

Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

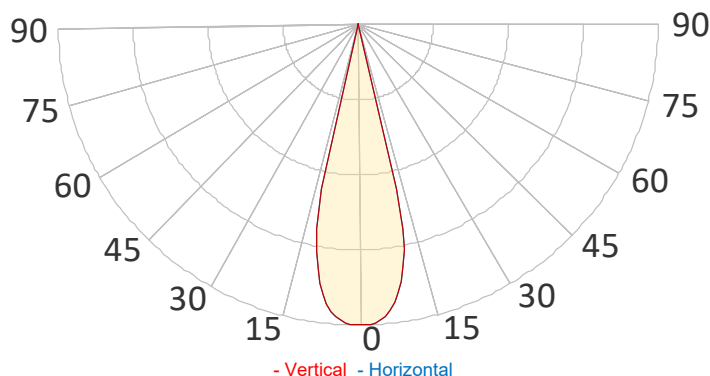
GENERAL SPECIFICATIONS

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

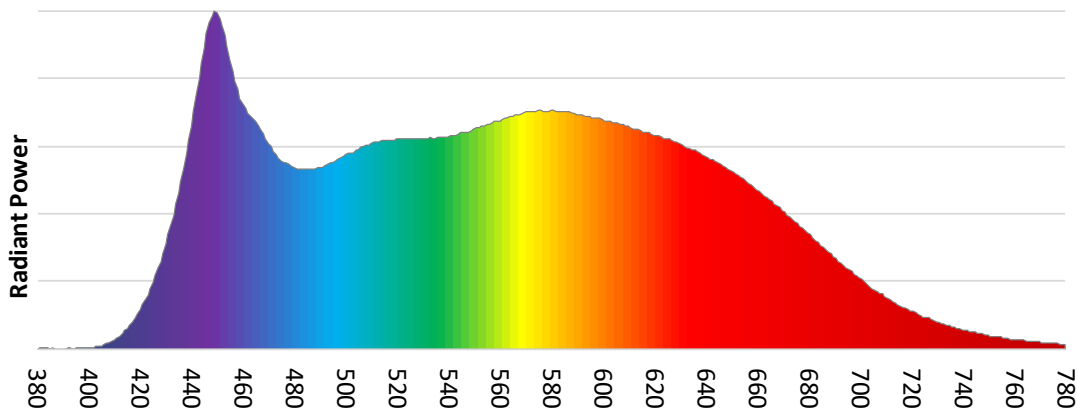


Catalog Number:	MAR-90250600HU
Measured Output:	6701 lm
Measured Peak:	48947 cd
Consumed Power:	340 W
Efficacy:	19.7 lm/W

