

# Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

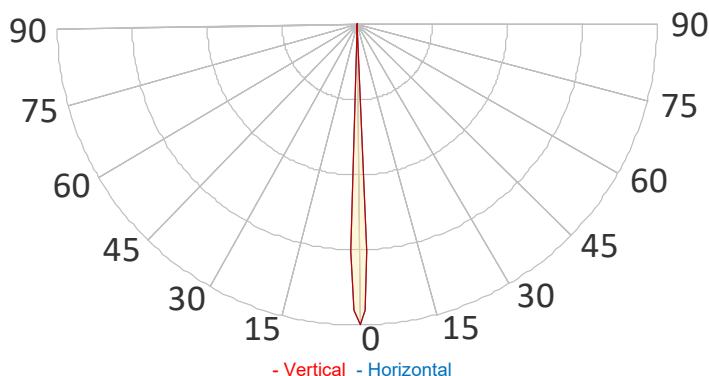
## GENERAL SPECIFICATIONS

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

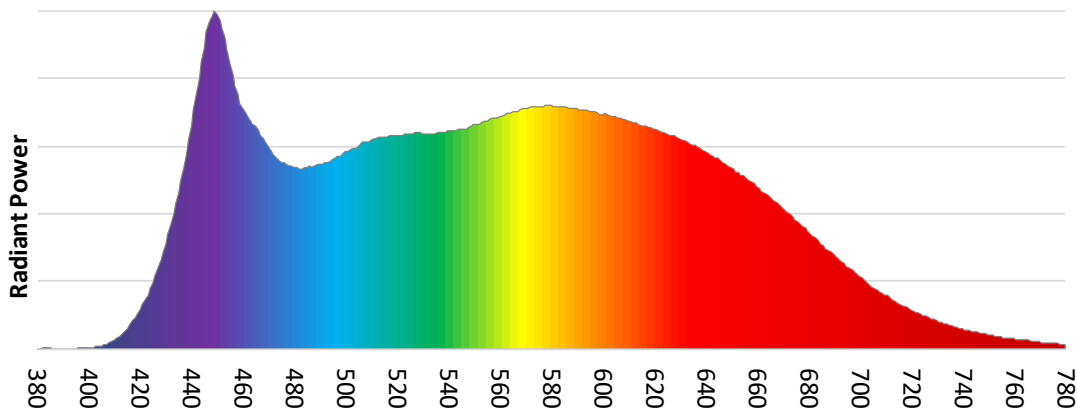


Catalog Number:	MAR-90250600HU
Measured Output:	5794 lm
Measured Peak:	934028 cd
Consumed Power:	505 W
Efficacy:	11.5 lm/W

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 Low
Fixture Warm-up Time:	30 minutes

