

Photometric Report

MAC Encore Two With Spectral Enhancement Filter – 10 Degree

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

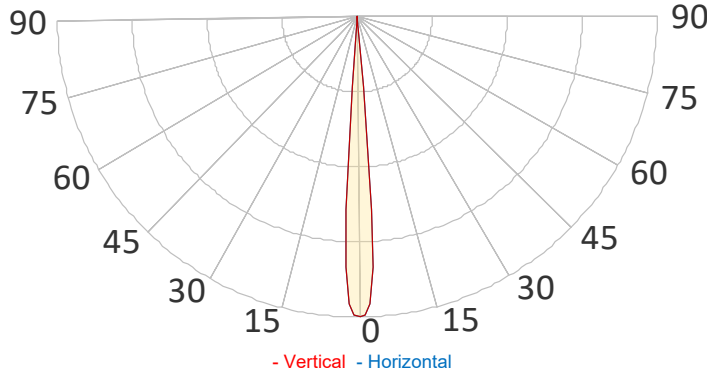
GENERAL SPECIFICATIONS

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

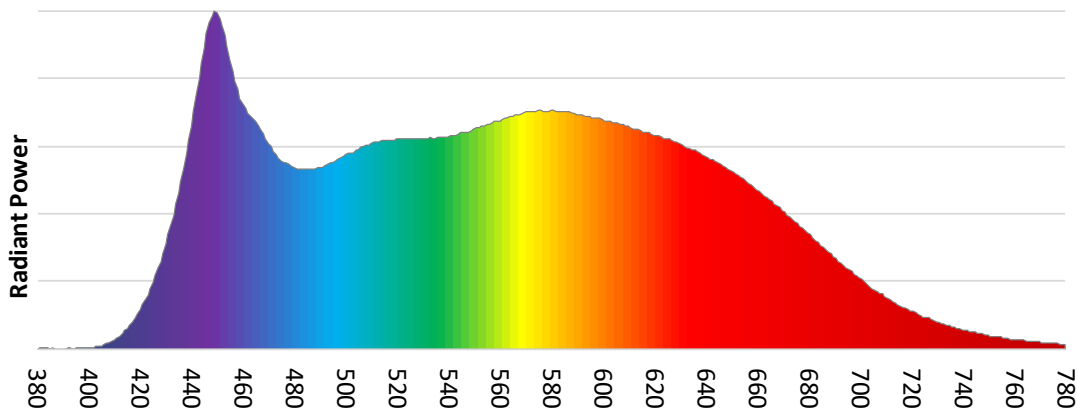


Catalog Number:	MAR-90250600HU
Measured Output:	11271 lm
Measured Peak:	586834 cd
Consumed Power:	737 W
Efficacy:	15.3 lm/W

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 Medium
Fixture Warm-up Time:	30 minutes

