

Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

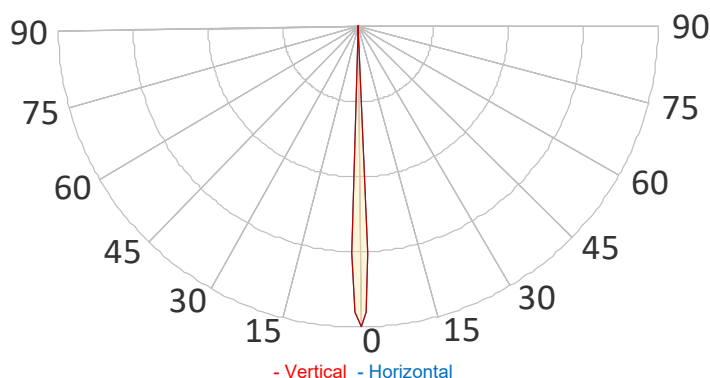
GENERAL SPECIFICATIONS

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

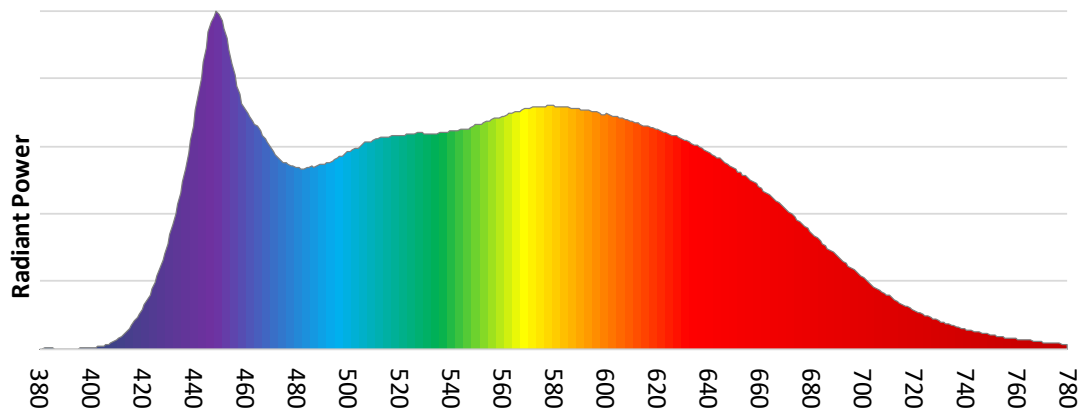


Catalog Number:	MAR-90250600HU
Measured Output:	4558 lm
Measured Peak:	730943 cd
Consumed Power:	340 W
Efficacy:	13.4 lm/W

