

# Photometric Report

MAC Encore Two With Spectral Enhancement Filter – 10 Degree

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

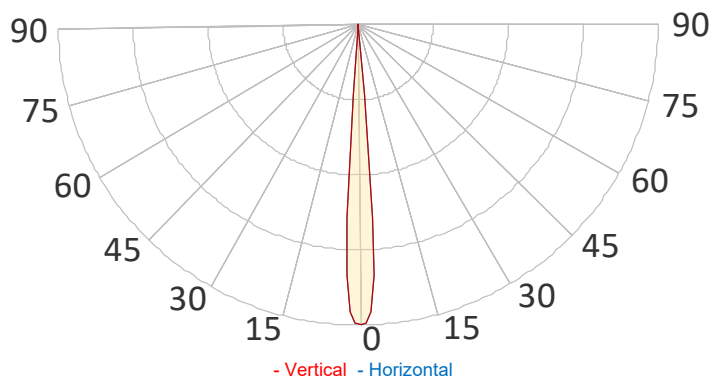
## GENERAL SPECIFICATIONS

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

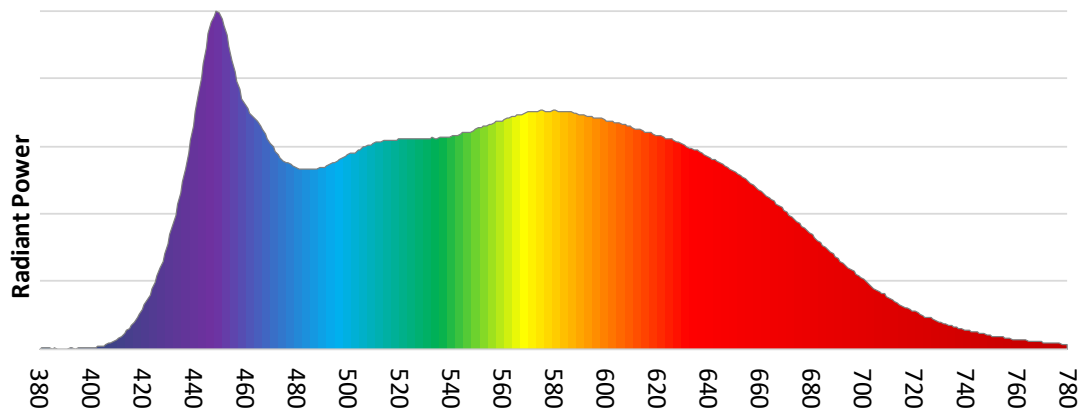


Catalog Number:	MAR-90250600HU
Measured Output:	8747 lm
Measured Peak:	455191 cd
Consumed Power:	504 W
Efficacy:	17.4 lm/W