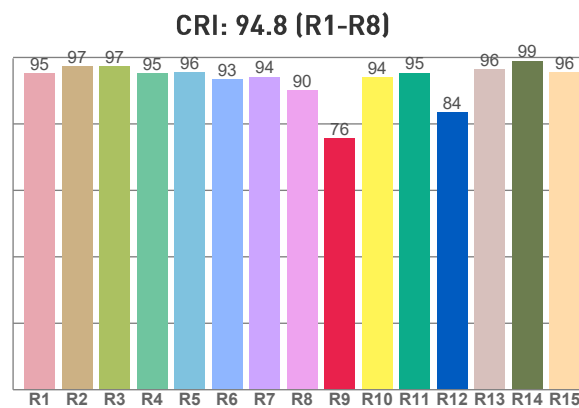
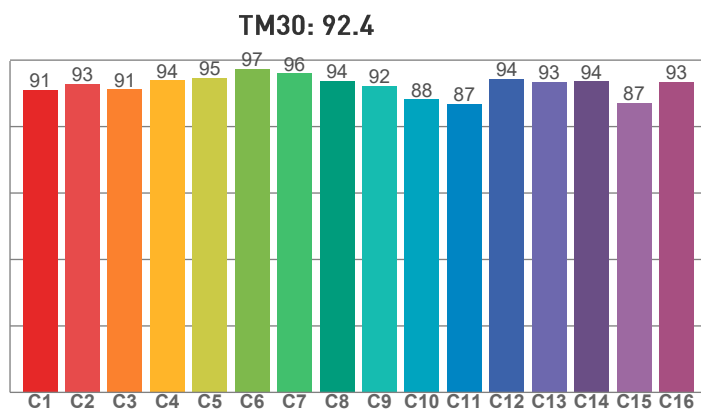
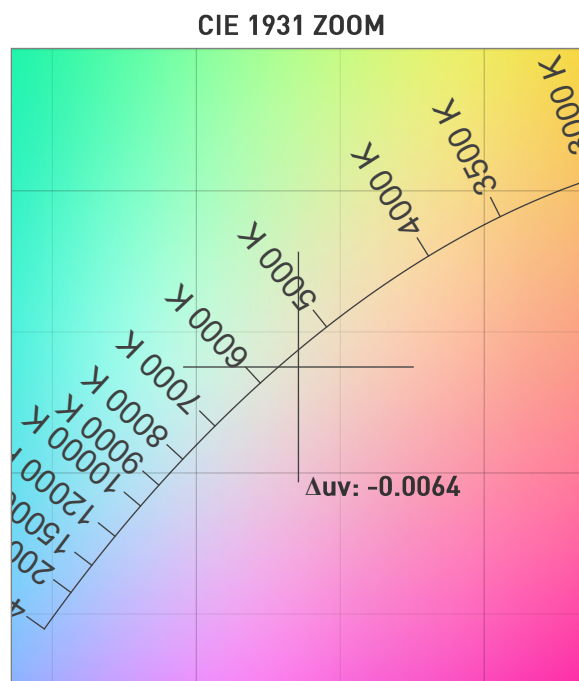
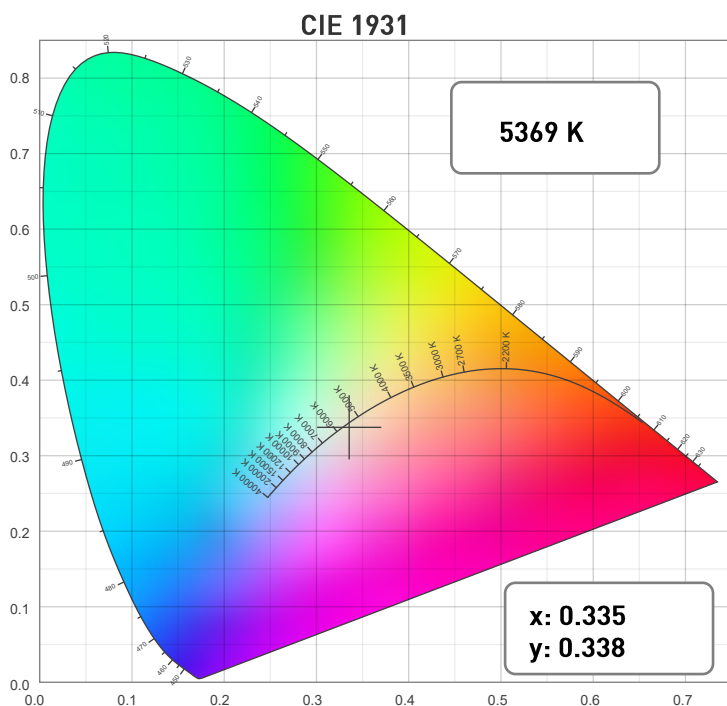
SPECTRAL DISTRIBUTION



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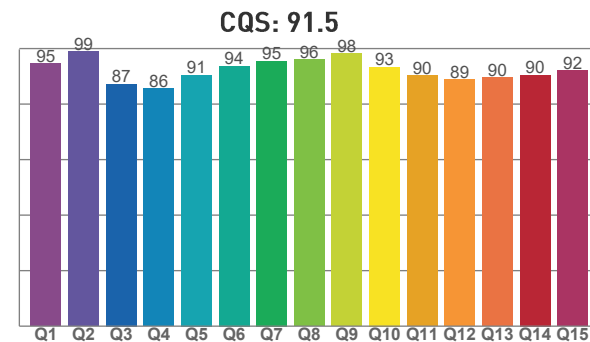
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5369 K	94.8	75.7	92.4	99.9