Beam Angle (50%):	5.1°
Field Angle (10%):	5.7°
Cut-off Angle (3%):	5.9°

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

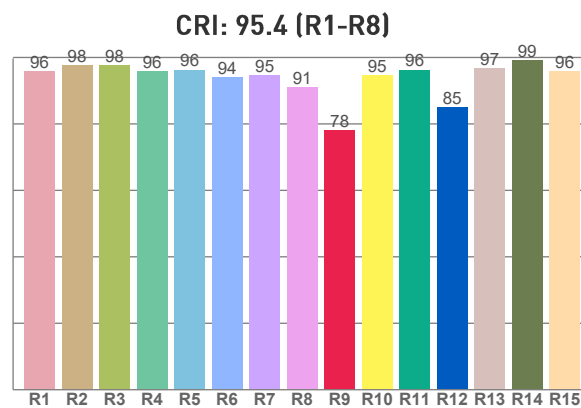
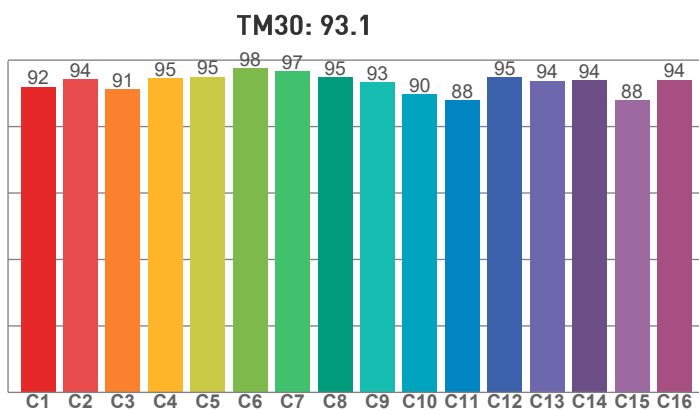
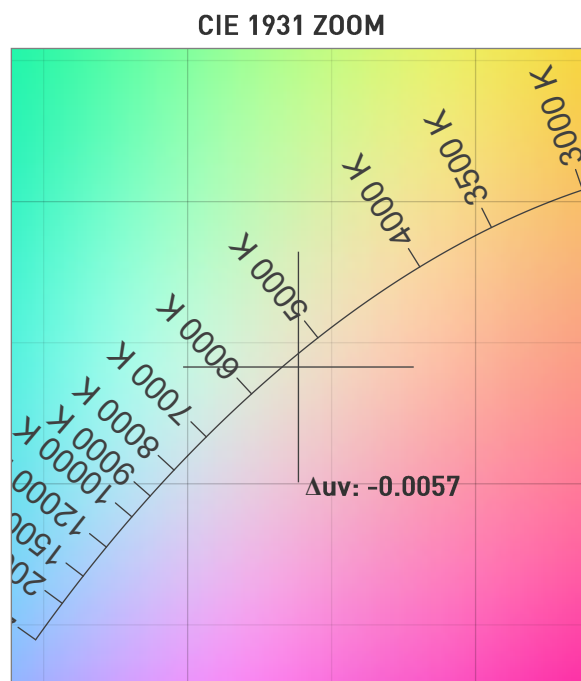
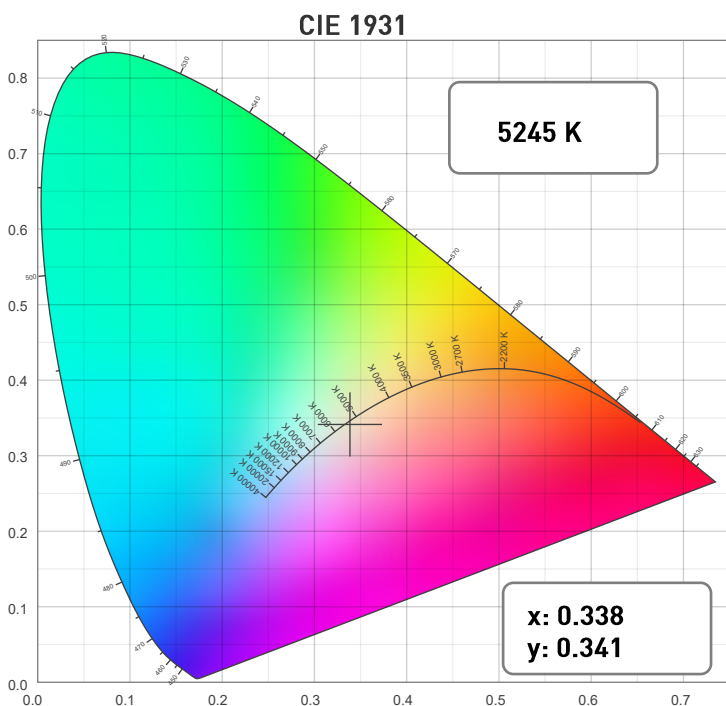
SPECTRAL DISTRIBUTION



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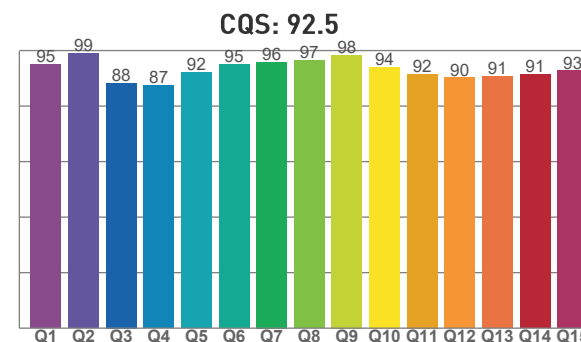
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5245 K	95.4	78.0	93.1	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	92.5	0.338	0.341	0.211	0.319	-0.0057

