358lx	16221lx	11917lx	9124lx	7209lx	5840lx	4826lx	4055lx	3455lx	2979lx	2595lx	2281lx	2021lx	1802lx	1618lx	1460lx
54251.3fc	13562.8fc	6027.9fc	3390.7fc	2170.1fc	1507fc	1107.2fc	847.7fc	669.8fc	542.5fc	448.4fc	376.7fc	321fc	276.8fc	241.1fc	211.9fc	187.7fc	167.4fc	150.3fc	135.6fc

