

# Photometric Report

MAC Encore Two With Spectral Enhancement Filter – 10 Degree

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

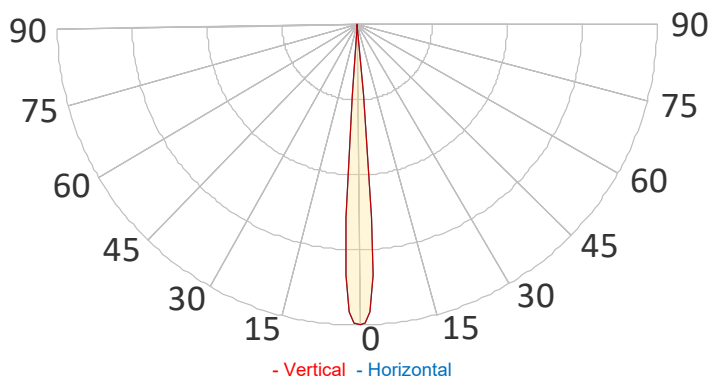
## GENERAL SPECIFICATIONS

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

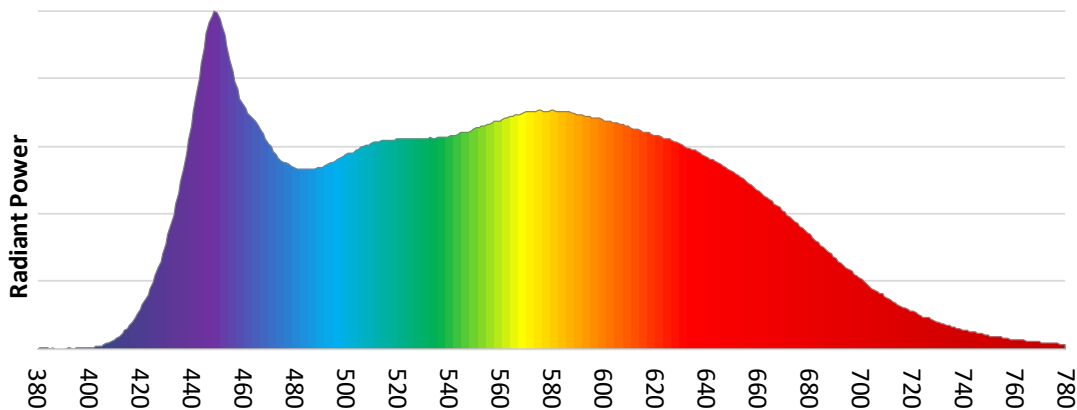


Catalog Number:	MAR-90250600HU
Measured Output:	6270 lm
Measured Peak:	326883 cd
Consumed Power:	340 W
Efficacy:	18.4 lm/W

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 Ultra Low
Fixture Warm-up Time:	30 minutes