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TM30

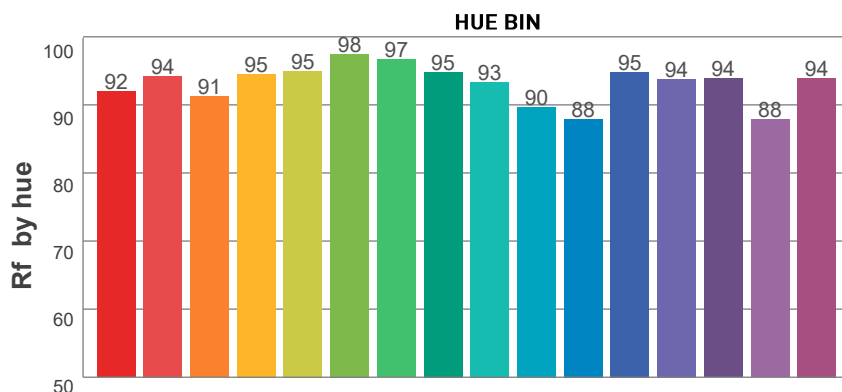
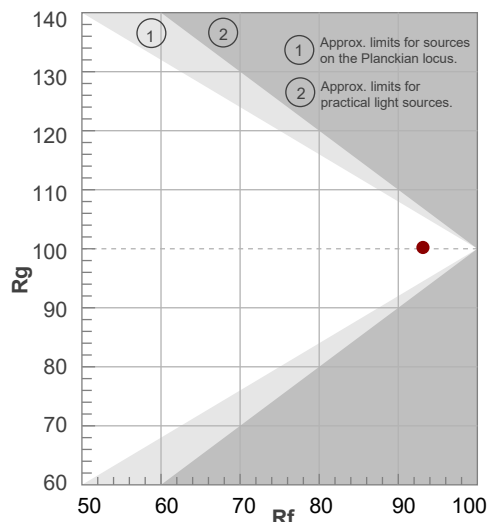
Rf 93.1

Fidelity index Rf

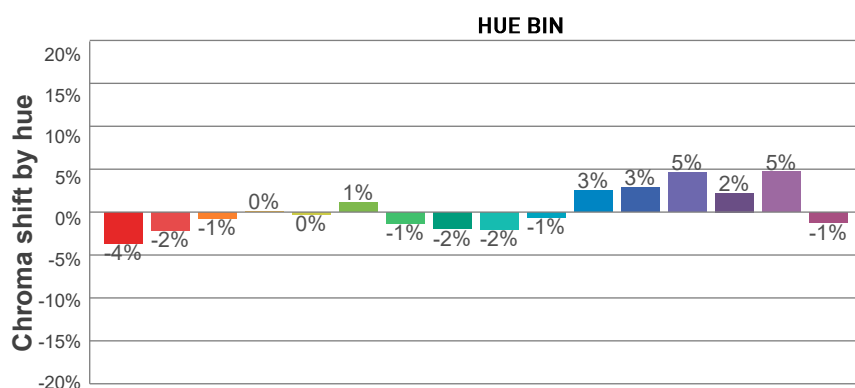
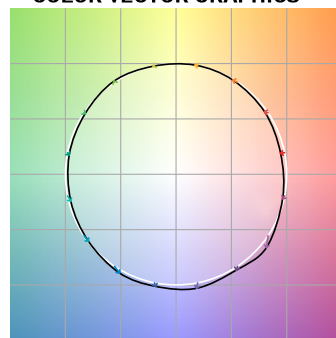
Rg 100.2

Gamut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	94	-2%	2%
3	91	-1%	5%
4	95	0%	2%
5	95	0%	1%
6	98	1%	0%
7	97	-1%	0%
8	95	-2%	2%
9	93	-2%	5%
10	90	-1%	6%
11	88	3%	7%
12	95	3%	2%
13	94	5%	-2%
14	94	2%	-3%
15	88	5%	-10%
16	94	-1%	-3%



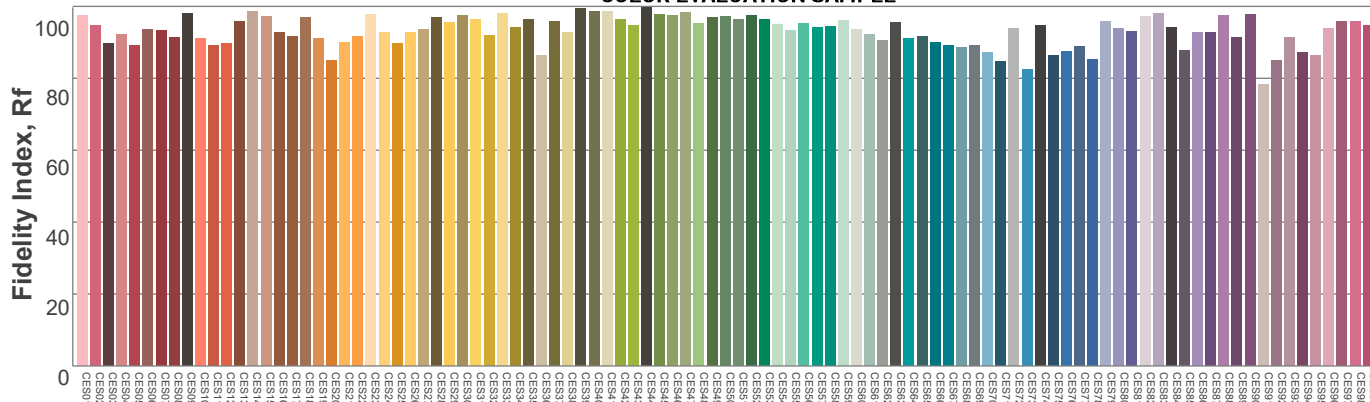
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



