

Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

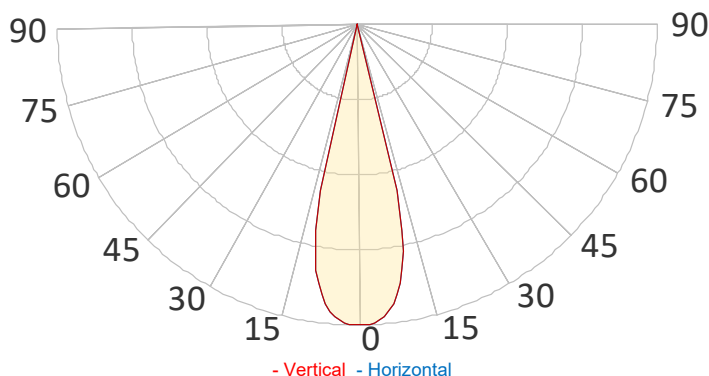
GENERAL SPECIFICATIONS

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

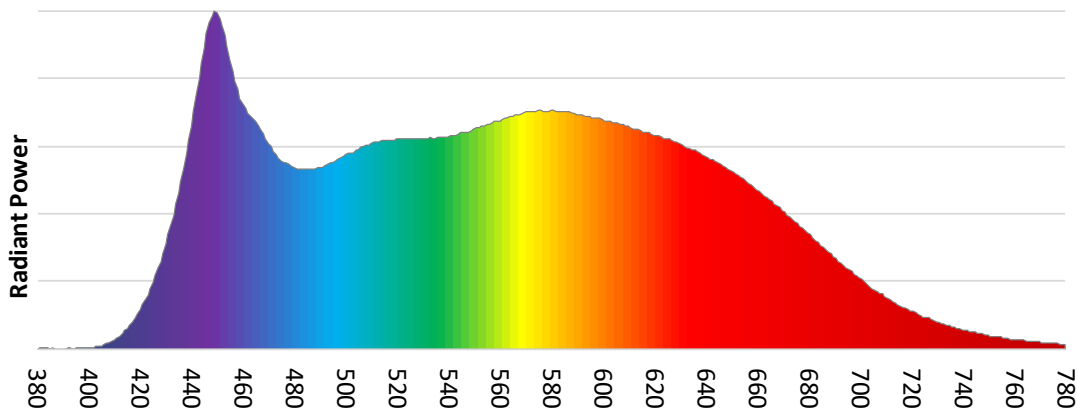


Catalog Number:	MAR-90250600HU
Measured Output:	12100 lm
Measured Peak:	87897 cd
Consumed Power:	737 W
Efficacy:	16.4 lm/W

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 Medium
Fixture Warm-up Time:	30 minutes

