

# Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

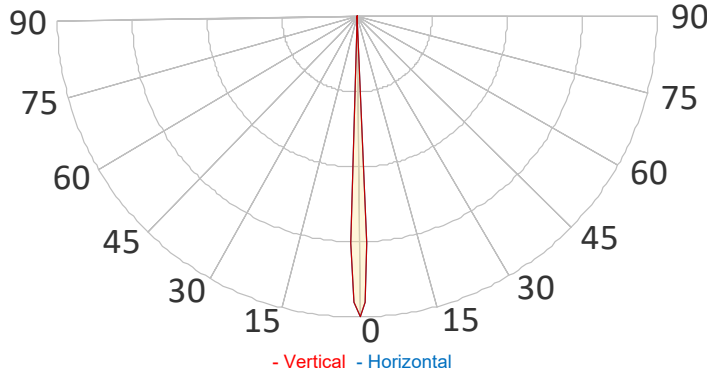
## GENERAL SPECIFICATIONS

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

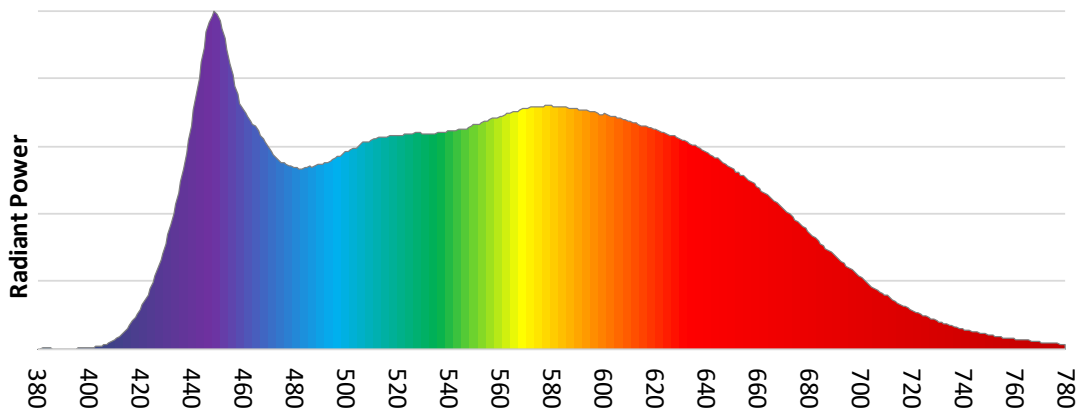


Catalog Number:	MAR-90250600HU
Measured Output:	7469 lm
Measured Peak:	1203263 cd
Consumed Power:	737 W
Efficacy:	10.1 lm/W

