

# Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

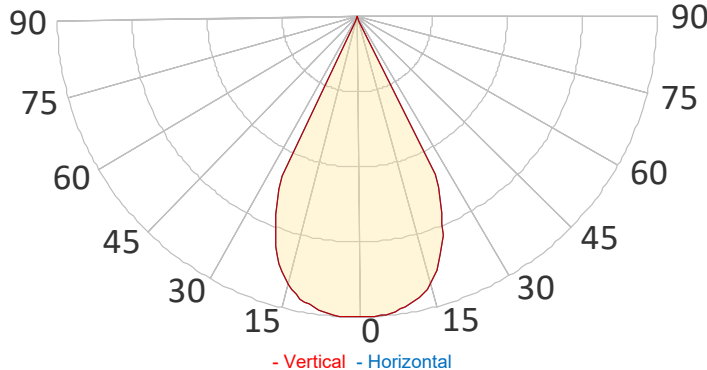
## GENERAL SPECIFICATIONS

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

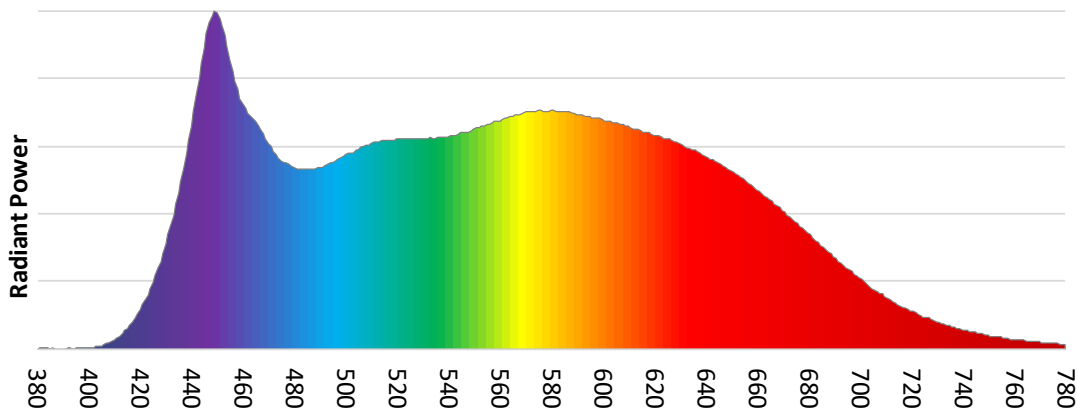


Catalog Number:	MAR-90250600HU
Measured Output:	12297 lm
Measured Peak:	24724 cd
Consumed Power:	737 W
Efficacy:	16.7 lm/W

