

# Photometric Report

## MAC Encore Two With Spectral Enhancement Filter – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

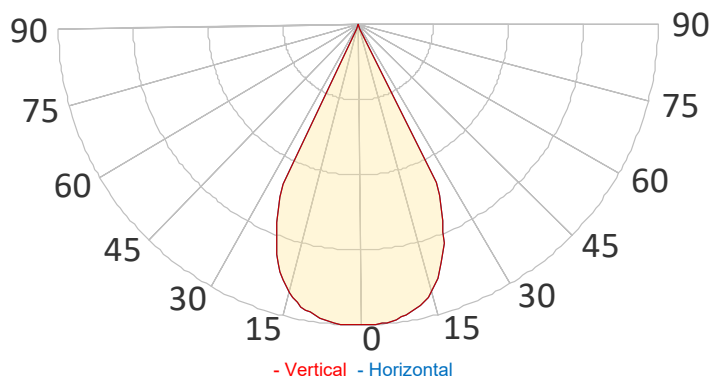
### GENERAL SPECIFICATIONS

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

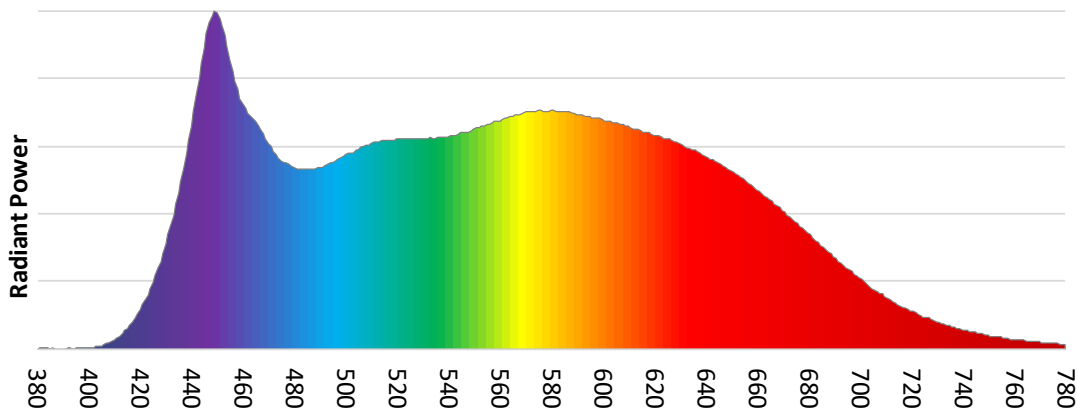


Catalog Number:	MAR-90250600HU
Measured Output:	9520 lm
Measured Peak:	19177 cd
Consumed Power:	504 W
Efficacy:	18.9 lm/W