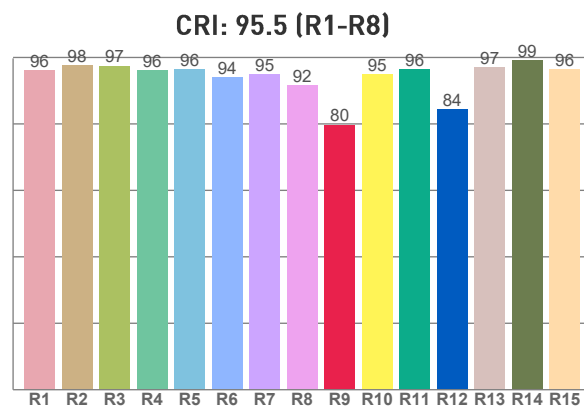
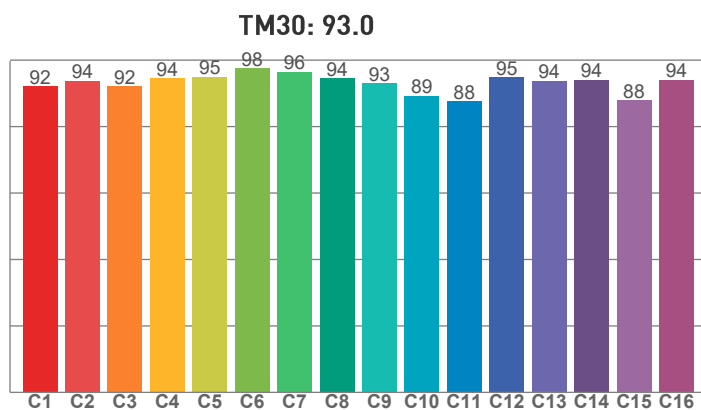
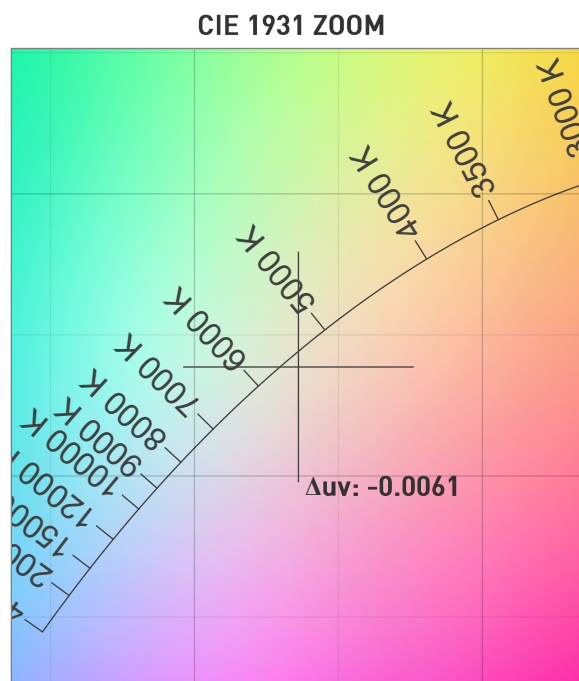
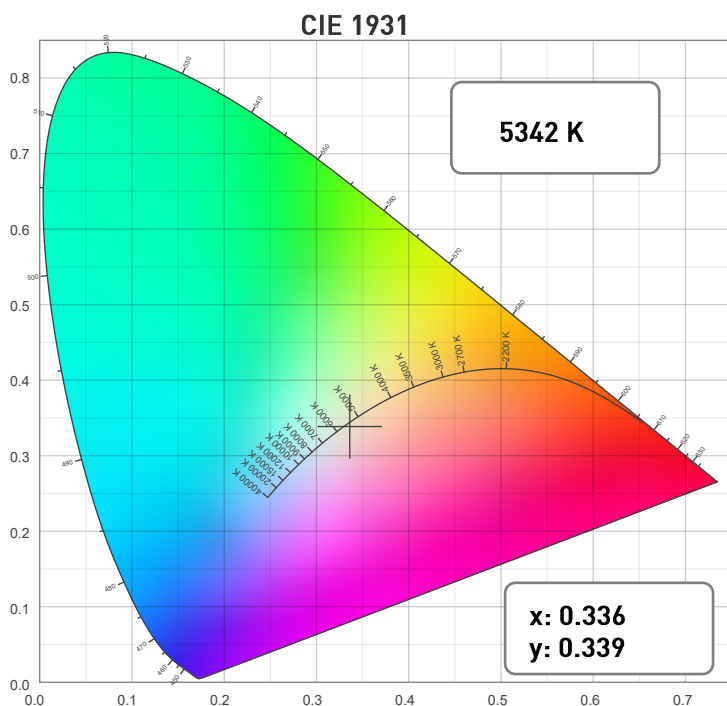
SPECTRAL DISTRIBUTION



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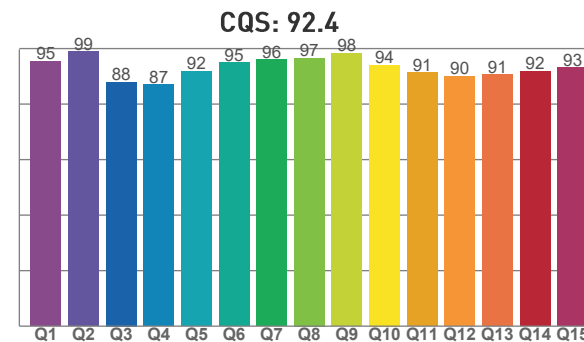
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5342 K	95.5	79.7	93.0	100.3



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
97	92.4	0.336	0.339	0.210	0.318	-0.0061