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	0.338	0.210	0.317	-0.0064

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TM30

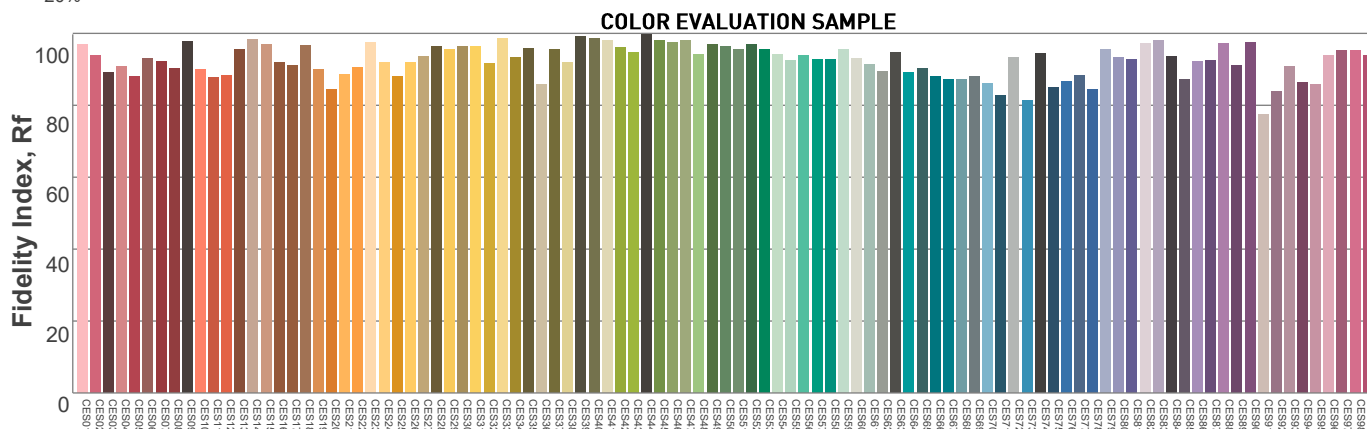
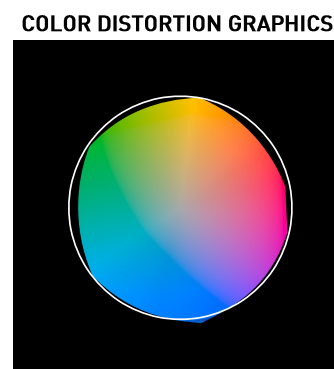
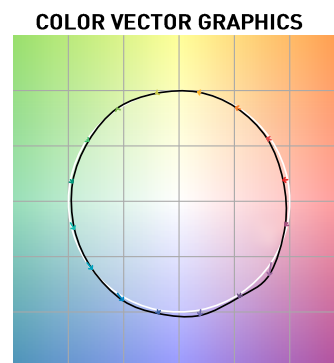
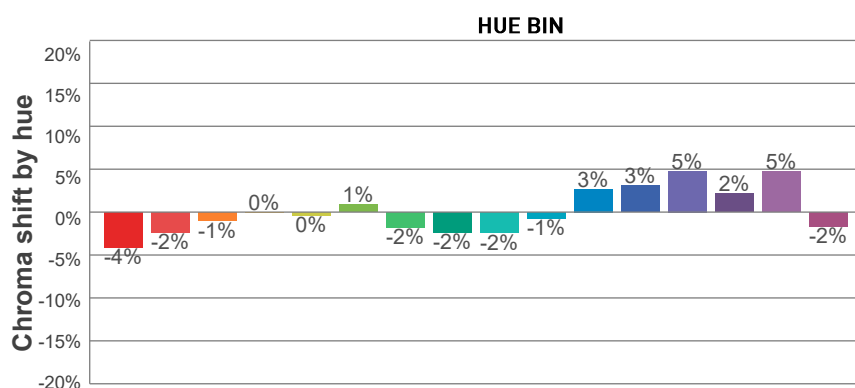
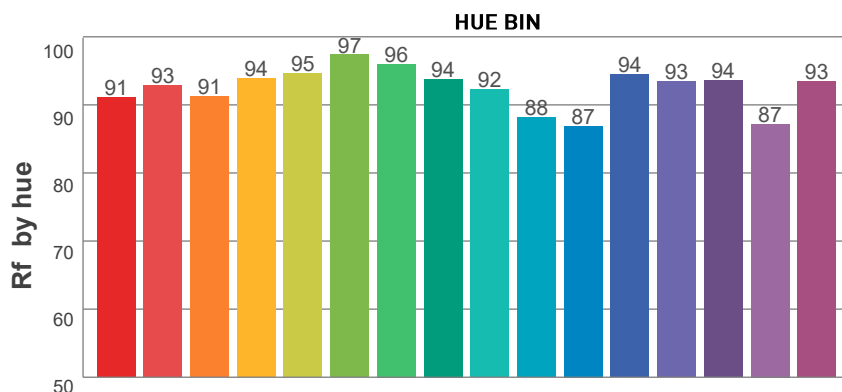
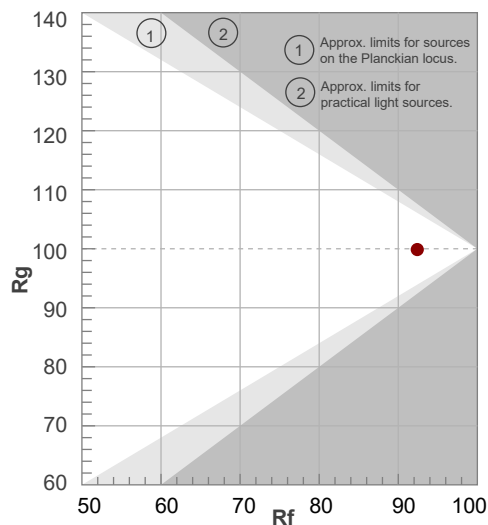
Rf 92.4