Beam Angle (50%):	25.6°
Field Angle (10%):	27.6°
Cut-off Angle (3%):	27.9°

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

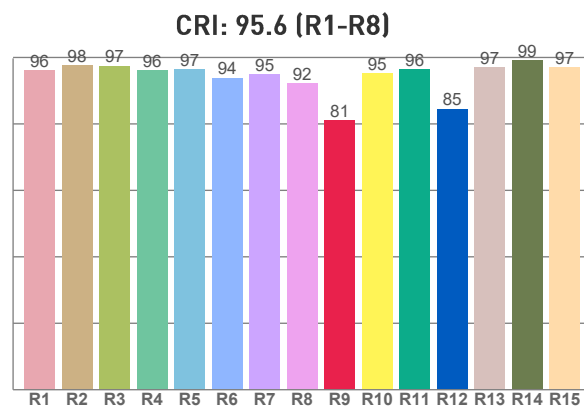
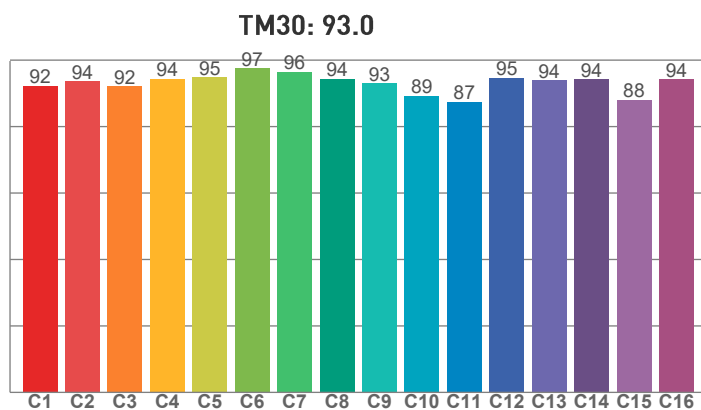
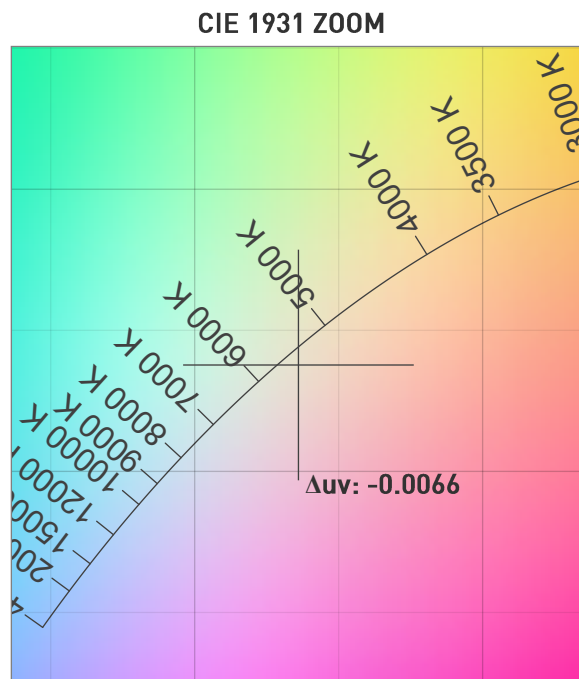
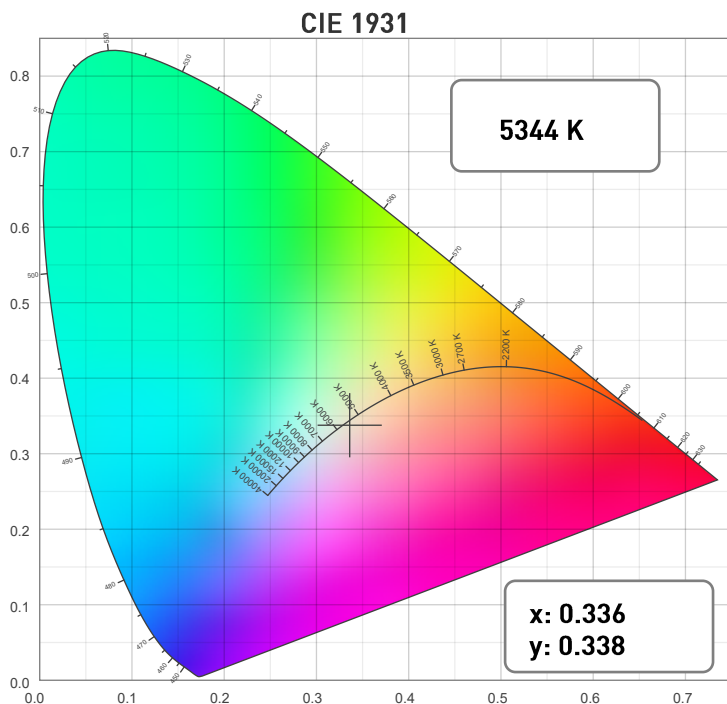
SPECTRAL DISTRIBUTION



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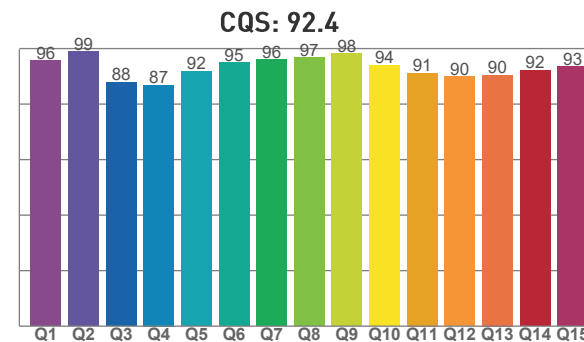
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5344 K	95.6	81.2	93.0	100.4