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TM30

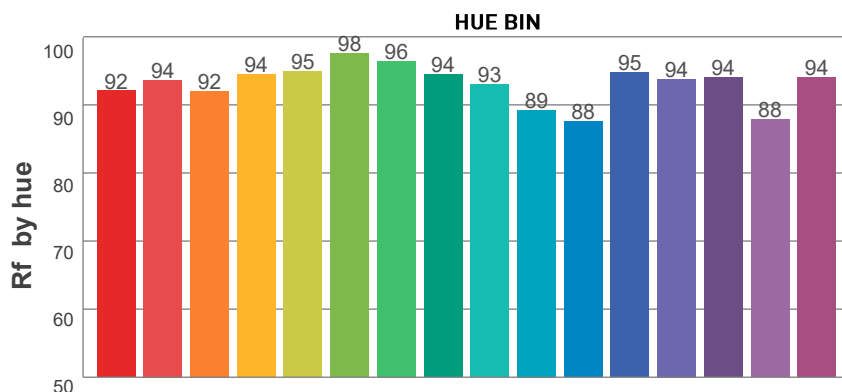
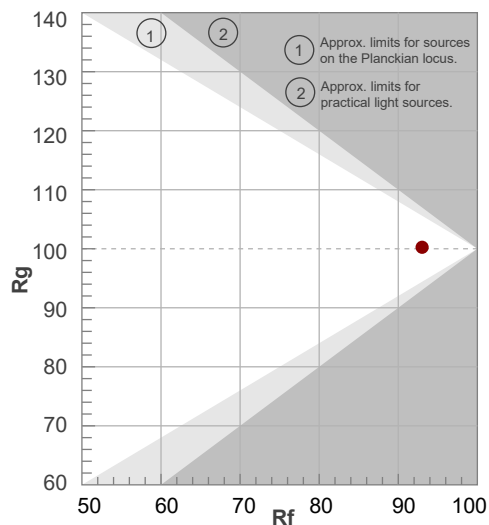
Rf 93.0

Fidelity index Rf

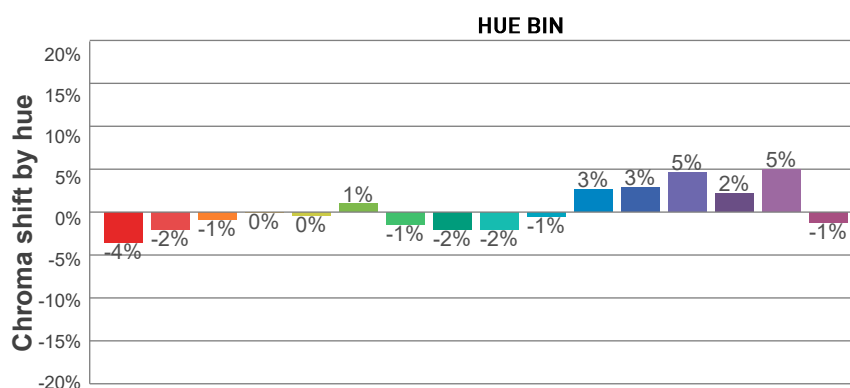
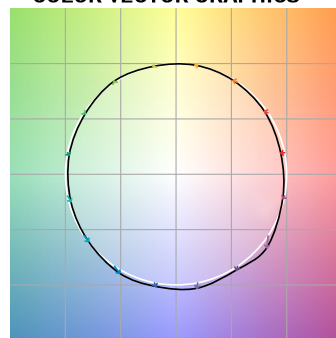
Rg 100.3

Gamut index Rg

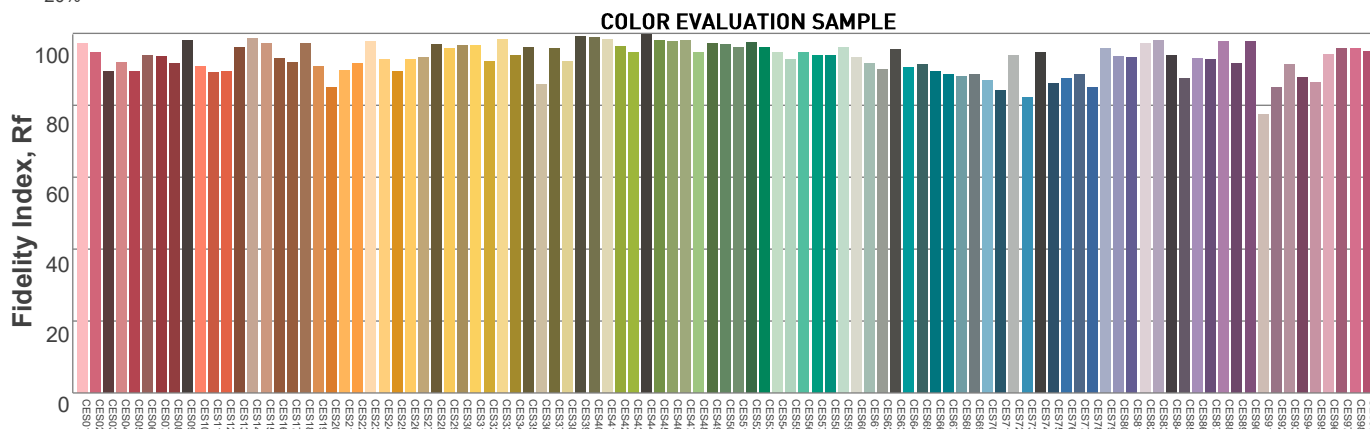
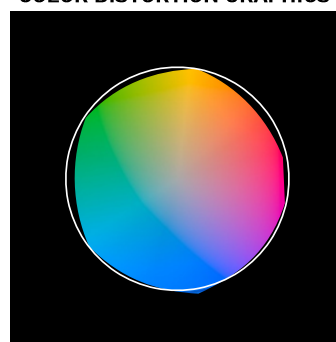
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	94	-2%	3%
3	92	-1%	4%
4	94	0%	2%
5	95	0%	1%
6	98	1%	0%
7	96	-1%	0%
8	94	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	88	3%	7%
12	95	3%	2%
13	94	5%	-2%
14	94	2%	-3%
15	88	5%	-10%
16	94	-1%	-3%