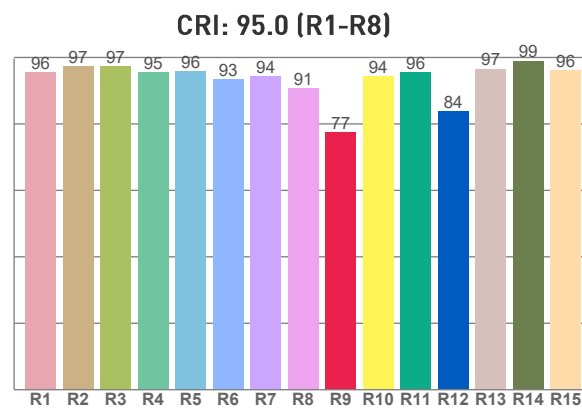
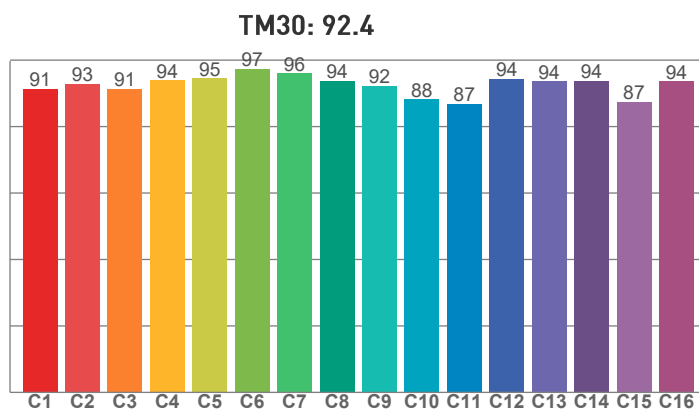
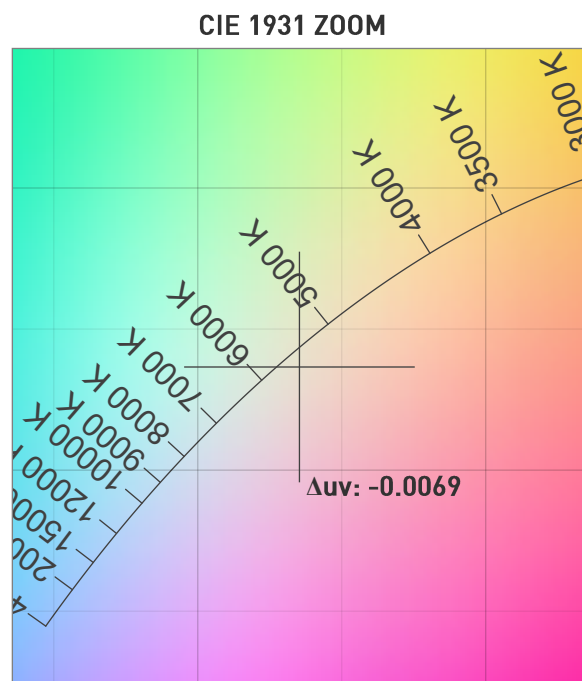
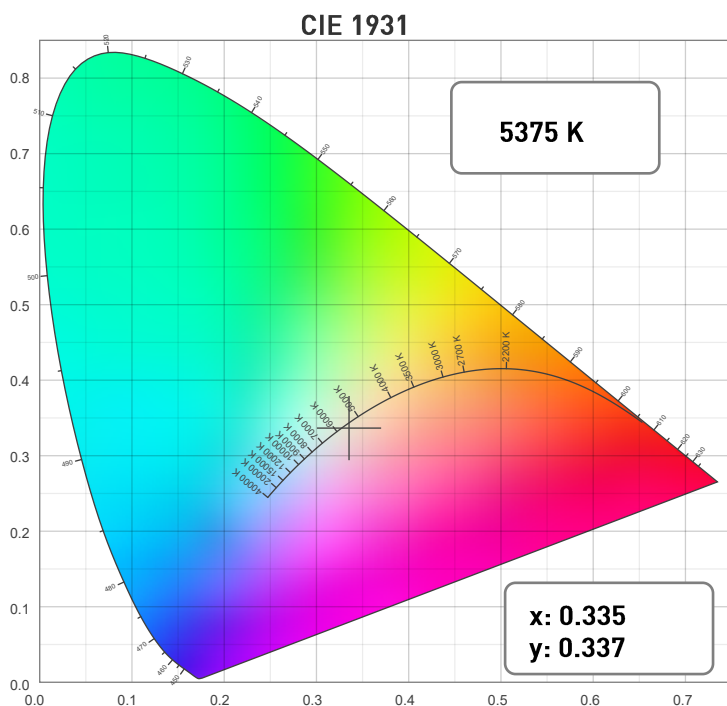
SPECTRAL DISTRIBUTION



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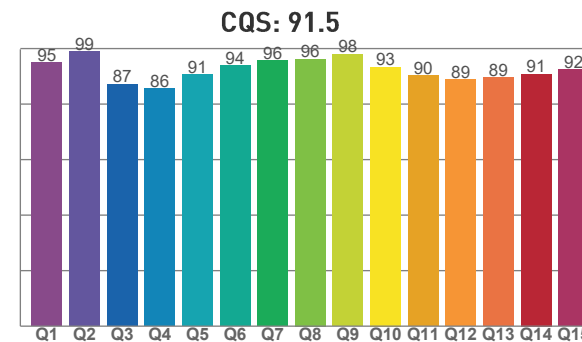
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5375 K	95.0	77.4	92.4	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	91.5	0.335	0.337	0.211	0.317	-0.0069