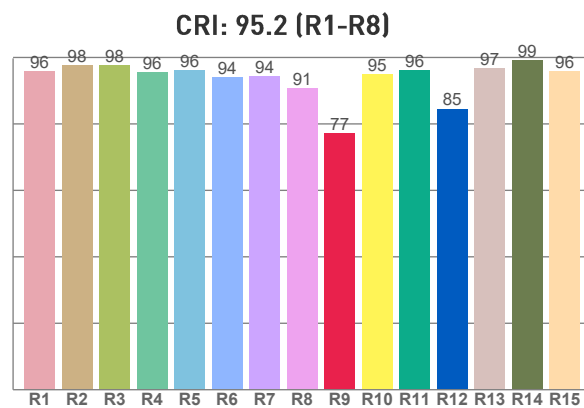
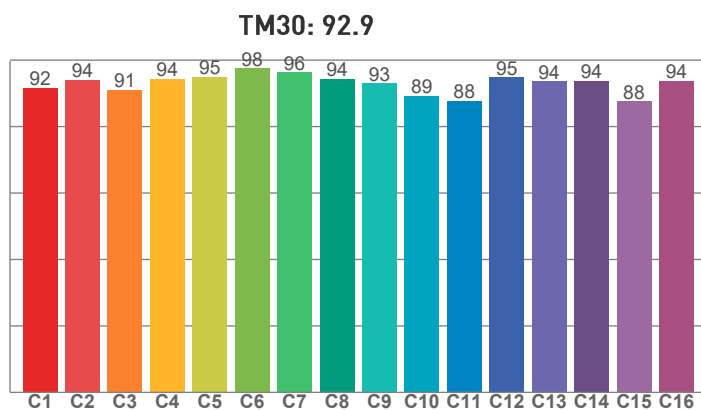
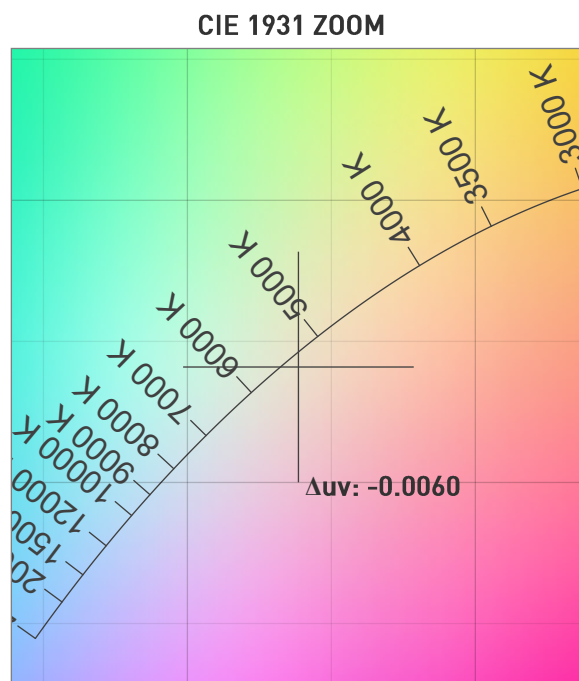
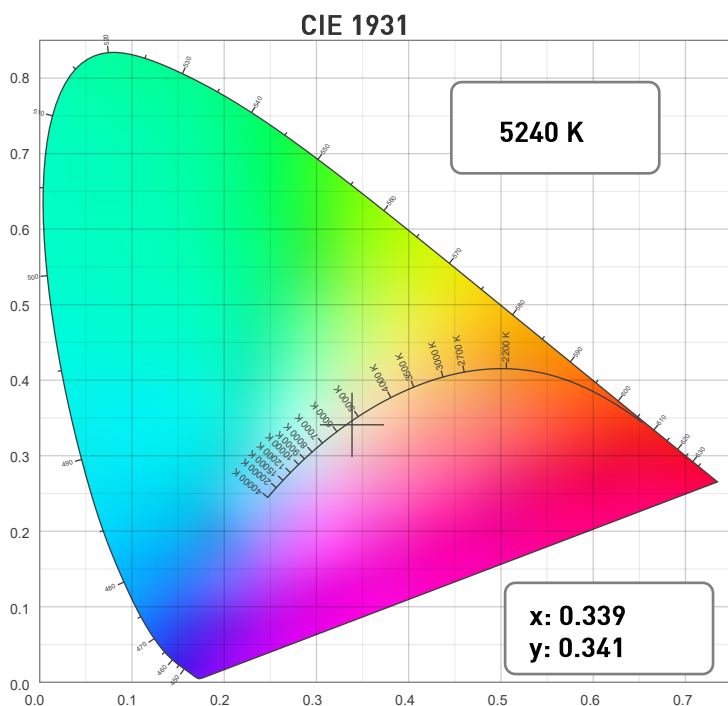
SPECTRAL DISTRIBUTION



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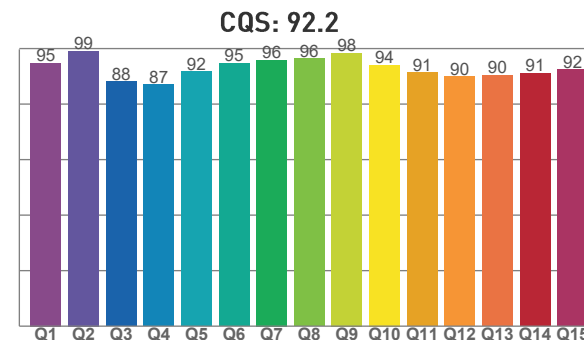
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5240 K	95.2	77.1	92.9	100.1



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
97	92.2	0.339	0.341	0.211	0.319	-0.0060