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	0.338	0.211	0.318	-0.0066

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TM30

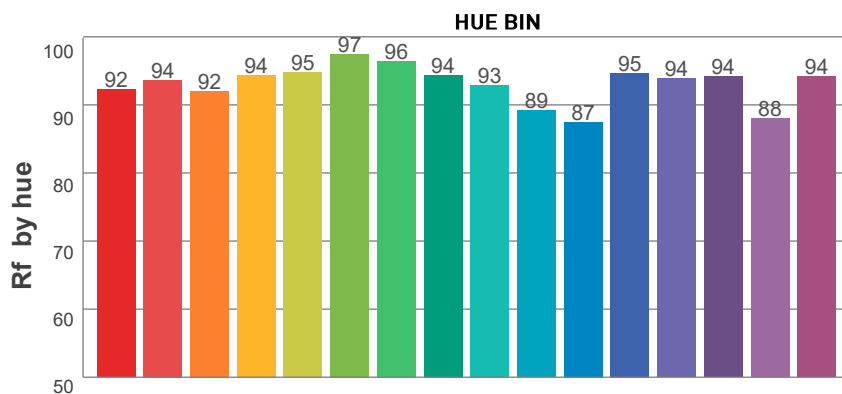
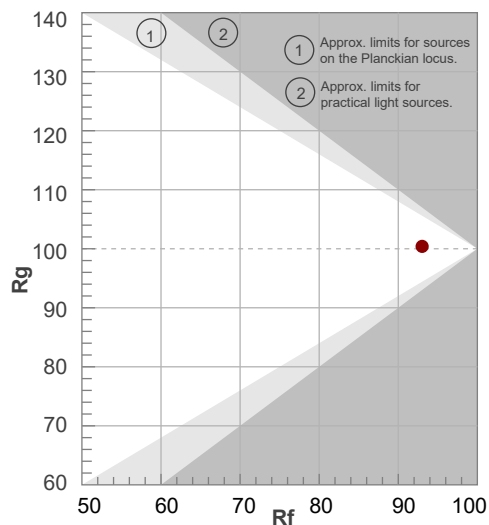
Rf 93.0

Fidelity index Rf

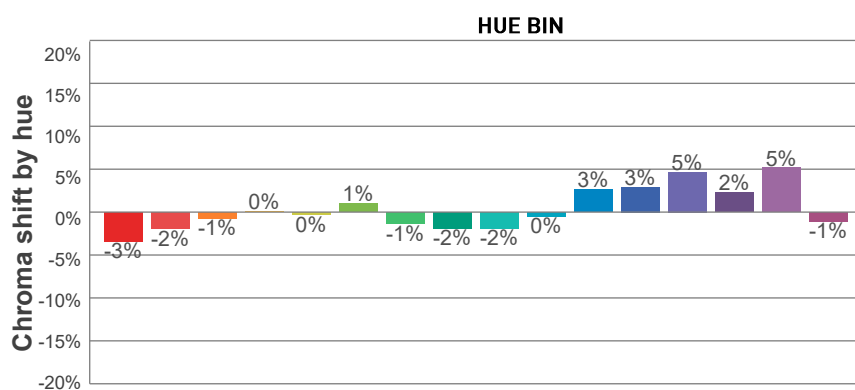
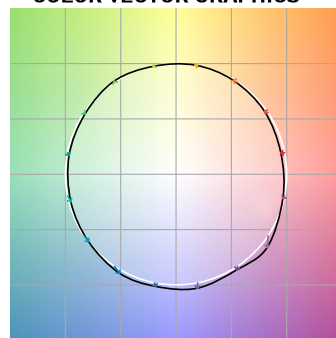
Rg 100.4

Gamut index Rg

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



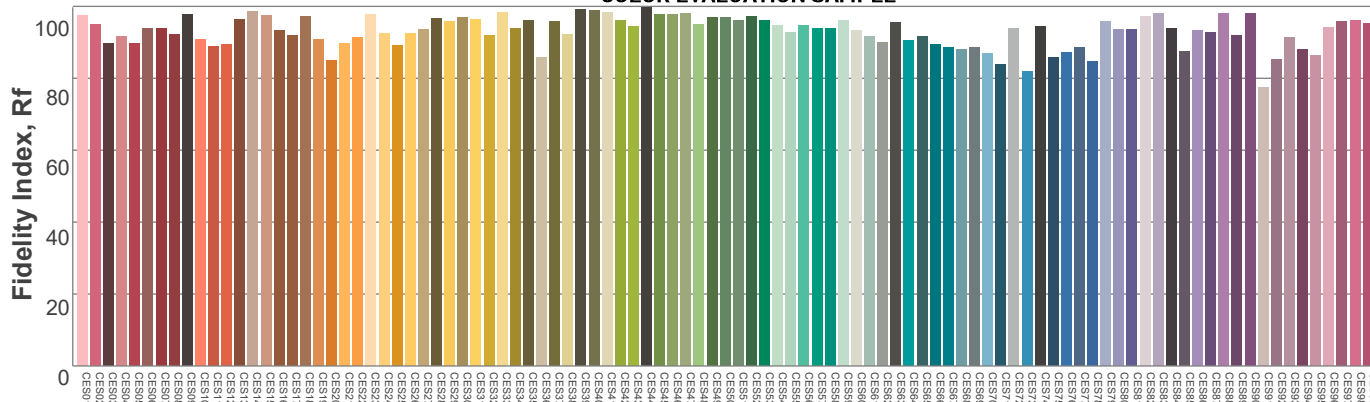
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