Beam Angle (50%):	50.1°
Field Angle (10%):	53.7°
Cut-off Angle (3%):	54°

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

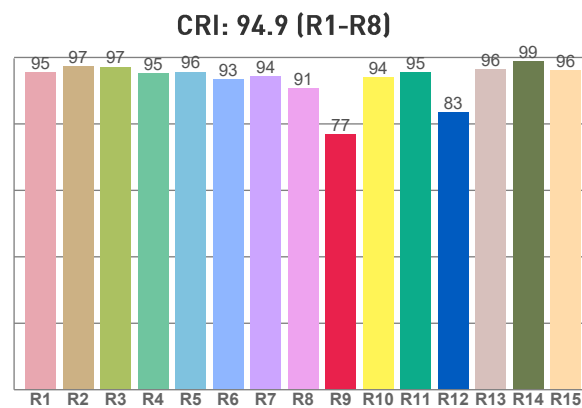
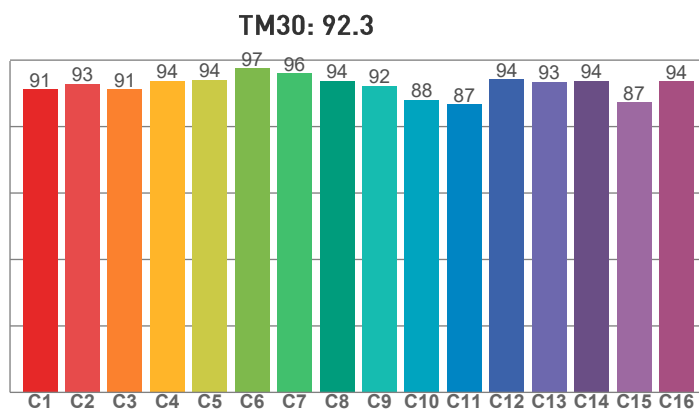
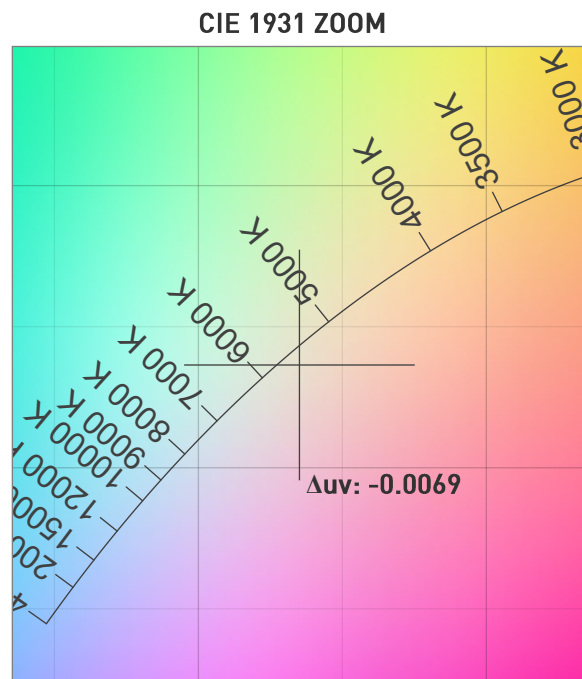
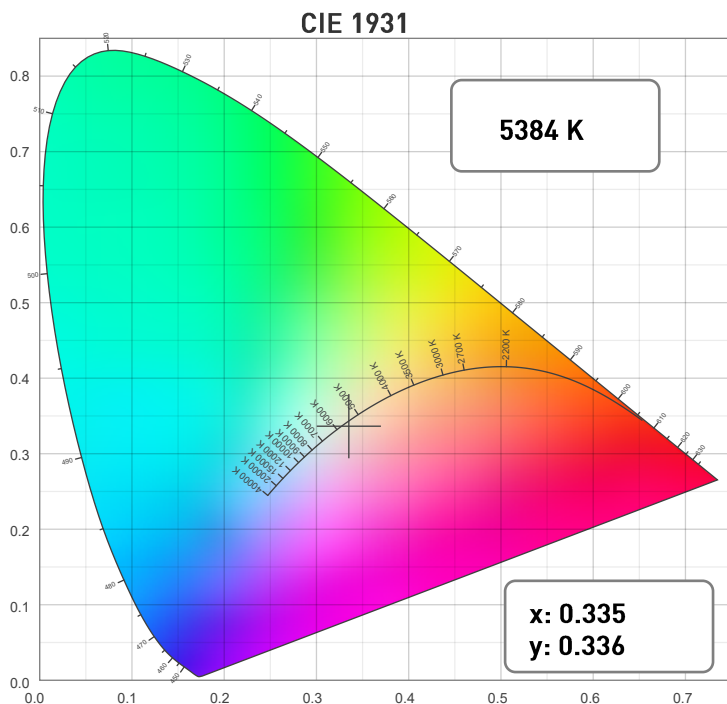
SPECTRAL DISTRIBUTION



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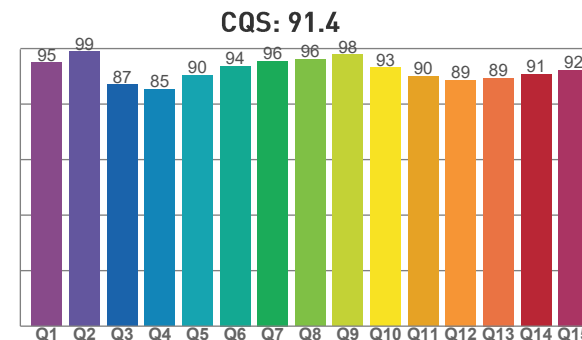
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5384 K	94.9	76.9	92.3	100.0



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	91.4	0.335	0.336	0.211	0.317	-0.0069

