

Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

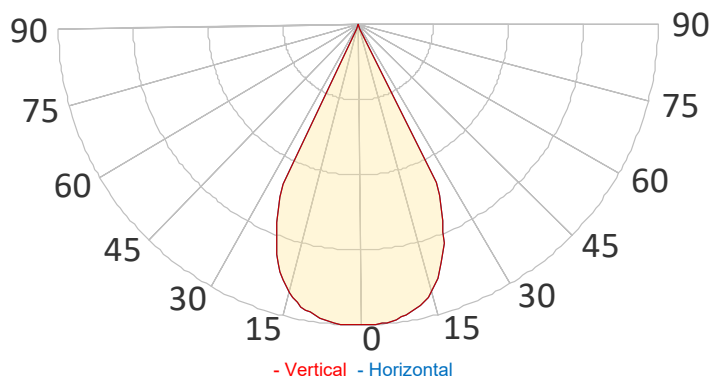
GENERAL SPECIFICATIONS

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

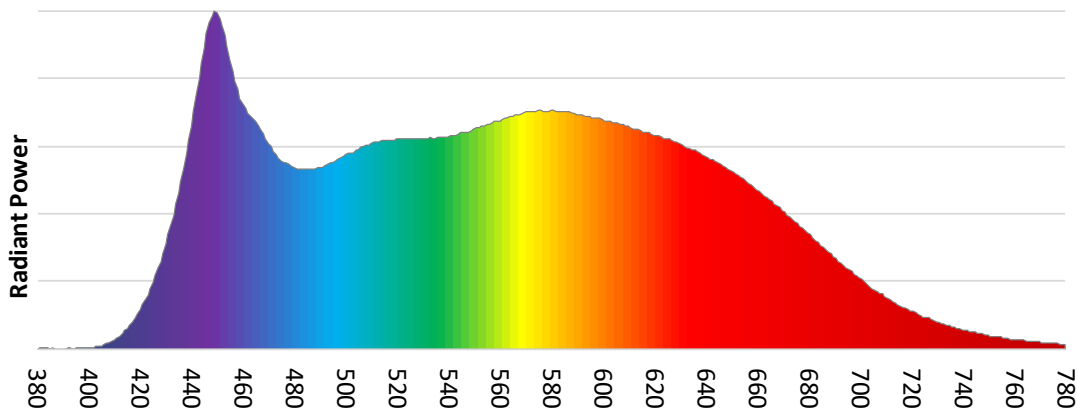


Catalog Number:	MAR-90250600HU
Measured Output:	13357 lm
Measured Peak:	26803 cd
Consumed Power:	855 W
Efficacy:	15.6 lm/W