Beam Angle (50%):	9.1°
Field Angle (10%):	11.3°
Cut-off Angle (3%):	11.8°

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

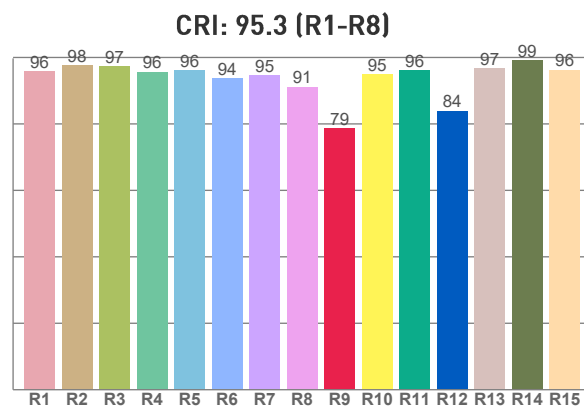
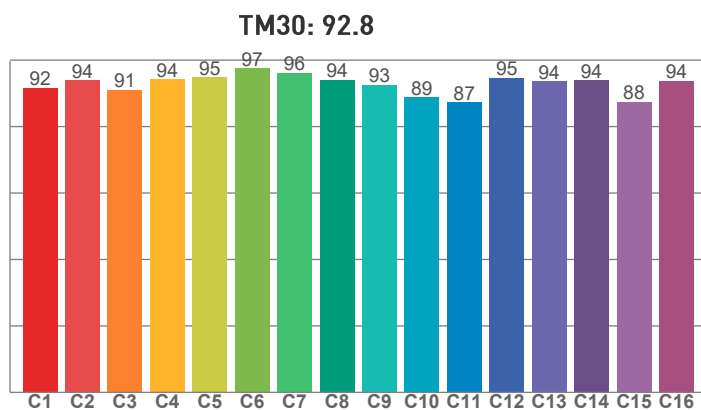
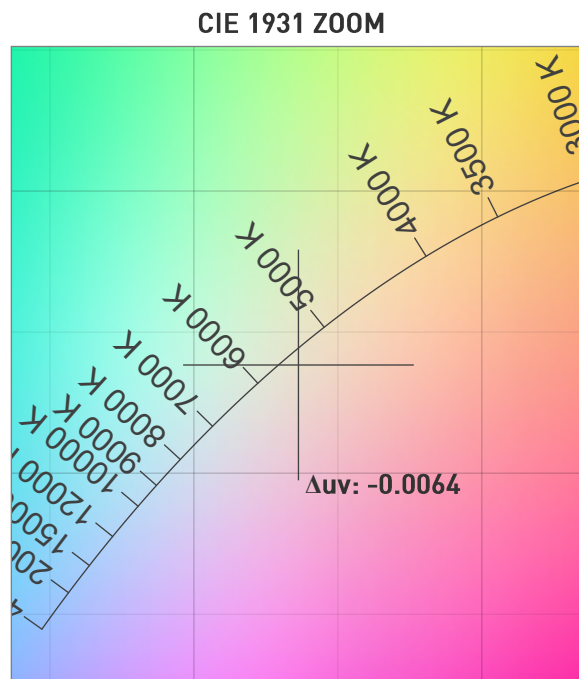
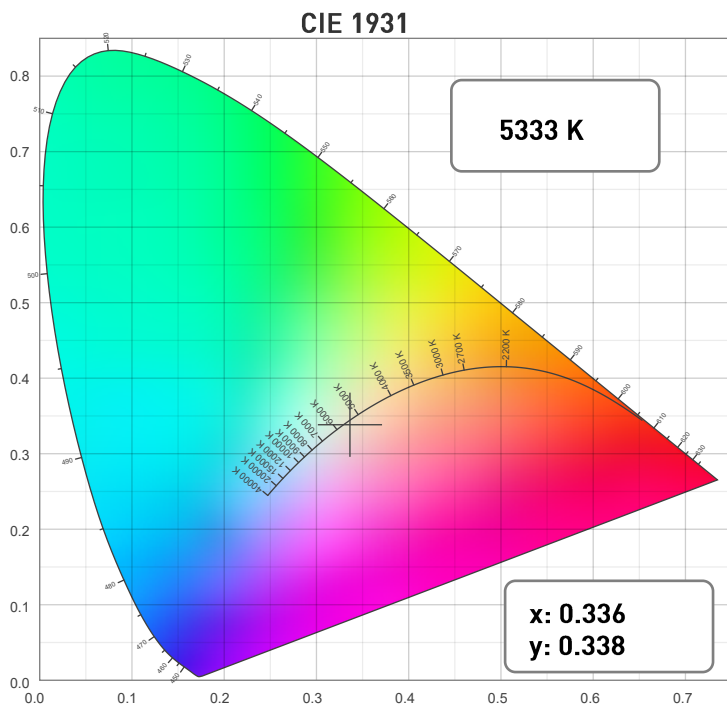
SPECTRAL DISTRIBUTION



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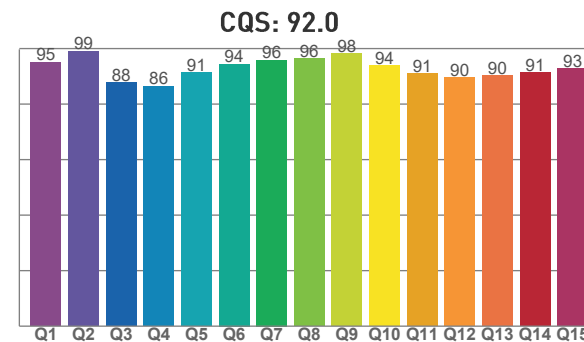
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5333 K	95.3	78.6	92.8	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	92.0	0.336	0.338	0.211	0.318	-0.0064

