

Photometric Report

MAC Encore Two With Spectral Enhancement Filter – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

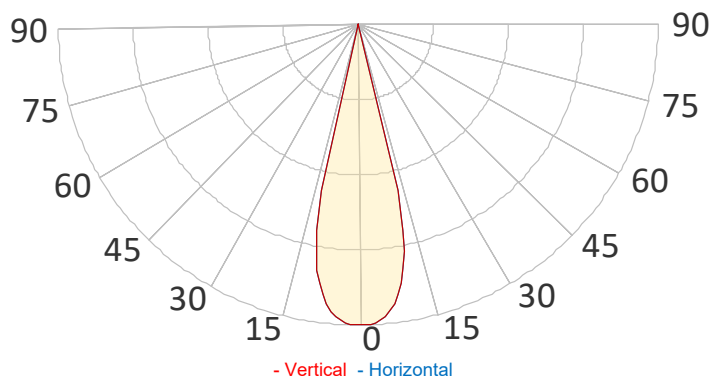
GENERAL SPECIFICATIONS

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

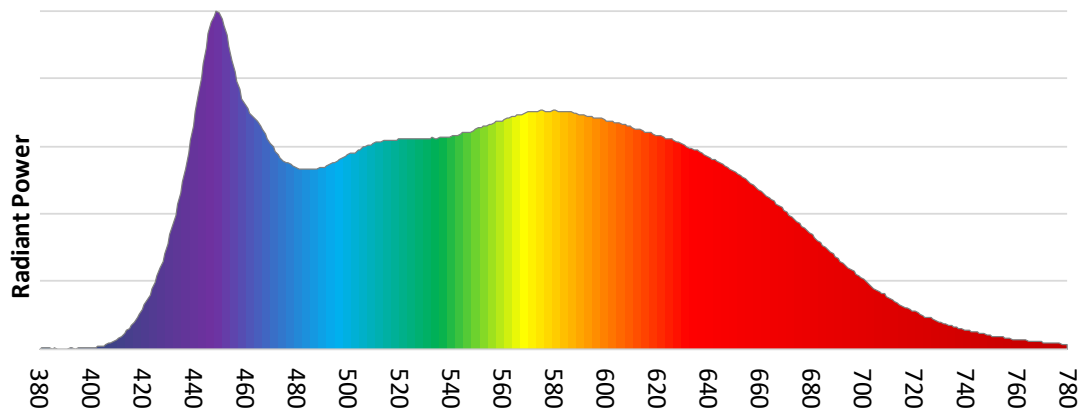


Catalog Number:	MAR-90250600HU
Measured Output:	13130 lm
Measured Peak:	95251 cd
Consumed Power:	855 W
Efficacy:	15.4 lm/W

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 High
Fixture Warm-up Time:	30 minutes