Fidelity index Rf

Rg 99.9

Gamut index Rg

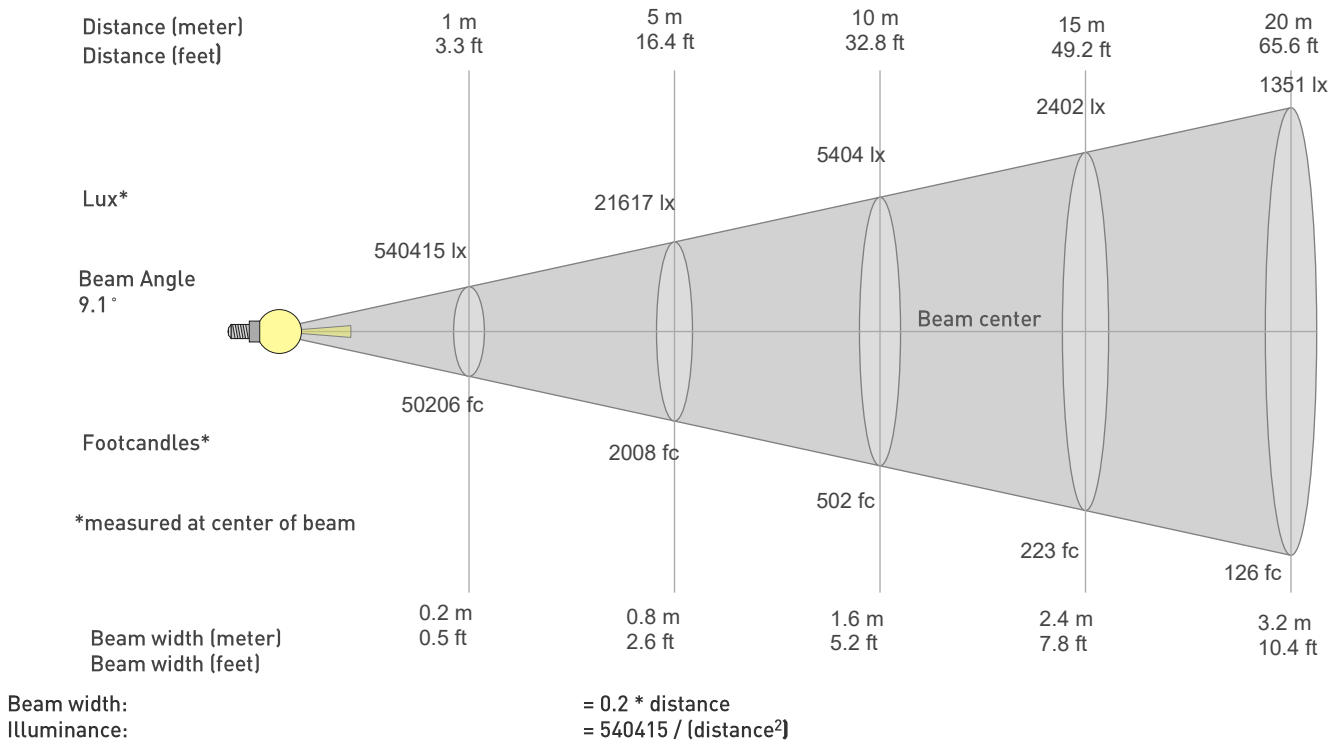
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	-4%	0%
2	93	-2%	3%
3	91	-1%	5%
4	94	0%	3%
5	95	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	92	-2%	6%
10	88	-1%	7%
11	87	3%	8%
12	94	3%	2%
13	93	5%	-2%
14	94	2%	-3%
15	87	5%	-10%
16	93	-2%	-3%



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BEAM DETAILS



distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

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
540415lx	135104lx	60046lx	33776lx	21617lx	15012lx	11029lx	8444lx	6672lx	5404lx	4466lx	3753lx	3198lx	2757lx	2402lx	2111lx	1870lx	1668lx	1497lx	1351lx
50206.2fc	12551.5fc	5578.5fc	3137.9fc	2008.2fc	1394.6fc	1024.6fc	784.5fc	619.8fc	502.1fc	414.9fc	348.7fc	297.1fc	256.2fc	223.1fc	196.1fc	173.7fc	155fc	139.1fc	125.5fc