Beam Angle (50%):	50.1°
Field Angle (10%):	53.7°
Cut-off Angle (3%):	53.9°

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

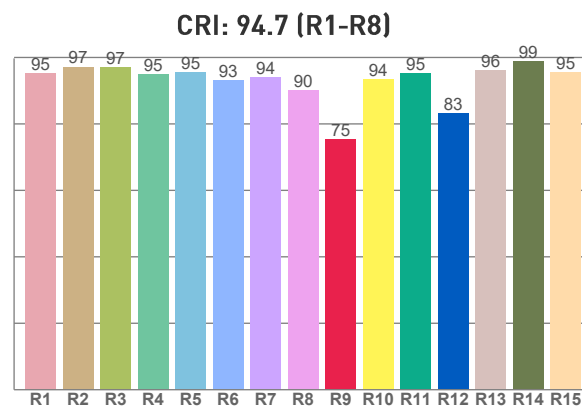
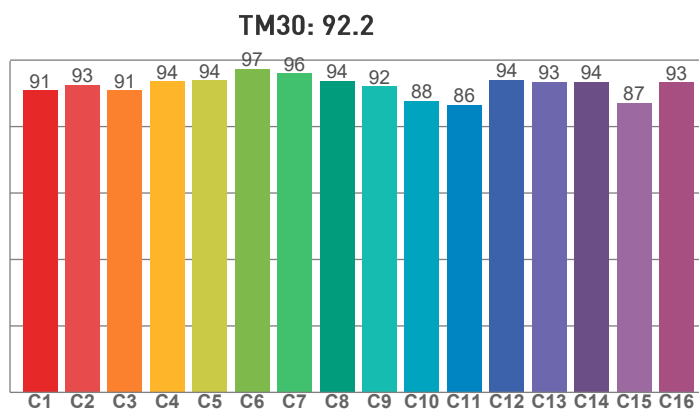
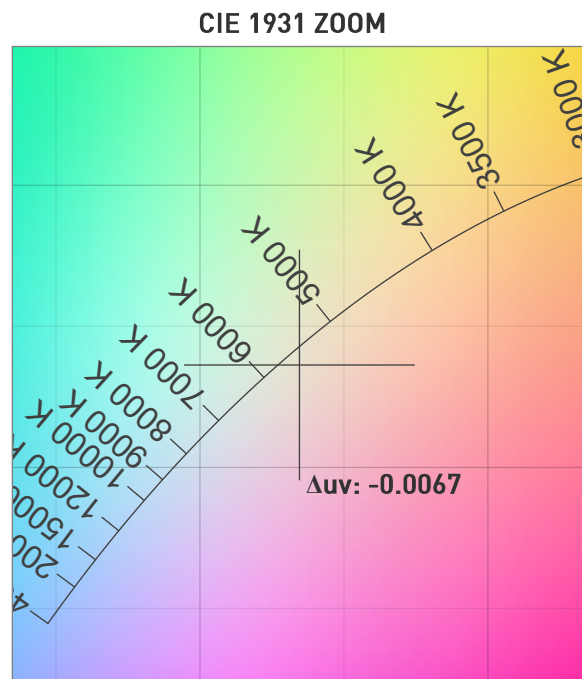
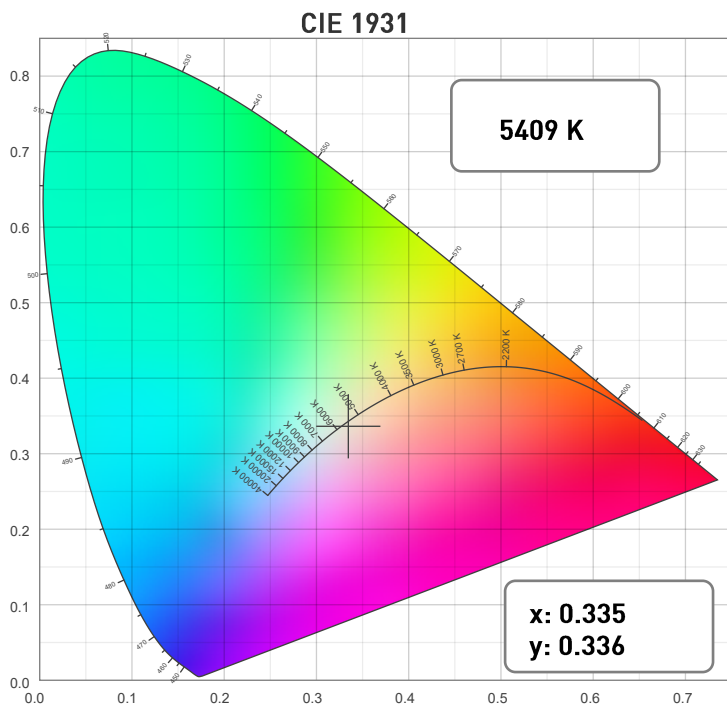
SPECTRAL DISTRIBUTION



Photometric Report

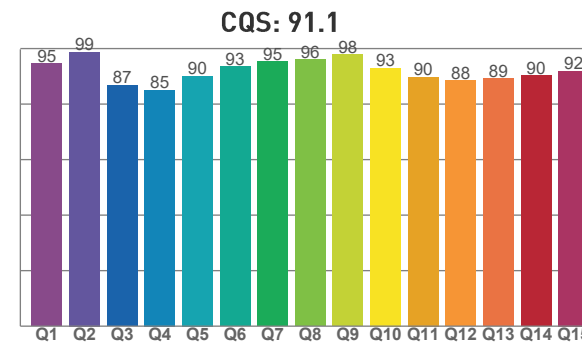
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5409 K	94.7	75.3	92.2	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	91.1	0.335	0.336	0.210	0.317	-0.0067