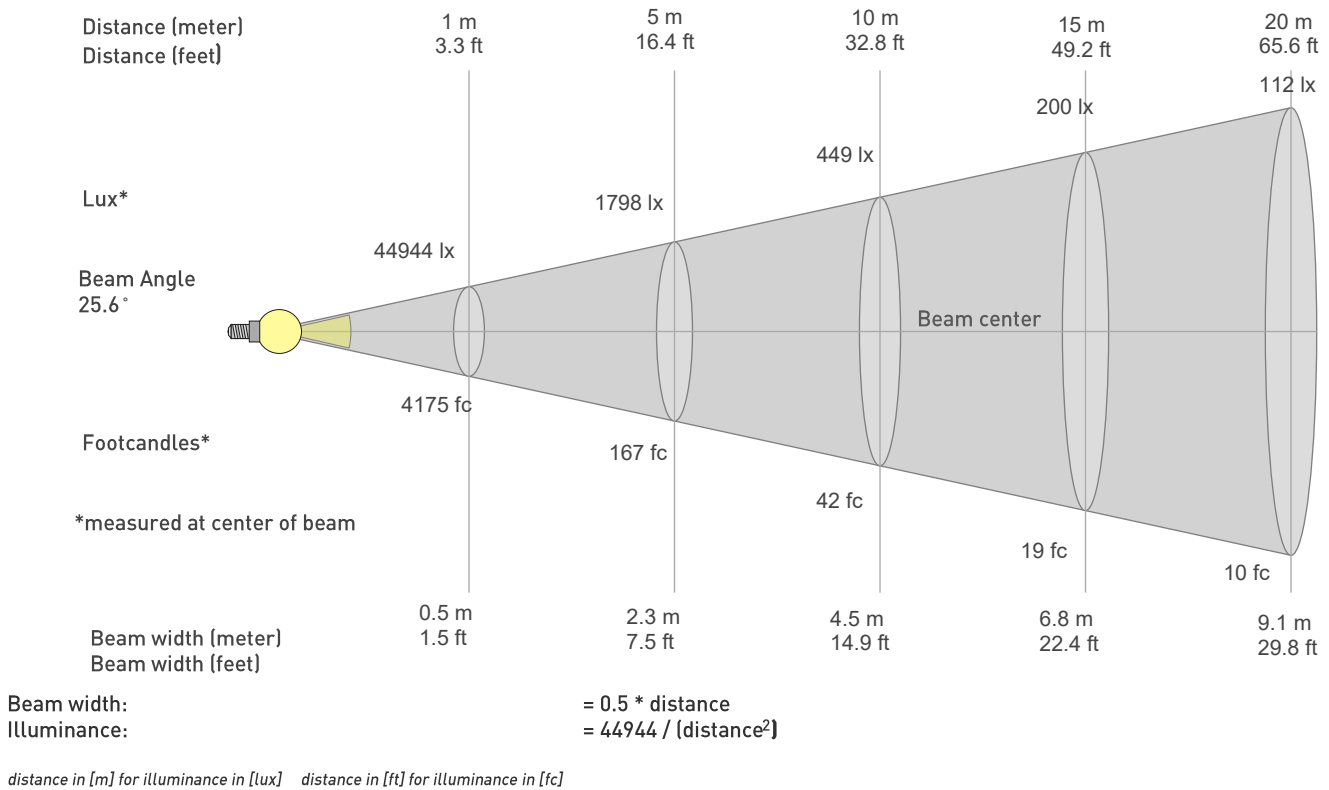
COLOR EVALUATION SAMPLE



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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
44944lx	11236lx	4994lx	2809lx	1798lx	1248lx	917lx	702lx	555lx	449lx	371lx	312lx	266lx	229lx	200lx	176lx	156lx	139lx	124lx	112lx
4175.4fc	1043.9fc	463.9fc	261fc	167fc	116fc	85.2fc	65.2fc	51.5fc	41.8fc	34.5fc	29fc	24.7fc	21.3fc	18.6fc	16.3fc	14.4fc	12.9fc	11.6fc	10.4fc