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TM30

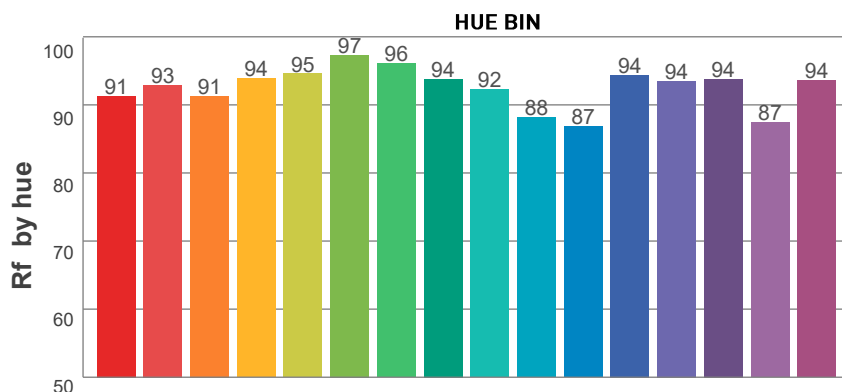
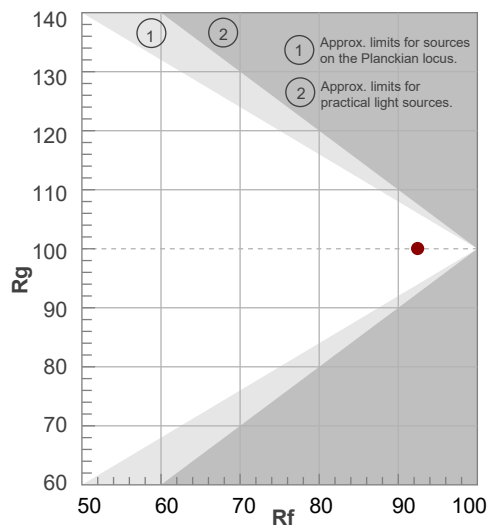
Rf 92.4

Fidelity index Rf

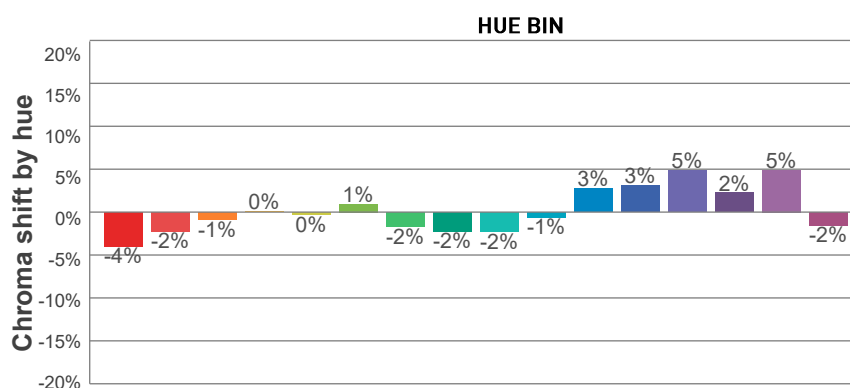
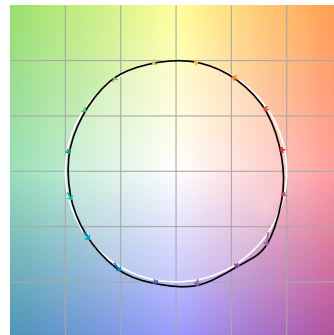
Rg 100.0

Gamut index Rg

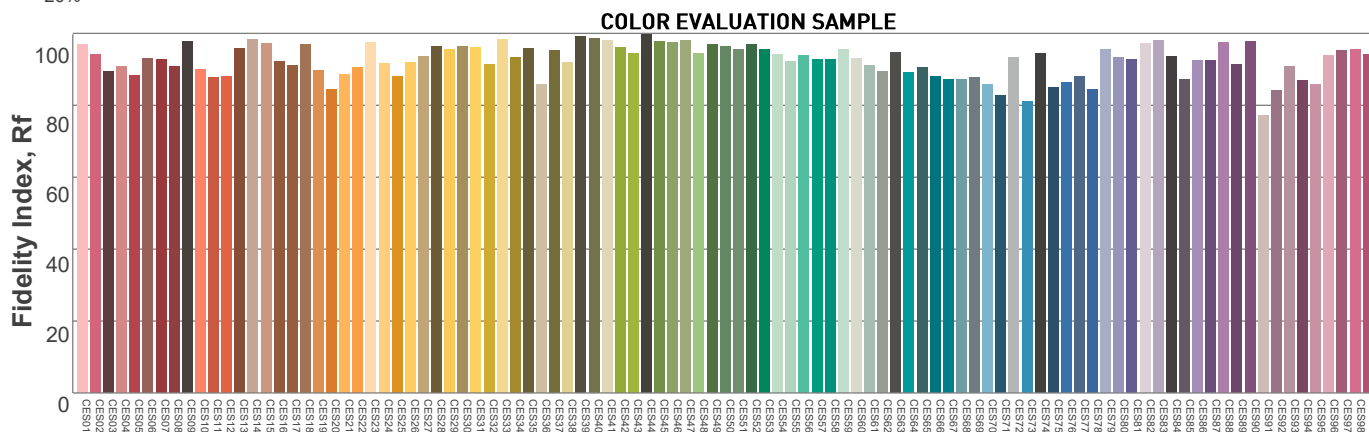
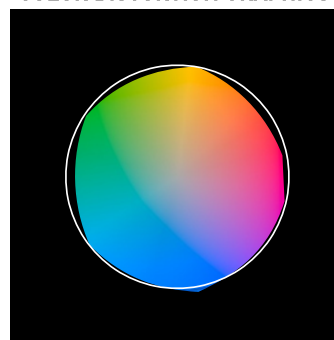
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	0%
2	93	-2%	3%
3	91	-1%	5%
4	94	0%	3%
5	95	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	92	-2%	6%
10	88	-1%	7%
11	87	3%	8%
12	94	3%	2%
13	94	5%	-2%
14	94	2%	-3%
15	87	5%	-10%
16	94	-2%	-3%