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TM30

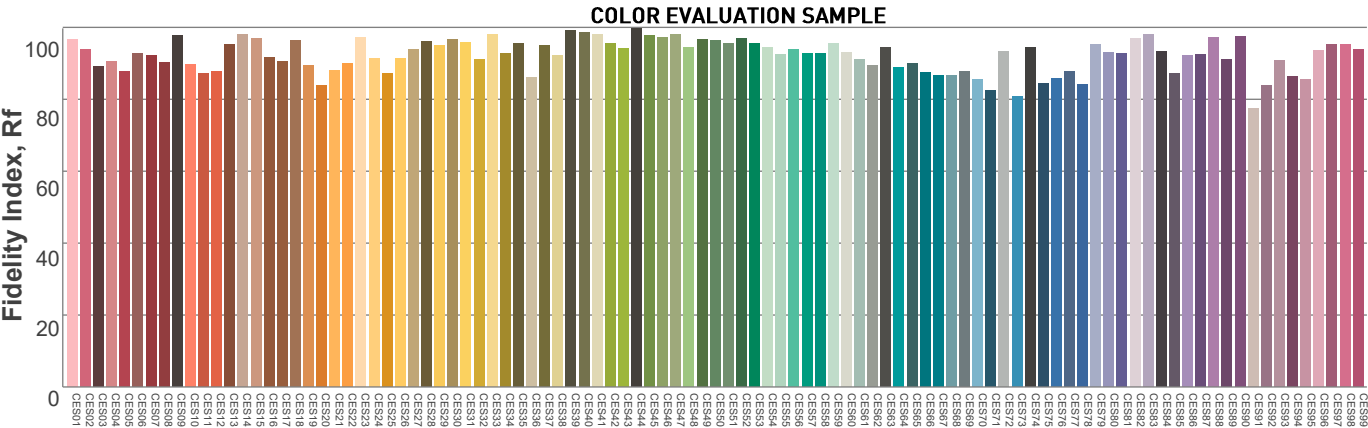
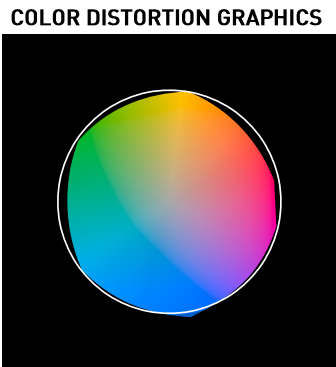
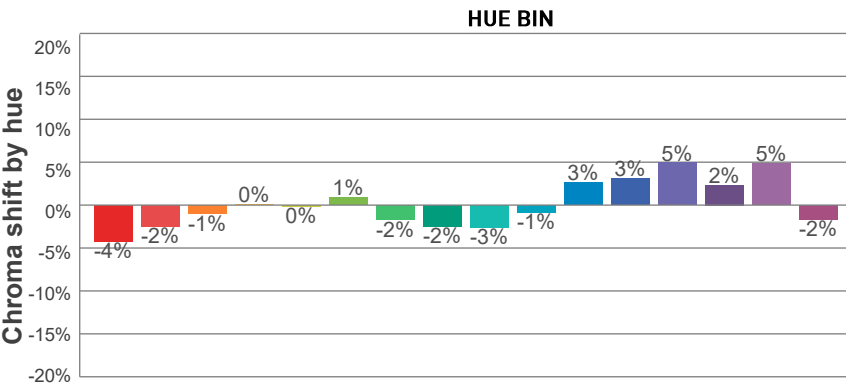
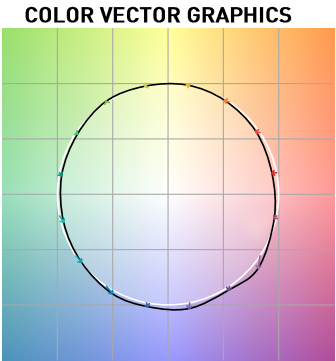
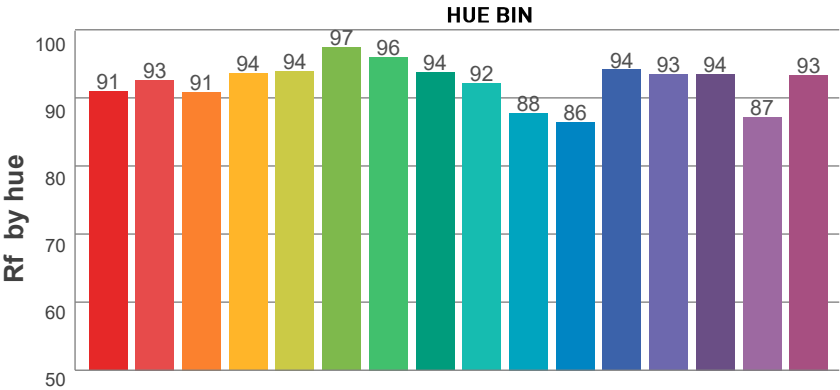
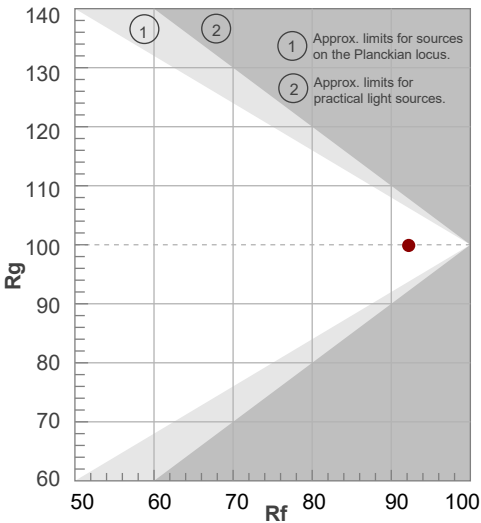
Rf 92.2