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TM30

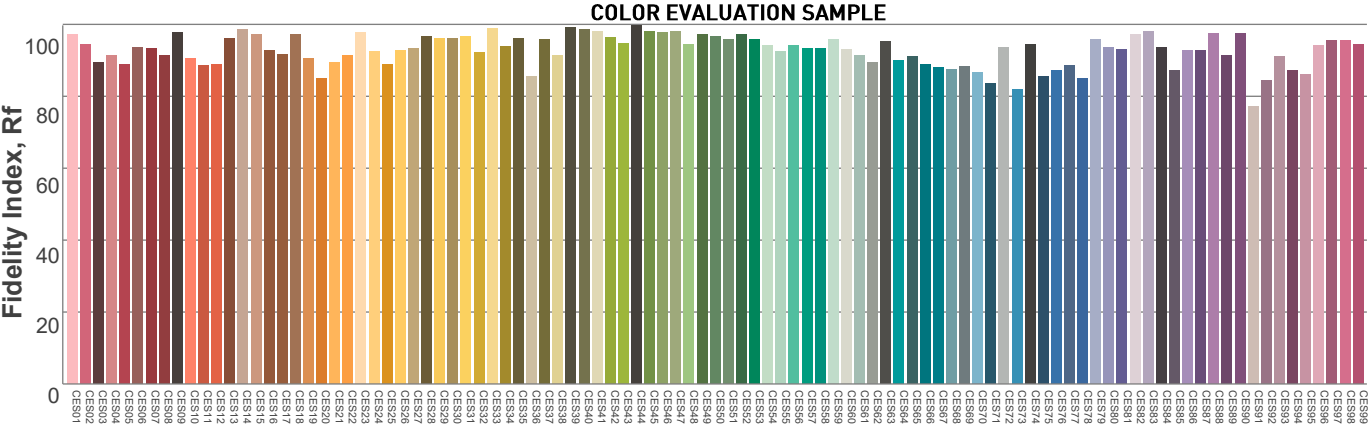
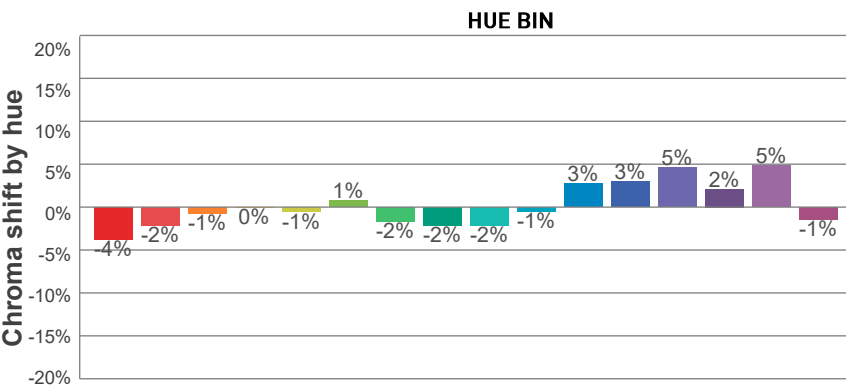
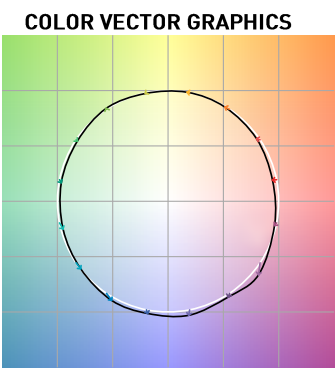
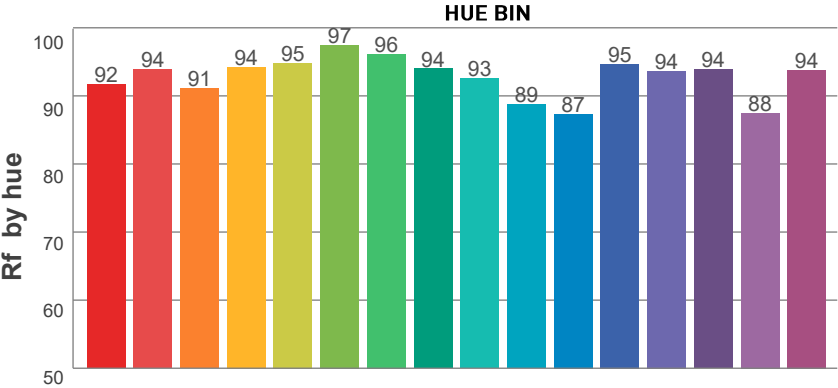
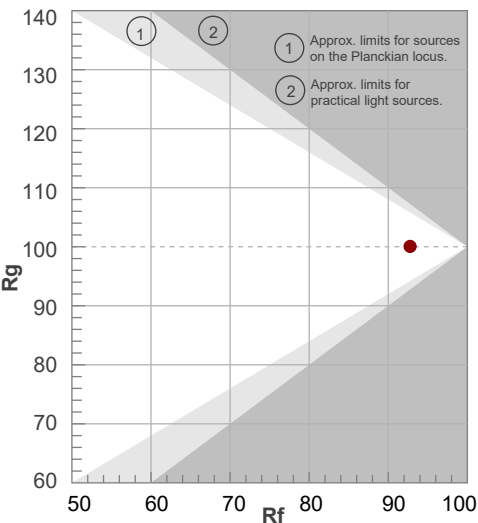
Rf 92.8