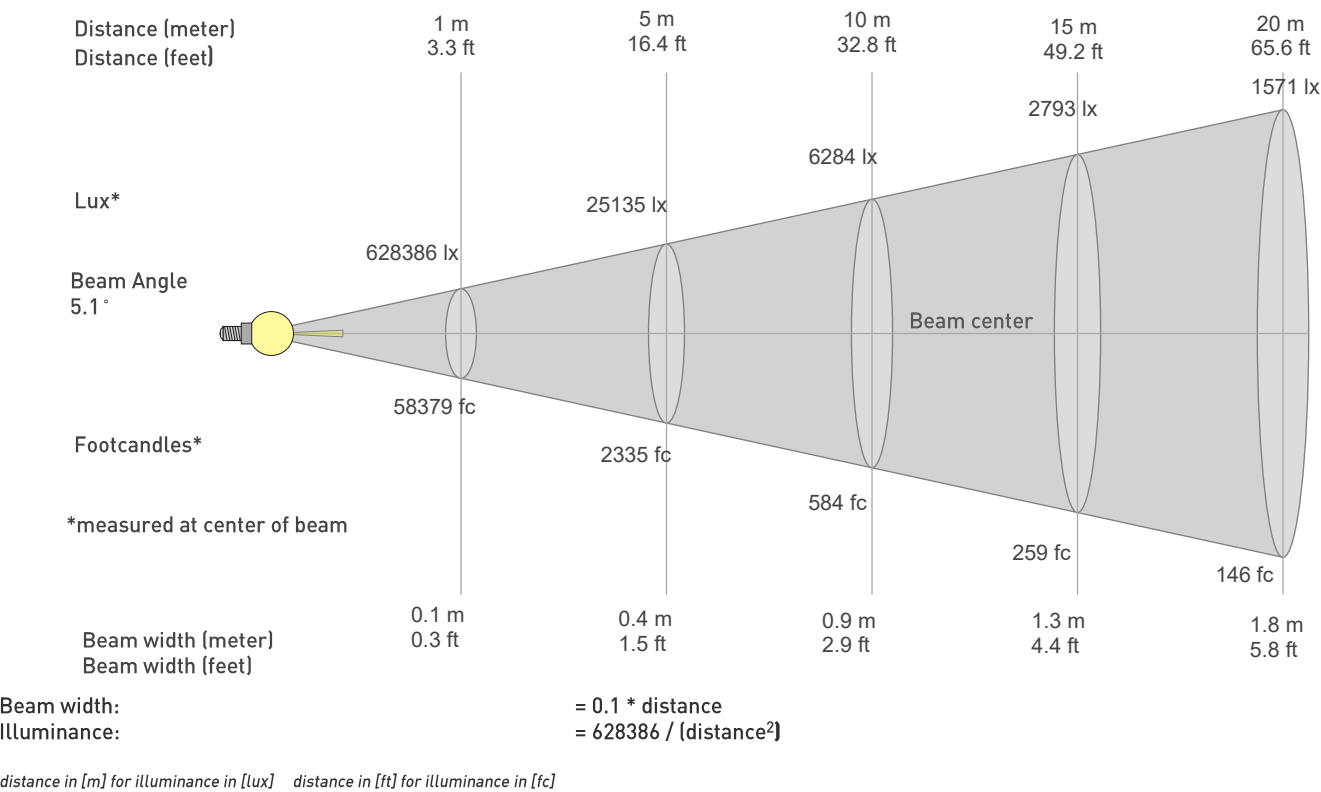
COLOR EVALUATION SAMPLE



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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
628386lx	157096lx	69821lx	39274lx	25135lx	17455lx	12824lx	9819lx	7758lx	6284lx	5193lx	4364lx	3718lx	3206lx	2793lx	2455lx	2174lx	1939lx	1741lx	1571lx
58379fc	14594.7fc	6486.6fc	3648.7fc	2335.2fc	1621.6fc	1191.4fc	912.2fc	720.7fc	583.8fc	482.5fc	405.4fc	345.4fc	297.9fc	259.5fc	228fc	202fc	180.2fc	161.7fc	145.9fc