Beam Angle (50%):	50.1°
Field Angle (10%):	53.7°
Cut-off Angle (3%):	53.9°

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

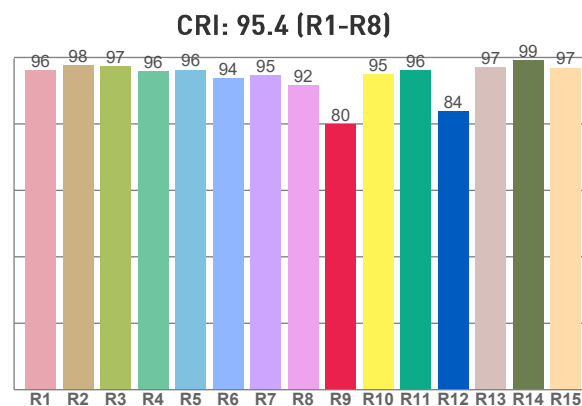
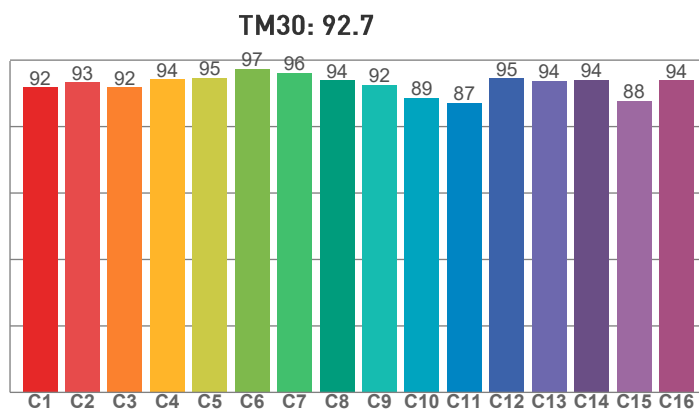
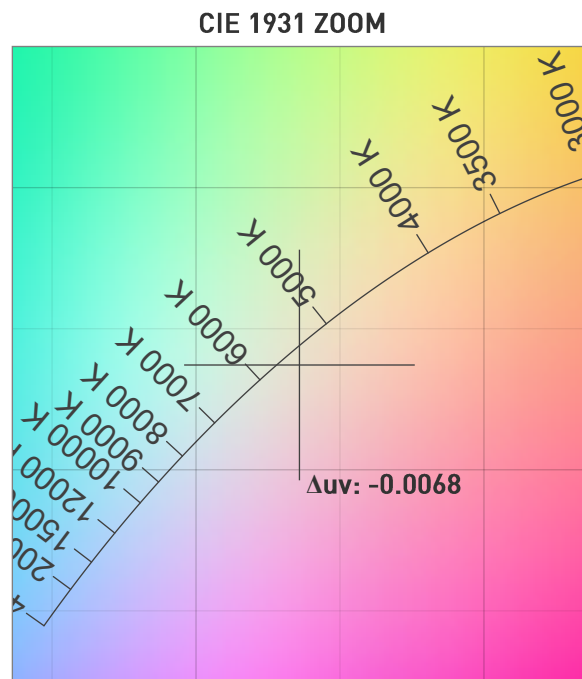
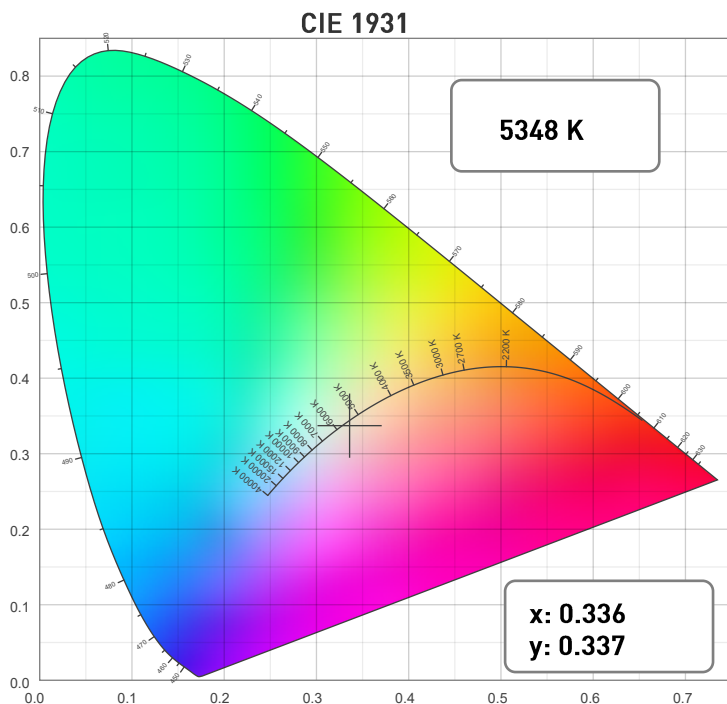
SPECTRAL DISTRIBUTION



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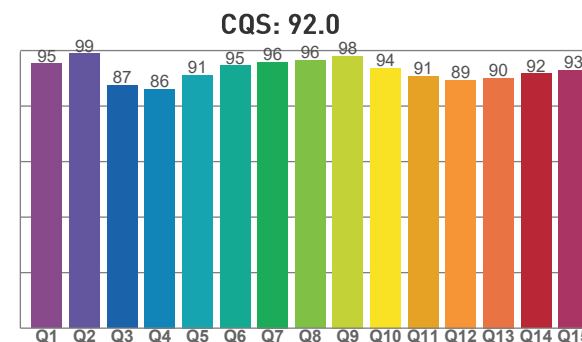
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5348 K	95.4	80.0	92.7	100.2



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	92.0	0.336	0.337	0.211	0.317	-0.0068