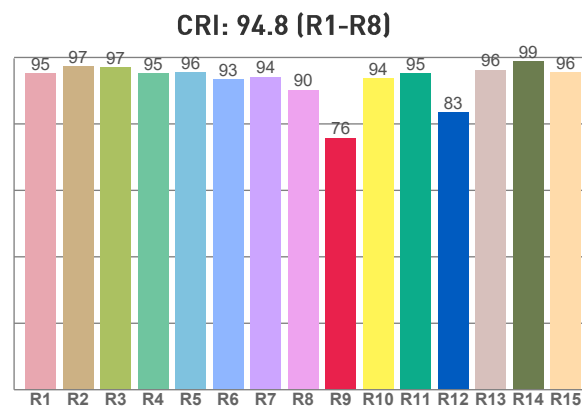
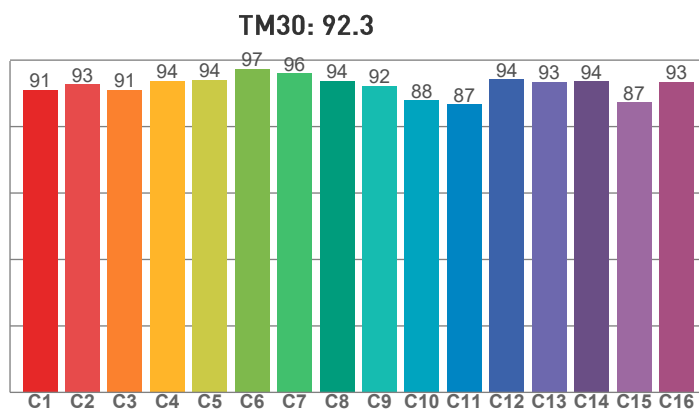
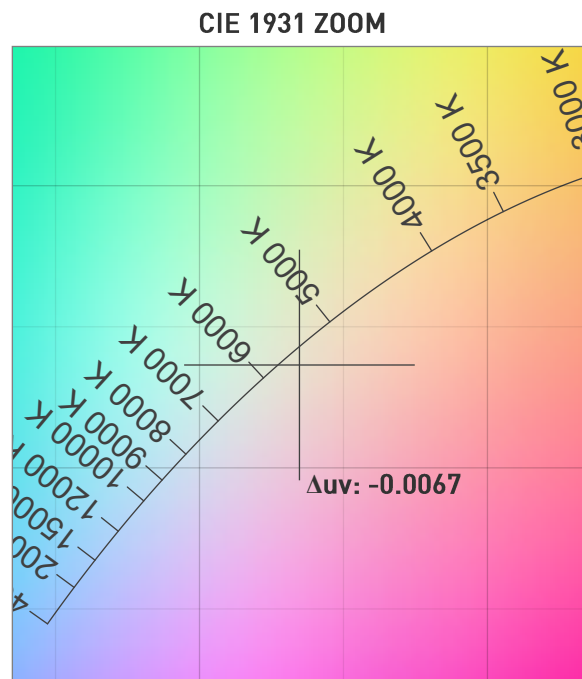
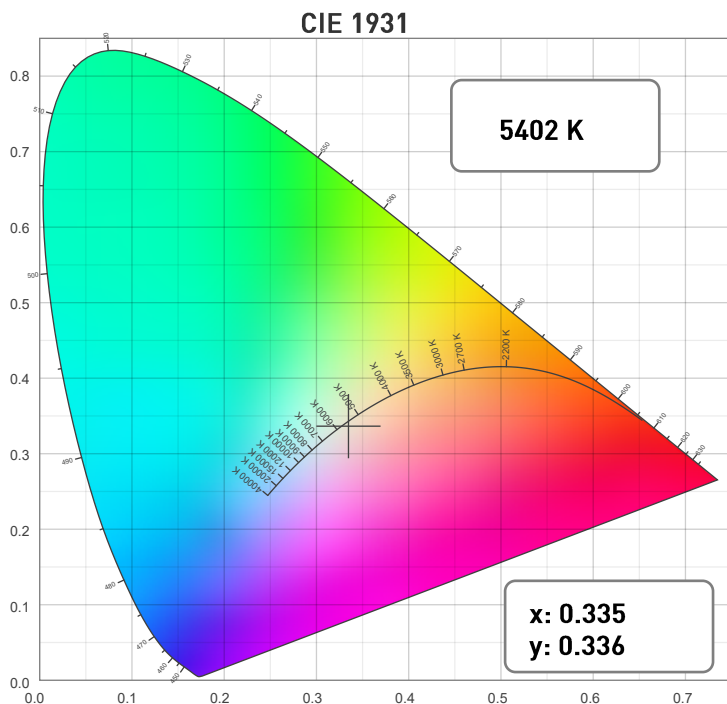
SPECTRAL DISTRIBUTION



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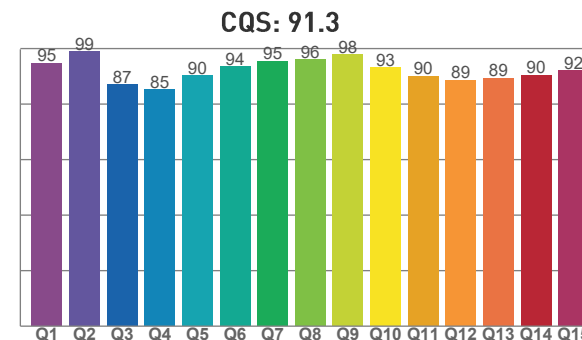
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5402 K	94.8	75.8	92.3	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	91.3	0.335	0.336	0.210	0.317	-0.0067

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TM30

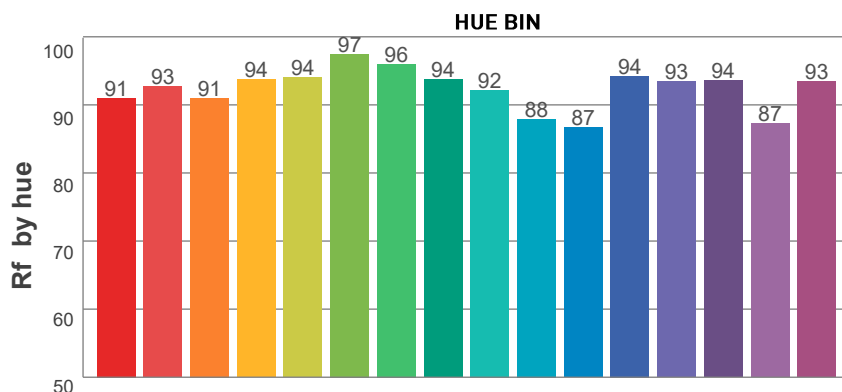
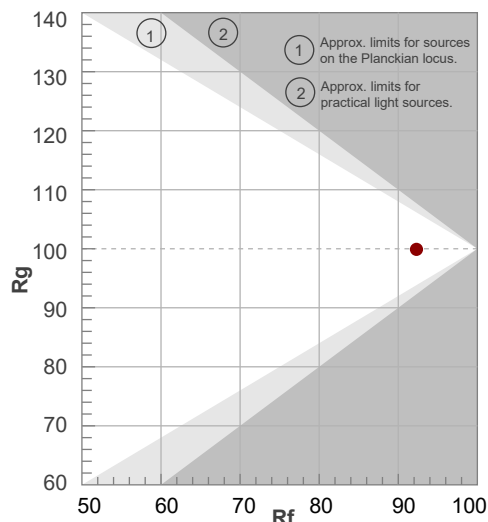
Rf 92.3