COLOR VECTOR GRAPHICS



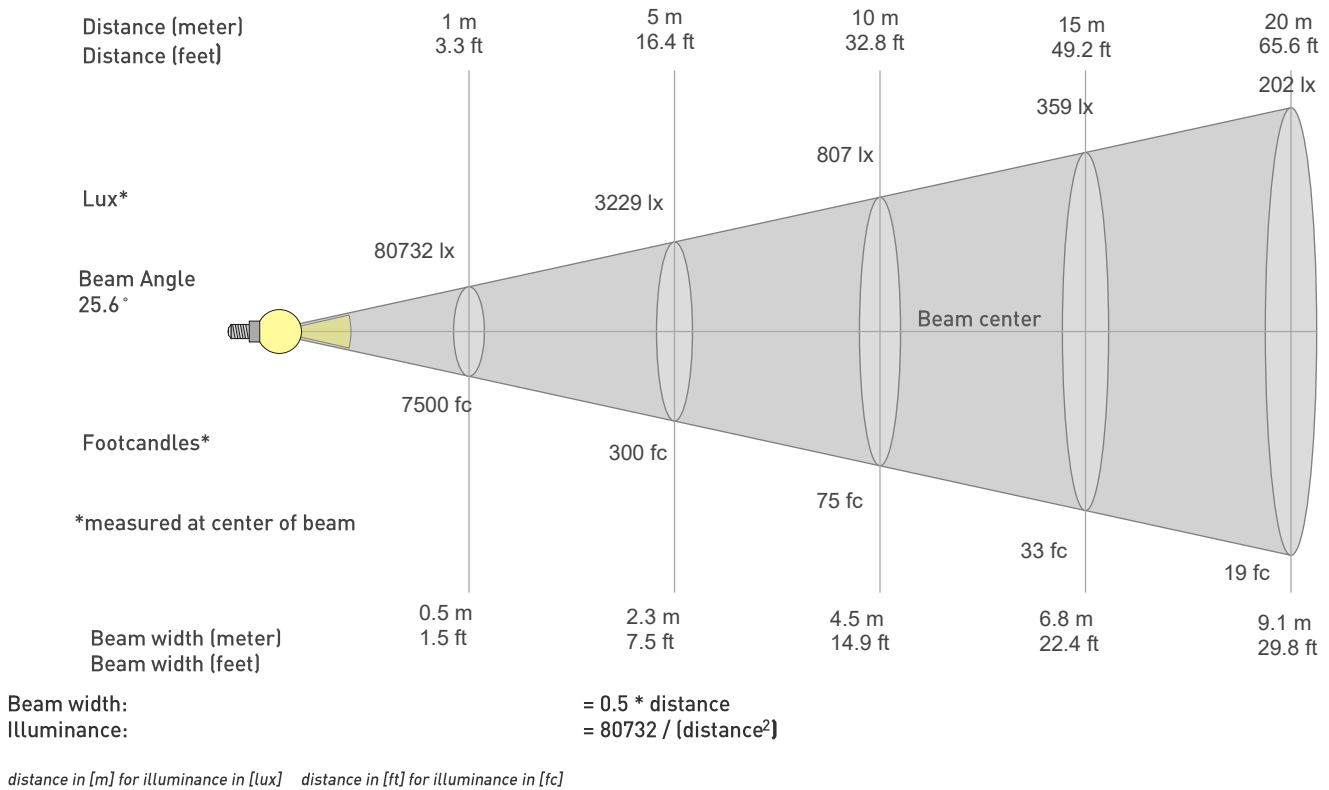
COLOR DISTORTION GRAPHICS



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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
80732lx	20183lx	8970lx	5046lx	3229lx	2243lx	1648lx	1261lx	997lx	807lx	667lx	561lx	478lx	412lx	359lx	315lx	279lx	249lx	224lx	202lx
7500.3fc	1875.1fc	833.4fc	468.8fc	300fc	208.3fc	153.1fc	117.2fc	92.6fc	75fc	62fc	52.1fc	44.4fc	38.3fc	33.3fc	29.3fc	26fc	23.1fc	20.8fc	18.8fc