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TM30

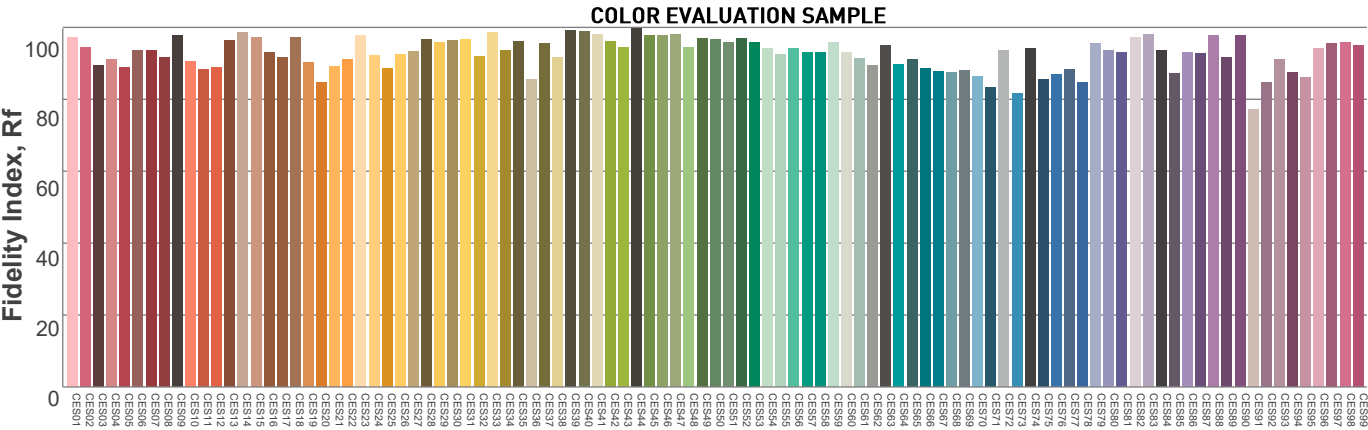
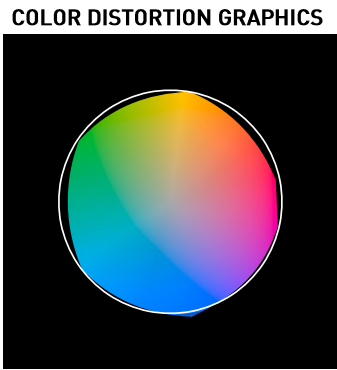
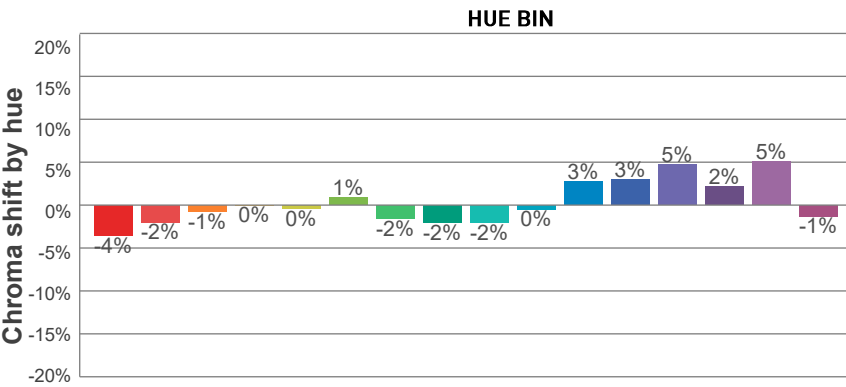
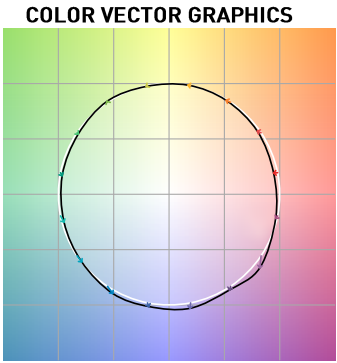
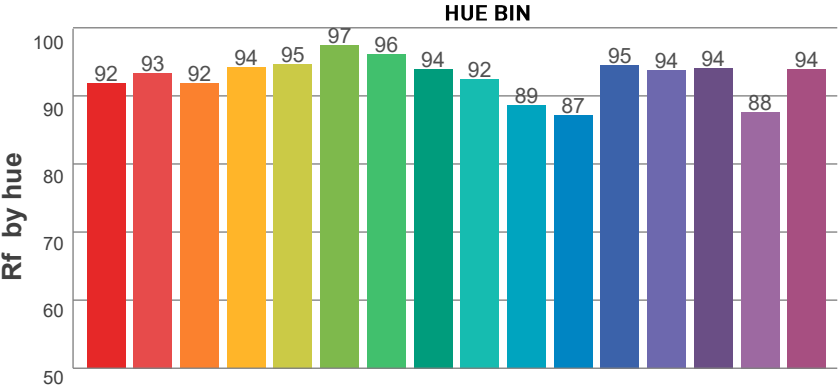
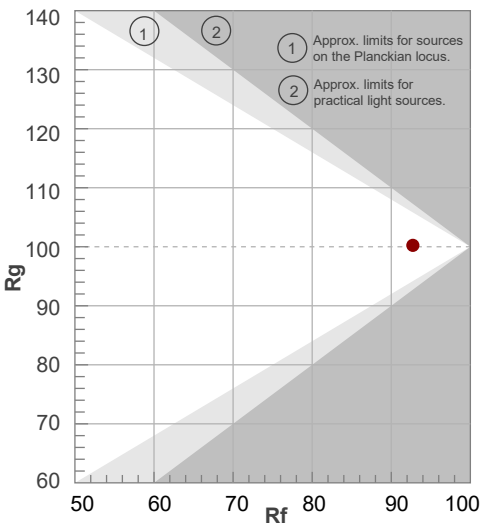
Rf 92.7