Fidelity index Rf

Rg 99.9

Gamut index Rg

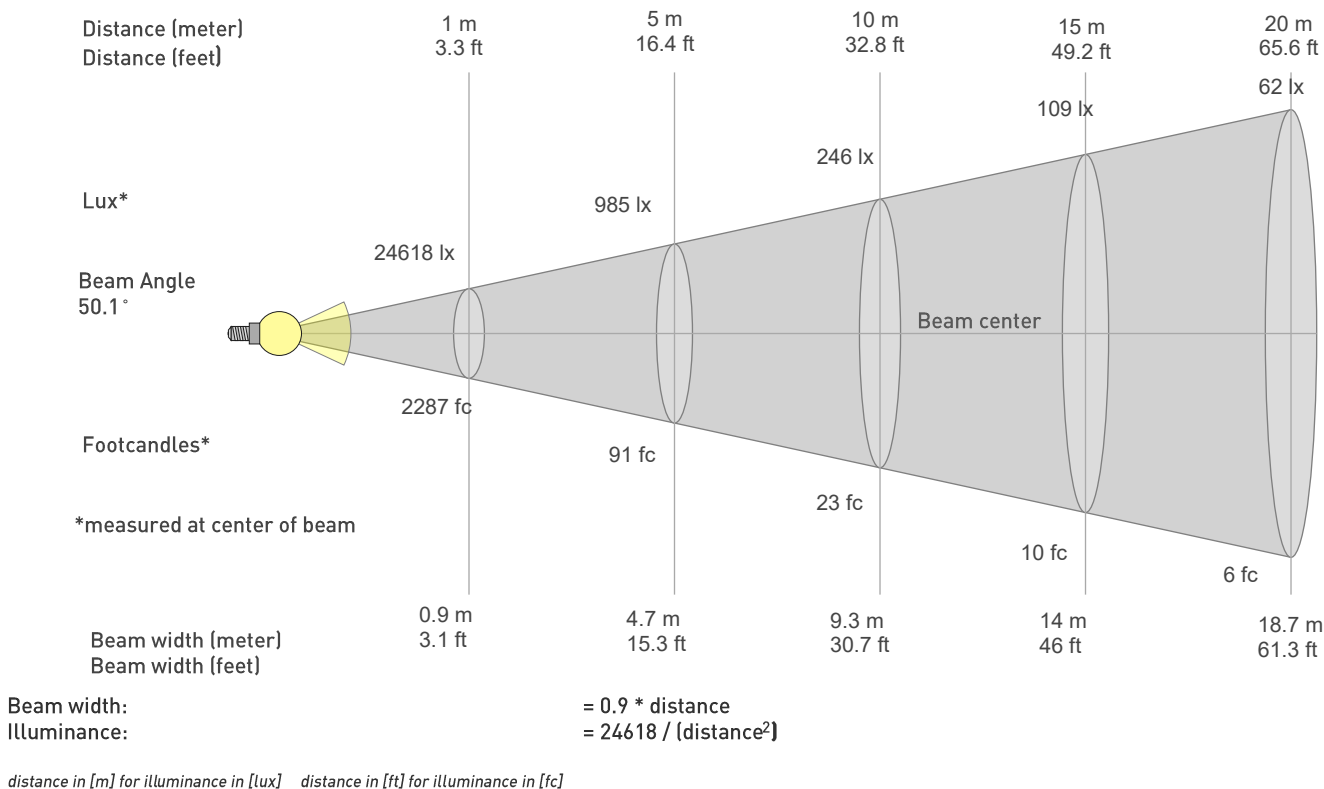
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	0%
2	93	-2%	3%
3	91	-1%	5%
4	94	0%	3%
5	94	0%	2%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	92	-3%	6%
10	88	-1%	7%
11	86	3%	8%
12	94	3%	2%
13	93	5%	-2%
14	94	2%	-3%
15	87	5%	-10%
16	93	-2%	-3%



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BEAM DETAILS



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
24618lx	6154lx	2735lx	1539lx	985lx	684lx	502lx	385lx	304lx	246lx	203lx	171lx	146lx	126lx	109lx	96lx	85lx	76lx	68lx	62lx
2287.1fc	571.8fc	254.1fc	142.9fc	91.5fc	63.5fc	46.7fc	35.7fc	28.2fc	22.9fc	18.9fc	15.9fc	13.5fc	11.7fc	10.2fc	8.9fc	7.9fc	7.1fc	6.3fc	5.7fc