Fidelity index Rf

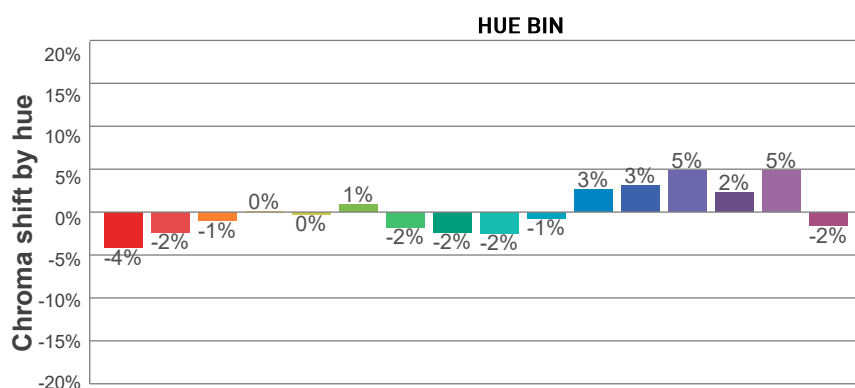
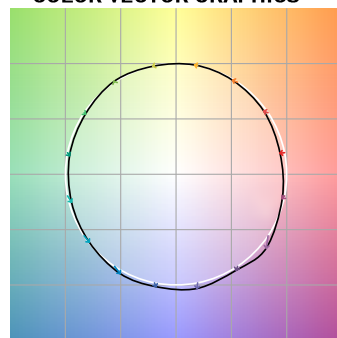
Rg 99.9

Gamut index Rg

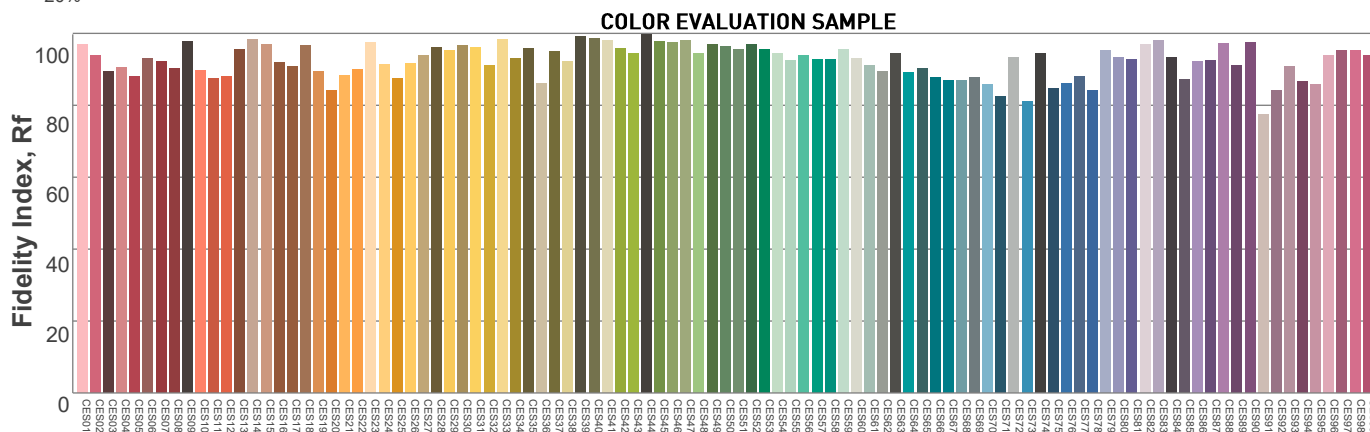
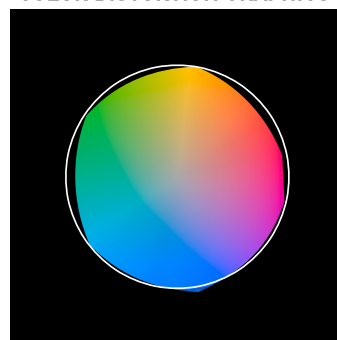
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	0%
2	93	-2%	3%
3	91	-1%	5%
4	94	0%	3%
5	94	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	92	-2%	6%
10	88	-1%	7%
11	87	3%	8%
12	94	3%	2%
13	93	5%	-2%
14	94	2%	-3%
15	87	5%	-10%
16	93	-2%	-3%