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TM30

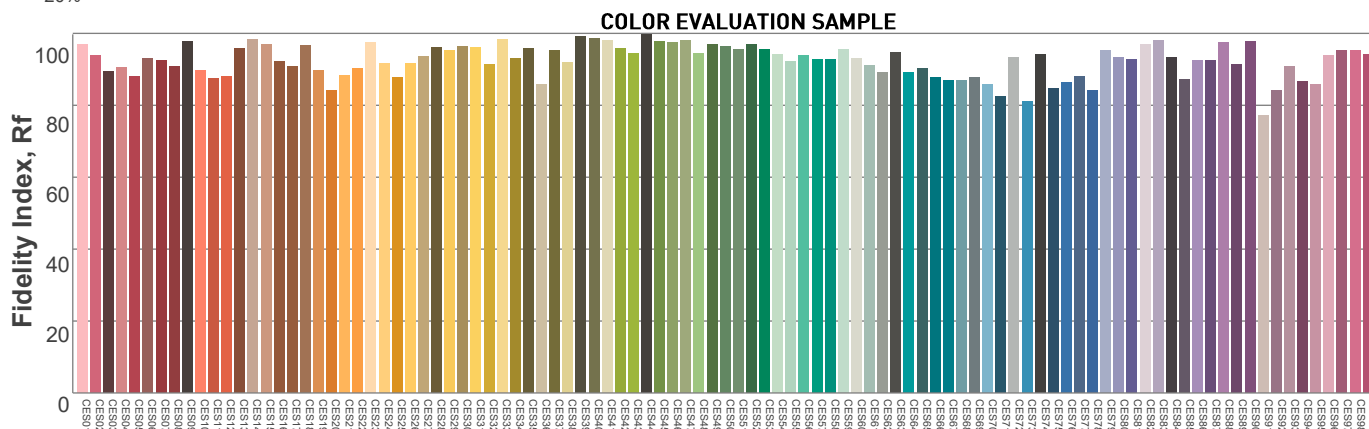
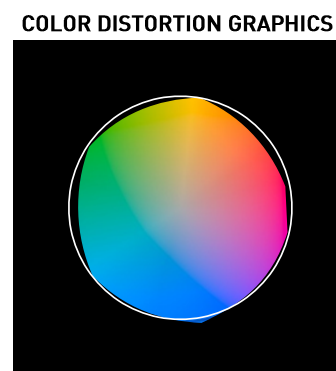
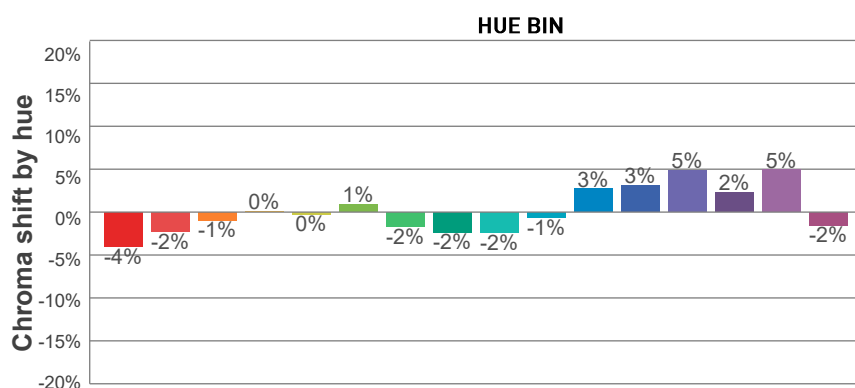
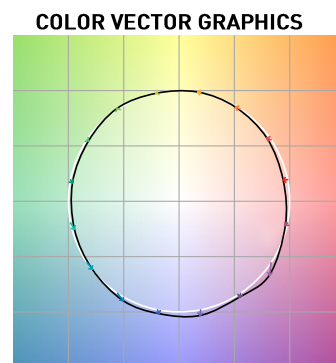
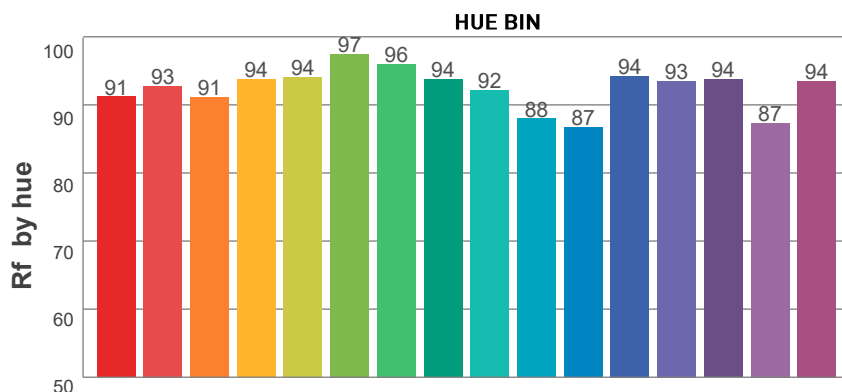
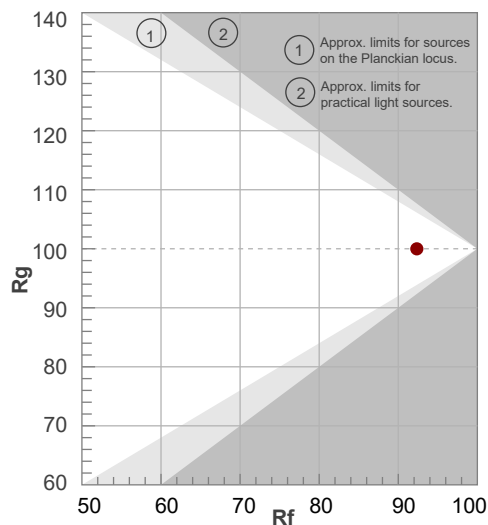
Rf 92.3