Beam Angle (50%):	5.1°
Field Angle (10%):	5.7°
Cut-off Angle (3%):	5.9°

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

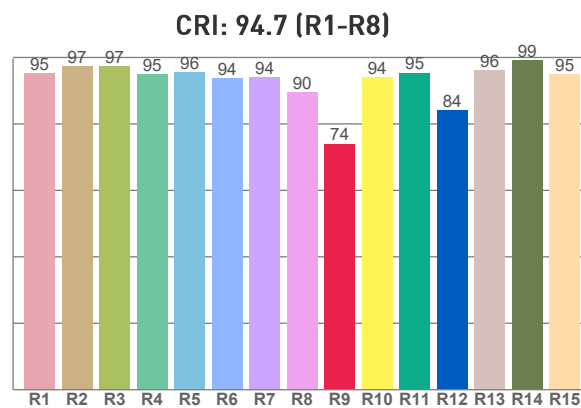
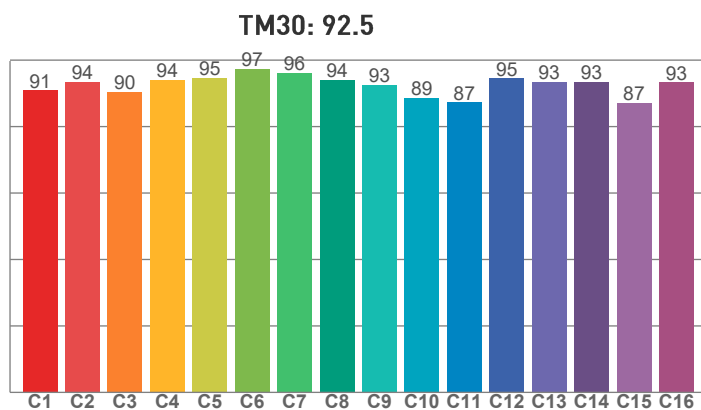
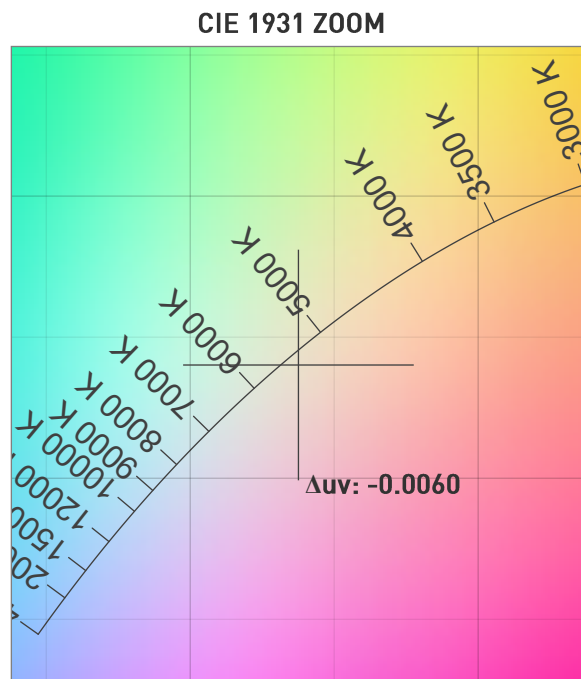
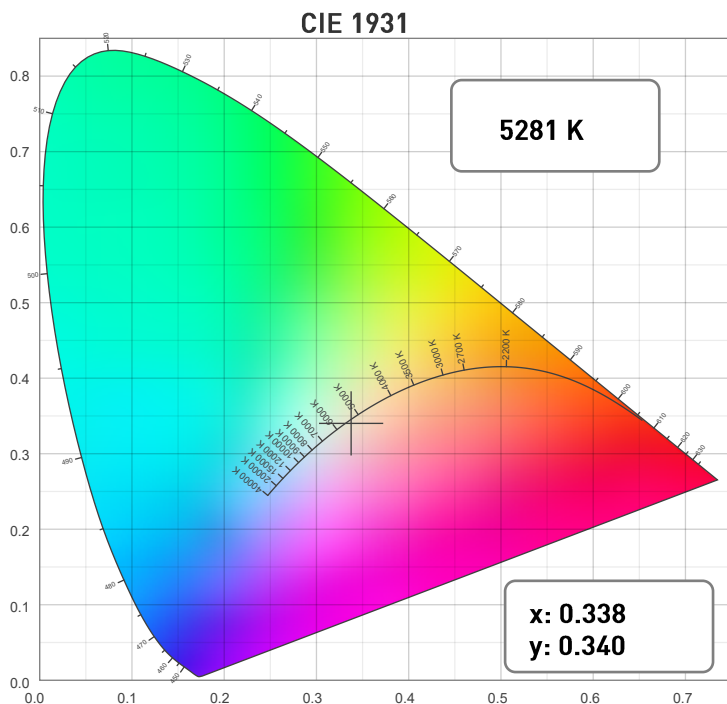
SPECTRAL DISTRIBUTION



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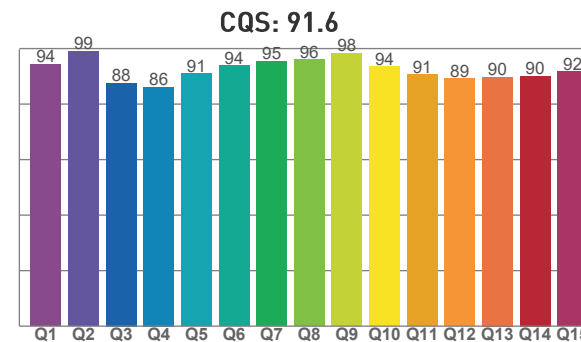
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5281 K	94.7	74.0	92.5	99.8



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	91.6	0.338	0.340	0.211	0.319	-0.0060