COLOR VECTOR GRAPHICS



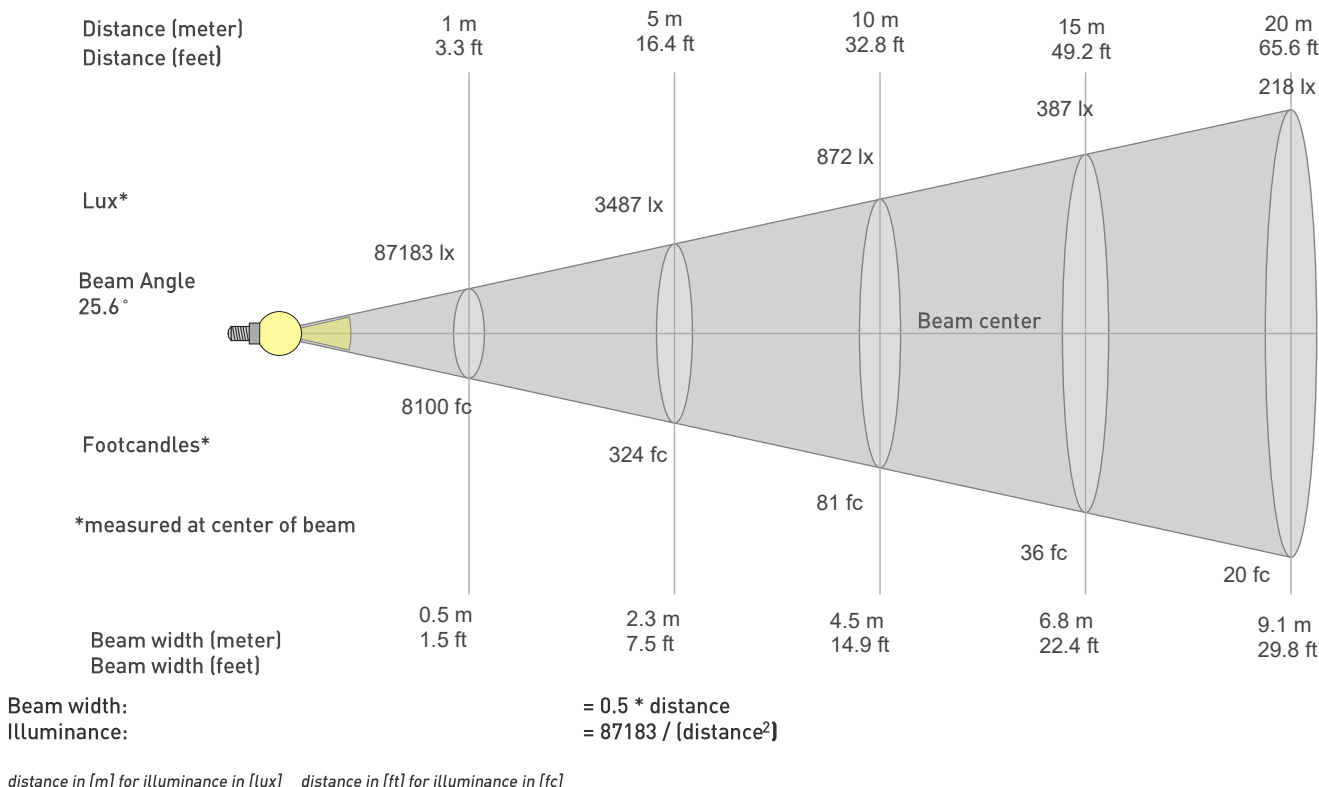
COLOR DISTORTION GRAPHICS



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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
87183lx	21796lx	9687lx	5449lx	3487lx	2422lx	1779lx	1362lx	1076lx	872lx	721lx	605lx	516lx	445lx	387lx	341lx	302lx	269lx	242lx	218lx
8099.6fc	2024.9fc	900fc	506.2fc	324fc	225fc	165.3fc	126.6fc	100fc	81fc	66.9fc	56.2fc	47.9fc	41.3fc	36fc	31.6fc	28fc	25fc	22.4fc	20.2fc