COLOR VECTOR GRAPHICS



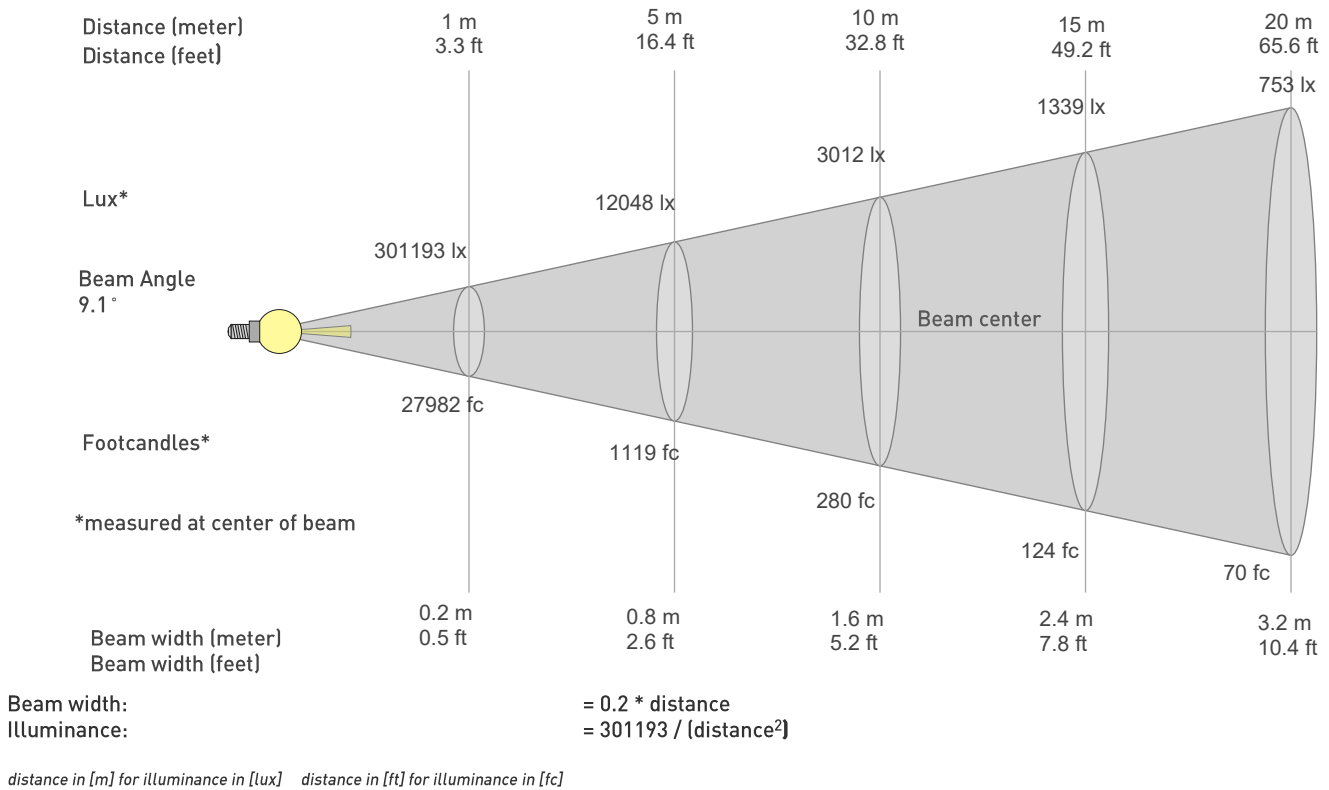
COLOR DISTORTION GRAPHICS



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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
301193lx	75298lx	33466lx	18825lx	12048lx	8366lx	6147lx	4706lx	3718lx	3012lx	2489lx	2092lx	1782lx	1537lx	1339lx	1177lx	1042lx	930lx	834lx	753lx
27981.7fc	6995.4fc	3109.1fc	1748.9fc	1119.3fc	777.3fc	571.1fc	437.2fc	345.5fc	279.8fc	231.3fc	194.3fc	165.6fc	142.8fc	124.4fc	109.3fc	96.8fc	86.4fc	77.5fc	70fc