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# TM30

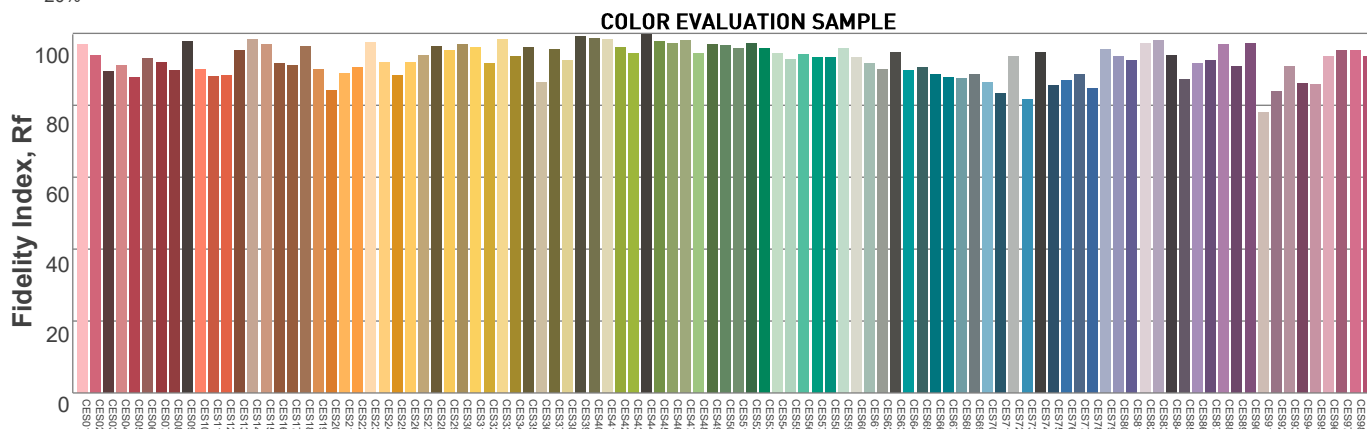
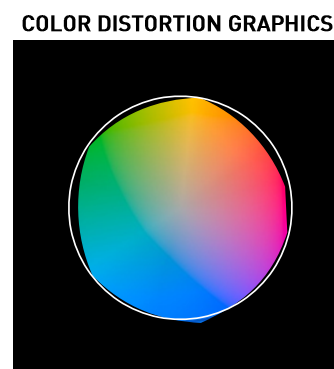
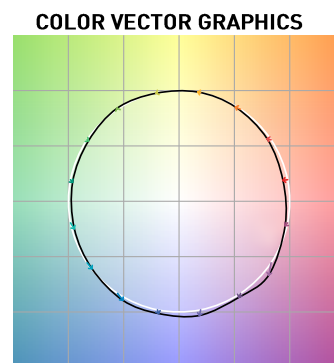
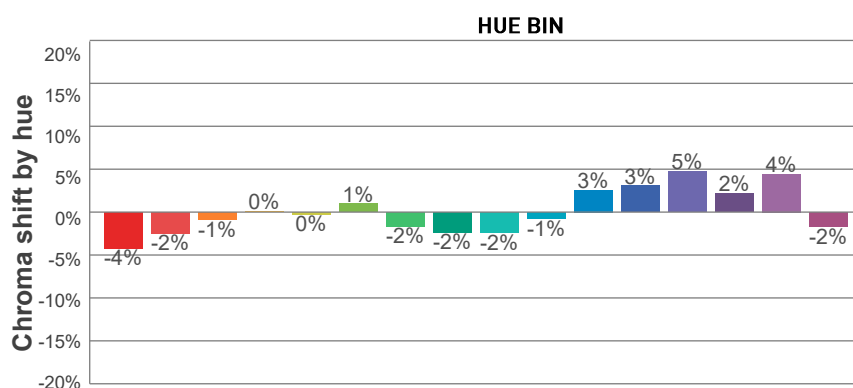
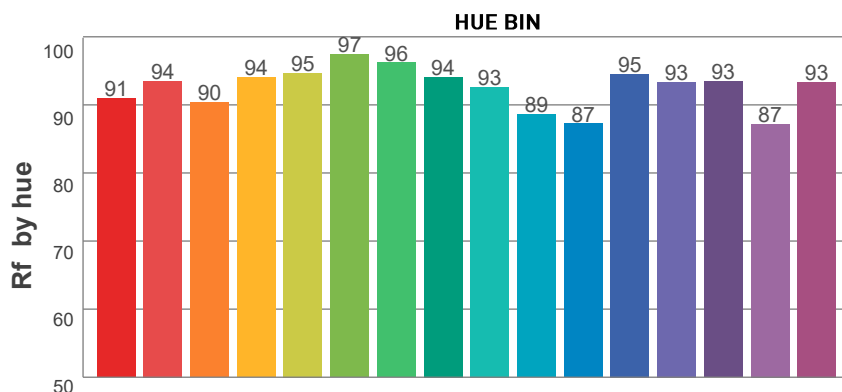
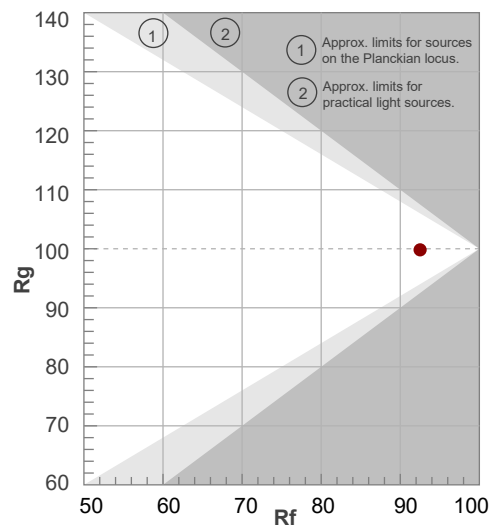
**Rf 92.5**