Fidelity index Rf

Rg 100.2

Gamut index Rg

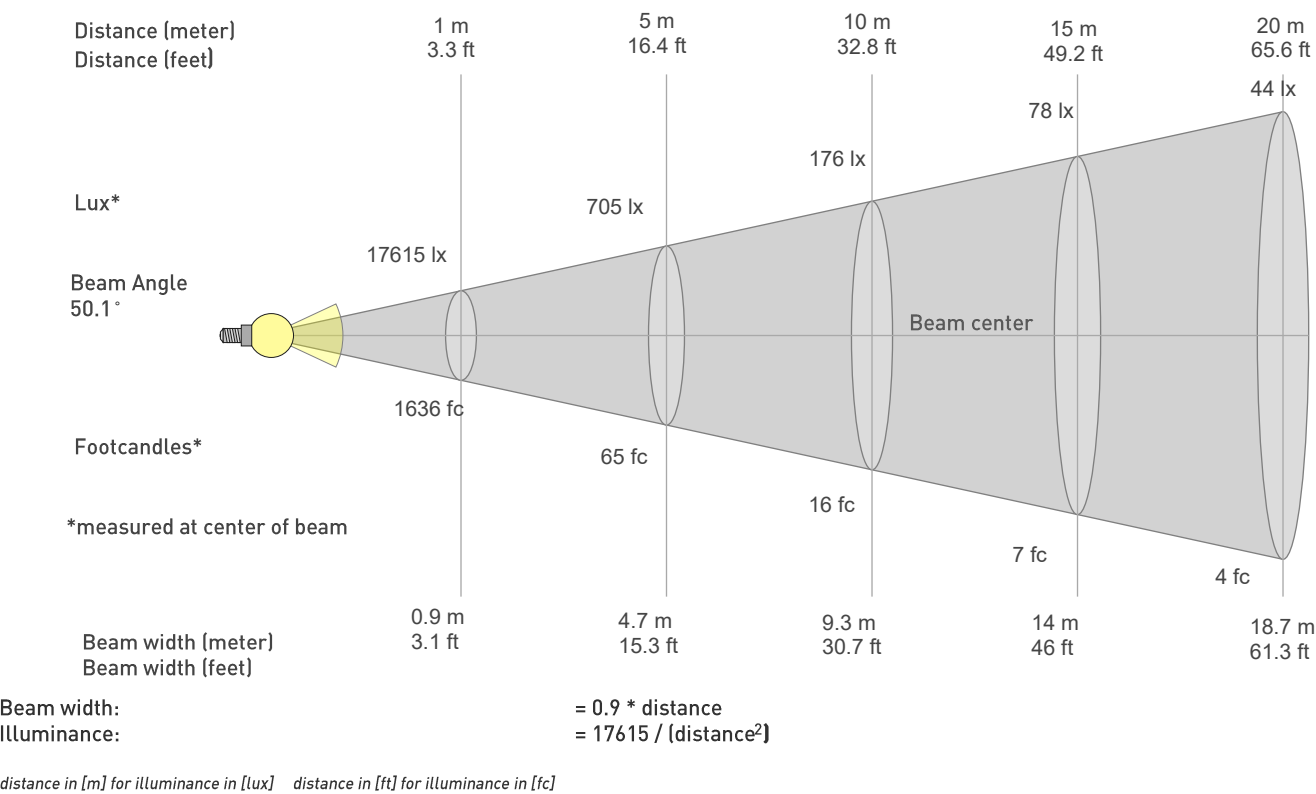
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-2%	3%
3	92	-1%	4%
4	94	0%	2%
5	95	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	92	-2%	6%
10	89	0%	7%
11	87	3%	7%
12	95	3%	2%
13	94	5%	-2%
14	94	2%	-3%
15	88	5%	-10%
16	94	-1%	-3%



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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
17615lx	4404lx	1957lx	1101lx	705lx	489lx	359lx	275lx	217lx	176lx	146lx	122lx	104lx	90lx	78lx	69lx	61lx	54lx	49lx	44lx
1636.5fc	409.1fc	181.8fc	102.3fc	65.5fc	45.5fc	33.4fc	25.6fc	20.2fc	16.4fc	13.5fc	11.4fc	9.7fc	8.3fc	7.3fc	6.4fc	5.7fc	5.1fc	4.5fc	4.1fc