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TM30

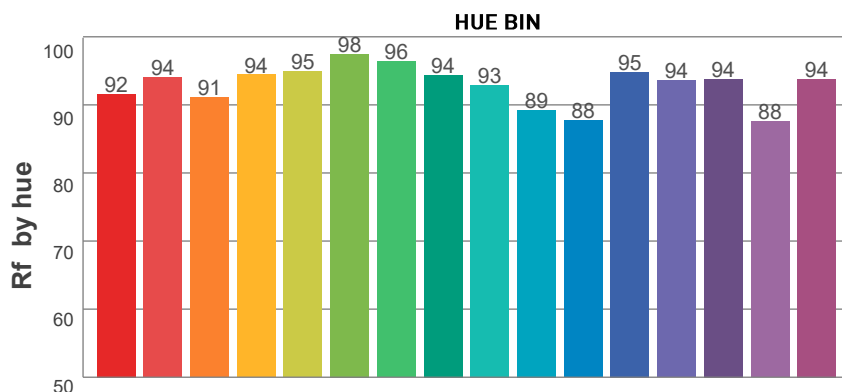
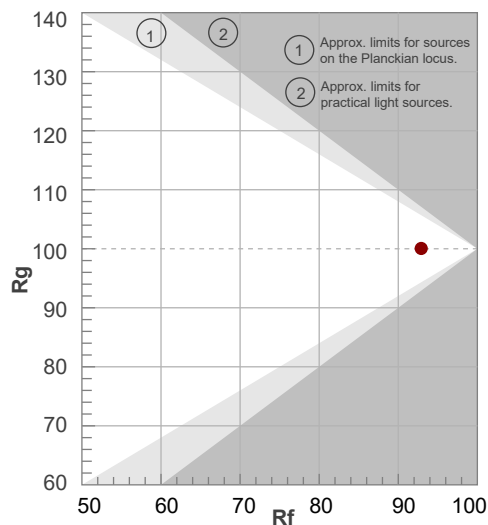
**Rf 92.9**

Fidelity index Rf

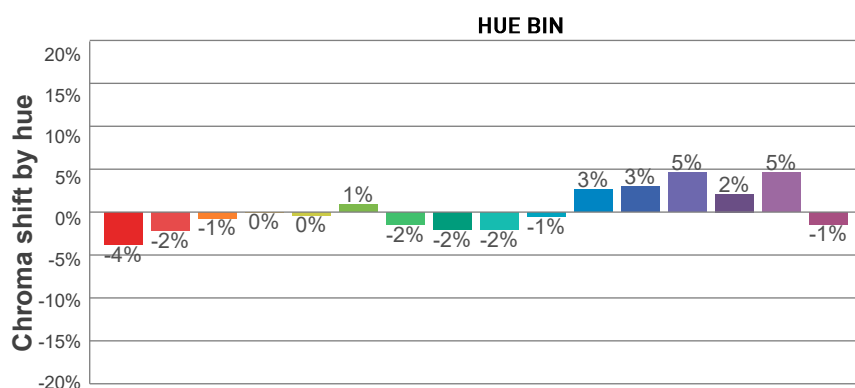
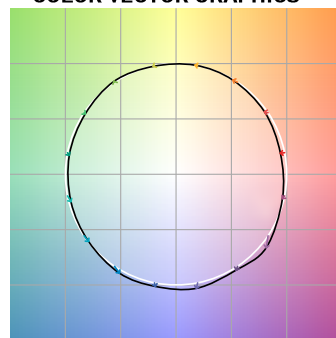
**Rg 100.1**

Gamut index Rg

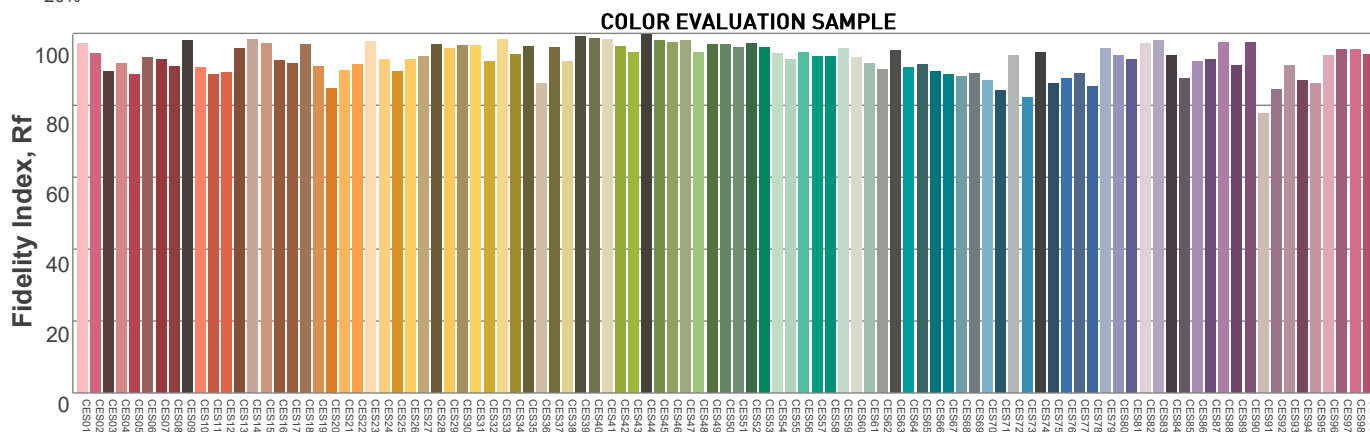
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	94	-2%	3%
3	91	-1%	5%
4	94	0%	2%
5	95	0%	1%
6	98	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	88	3%	7%
12	95	3%	1%
13	94	5%	-2%
14	94	2%	-3%
15	88	5%	-10%
16	94	-1%	-3%