Fidelity index Rf

Rg 100.0

Gamut index Rg

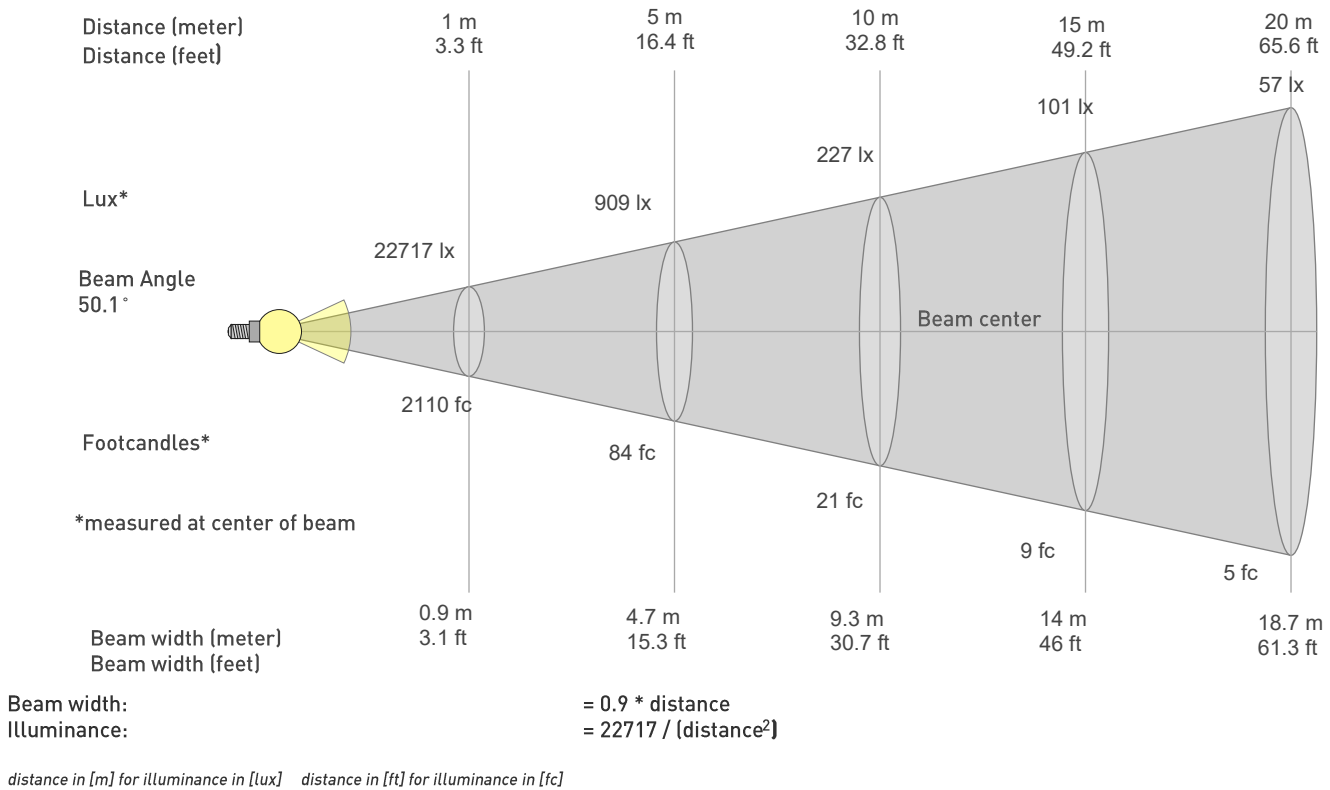
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	0%
2	93	-2%	3%
3	91	-1%	5%
4	94	0%	3%
5	94	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	92	-2%	6%
10	88	-1%	7%
11	87	3%	8%
12	94	3%	2%
13	93	5%	-2%
14	94	2%	-3%
15	87	5%	-10%
16	94	-2%	-3%



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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
22717lx	5679lx	2524lx	1420lx	909lx	631lx	464lx	355lx	280lx	227lx	188lx	158lx	134lx	116lx	101lx	89lx	79lx	70lx	63lx	57lx
2110.5fc	527.6fc	234.5fc	131.9fc	84.4fc	58.6fc	43.1fc	33fc	26.1fc	21.1fc	17.4fc	14.7fc	12.5fc	10.8fc	9.4fc	8.2fc	7.3fc	6.5fc	5.8fc	5.3fc