Fidelity index Rf

Rg 100.1

Gamut index Rg

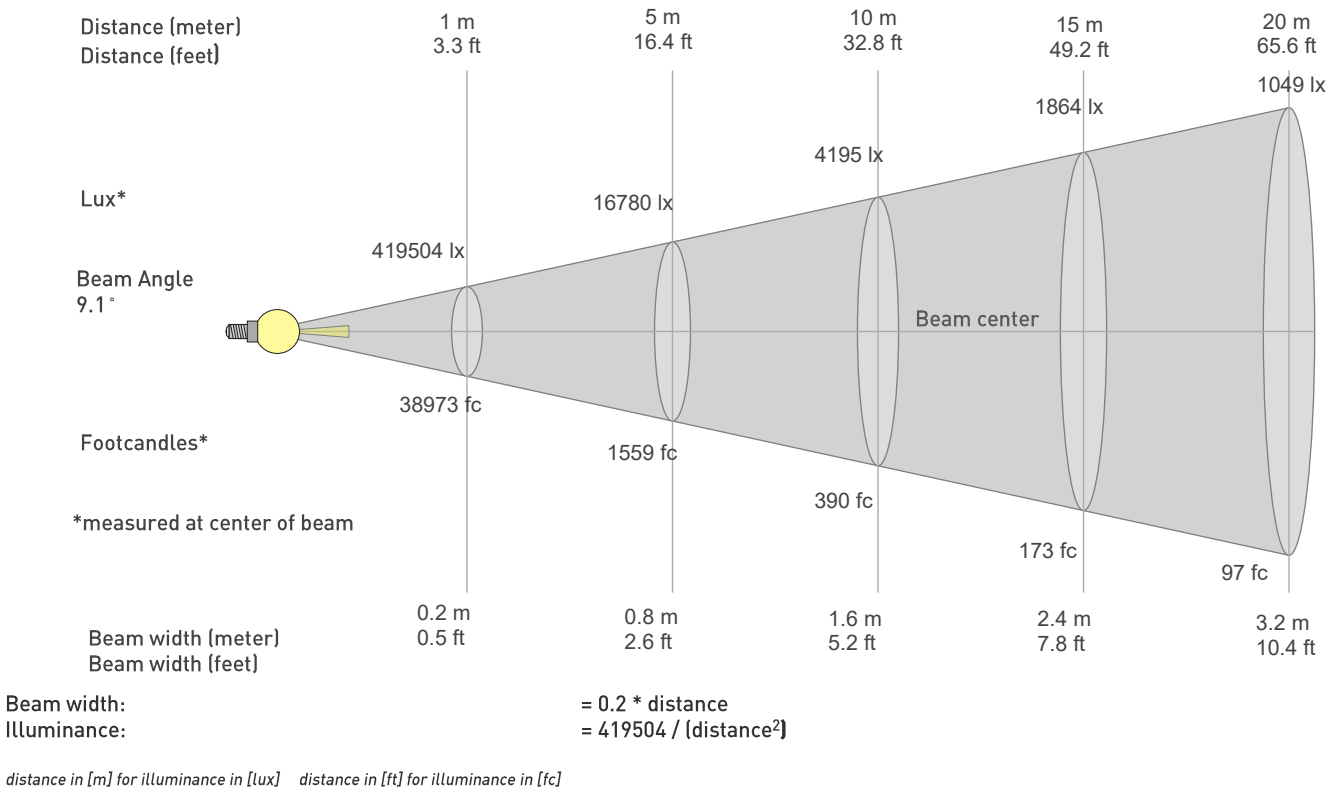
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	94	-2%	3%
3	91	-1%	5%
4	94	0%	2%
5	95	-1%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	87	3%	7%
12	95	3%	2%
13	94	5%	-2%
14	94	2%	-3%
15	88	5%	-10%
16	94	-1%	-3%



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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
419504lx	104876lx	46612lx	26219lx	16780lx	11653lx	8561lx	6555lx	5179lx	4195lx	3467lx	2913lx	2482lx	2140lx	1864lx	1639lx	1452lx	1295lx	1162lx	1049lx
38973.2fc	9743.3fc	4330.4fc	2435.8fc	1558.9fc	1082.6fc	795.4fc	609fc	481.2fc	389.7fc	322.1fc	270.6fc	230.6fc	198.8fc	173.2fc	152.2fc	134.9fc	120.3fc	108fc	97.4fc