COLOR VECTOR GRAPHICS



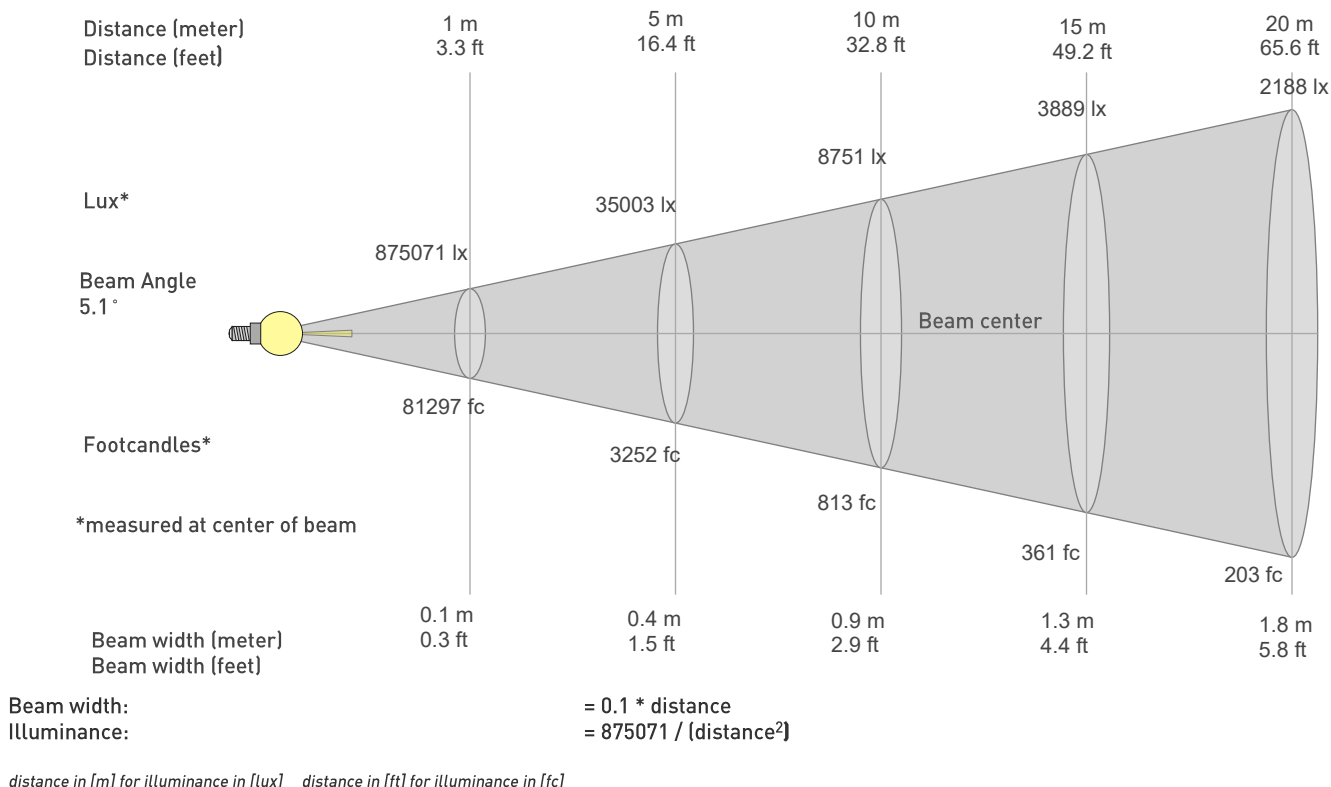
COLOR DISTORTION GRAPHICS



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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
875071lx	218768lx	97230lx	54692lx	35003lx	24308lx	17859lx	13673lx	10803lx	8751lx	7232lx	6077lx	5178lx	4465lx	3889lx	3418lx	3028lx	2701lx	2424lx	2188lx
81296.7fc	20324.2fc	9033fc	5081fc	3251.9fc	2258.2fc	1659.1fc	1270.3fc	1003.7fc	813fc	671.9fc	564.6fc	481fc	414.8fc	361.3fc	317.6fc	281.3fc	250.9fc	225.2fc	203.2fc