### Fidelity index Rf

**Rg 99.8**

## Gamut index Rg

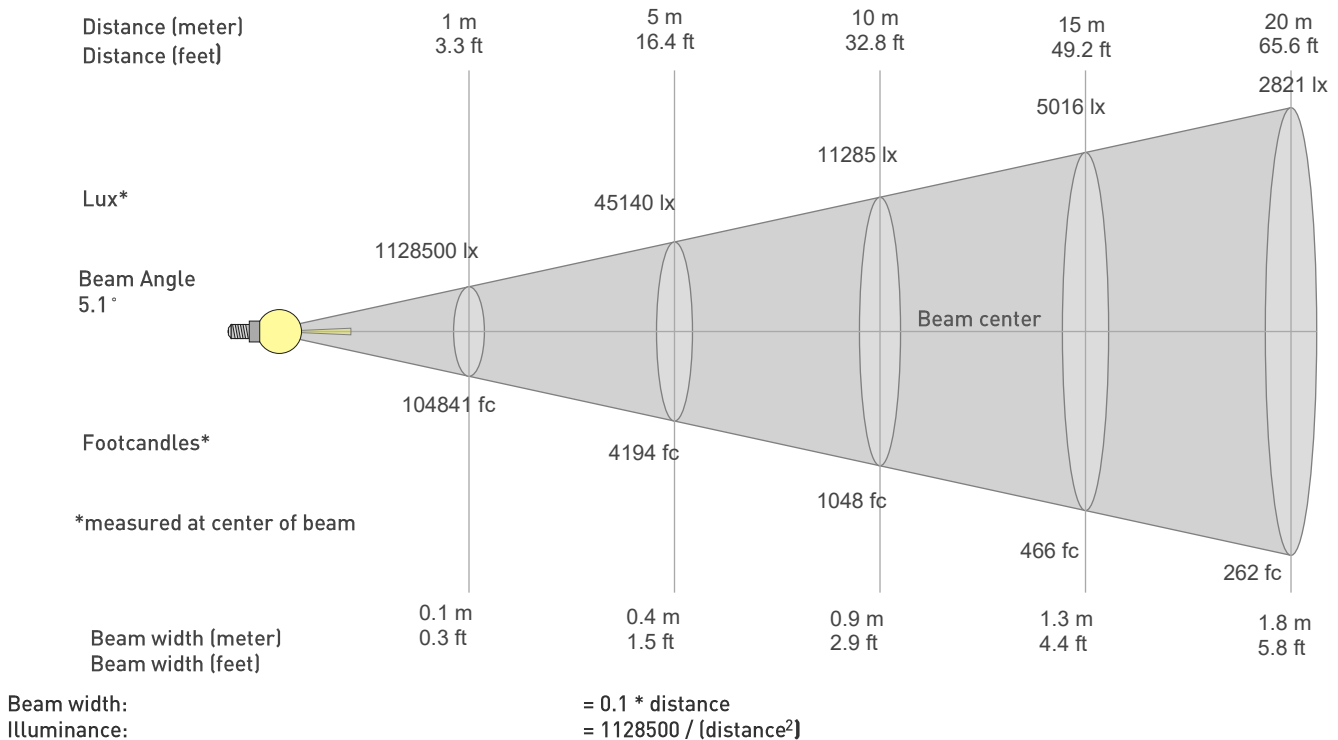
		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	91	-4%	0%
2	94	-2%	3%
3	90	-1%	5%
4	94	0%	3%
5	95	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	87	3%	7%
12	95	3%	2%
13	93	5%	-2%
14	93	2%	-3%
15	87	4%	-10%
16	93	-2%	-3%



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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
1128500lx	282125lx	125389lx	70531lx	45140lx	31347lx	23031lx	17633lx	13932lx	11285lx	9326lx	7837lx	6678lx	5758lx	5016lx	4408lx	3905lx	3483lx	3126lx	2821lx
104841.1fc	26210.3fc	11649fc	6552.6fc	4193.6fc	2912.3fc	2139.6fc	1638.1fc	1294.3fc	1048.4fc	866.5fc	728.1fc	620.4fc	534.9fc	466fc	409.5fc	362.8fc	323.6fc	290.4fc	262.1fc

