

# Photometric Report

## MAC Encore Two With Spectral Enhancement Filter – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

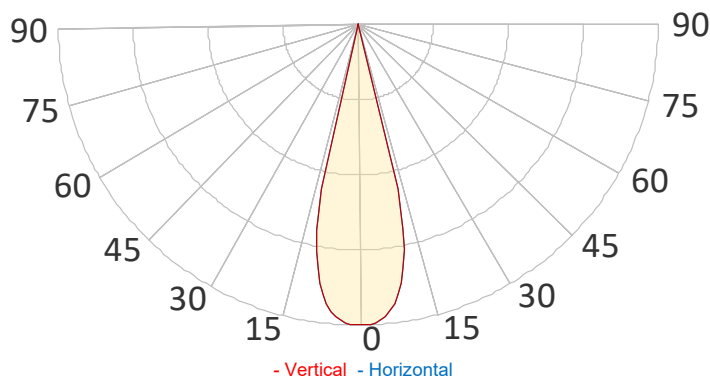
### GENERAL SPECIFICATIONS

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

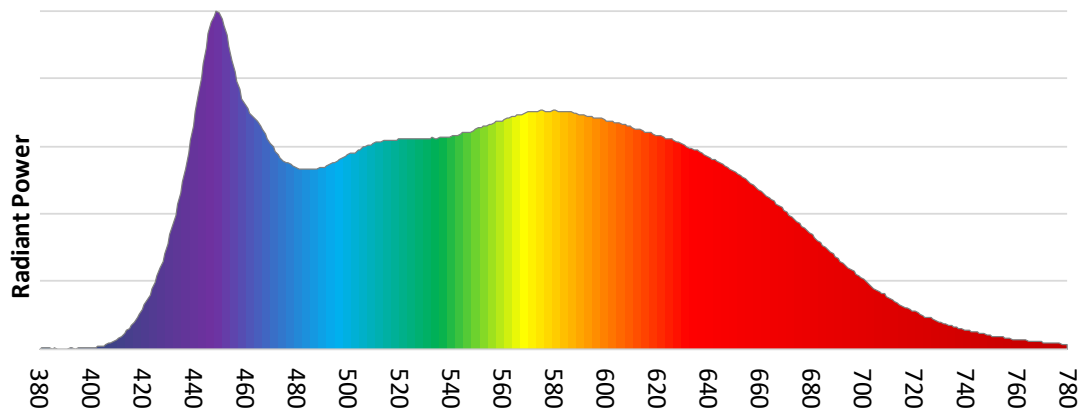


Catalog Number:	MAR-90250600HU
Measured Output:	9348 lm
Measured Peak:	68208 cd
Consumed Power:	504 W
Efficacy:	18.5 lm/W

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 Low
Fixture Warm-up Time:	30 minutes

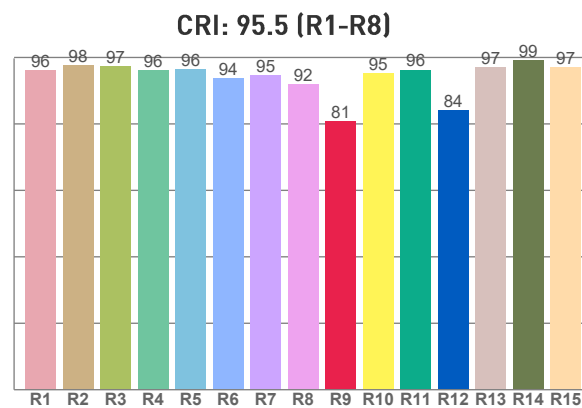
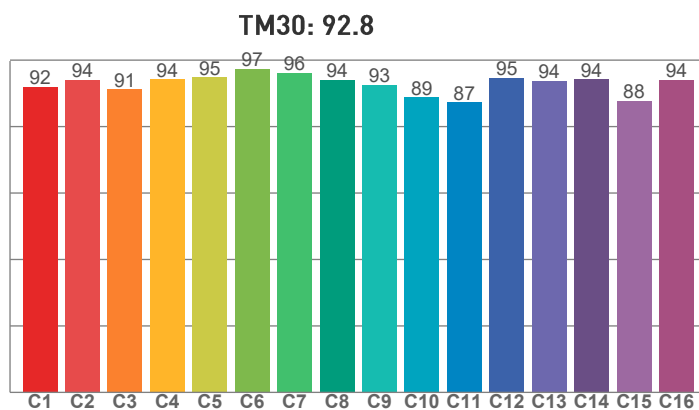
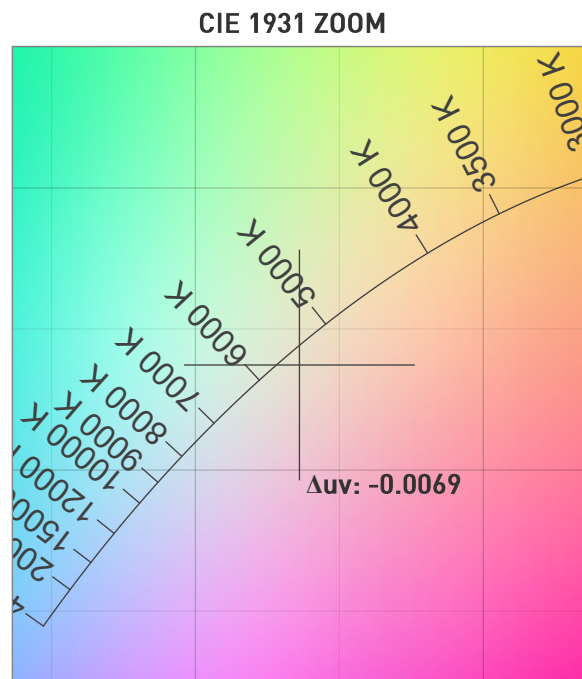
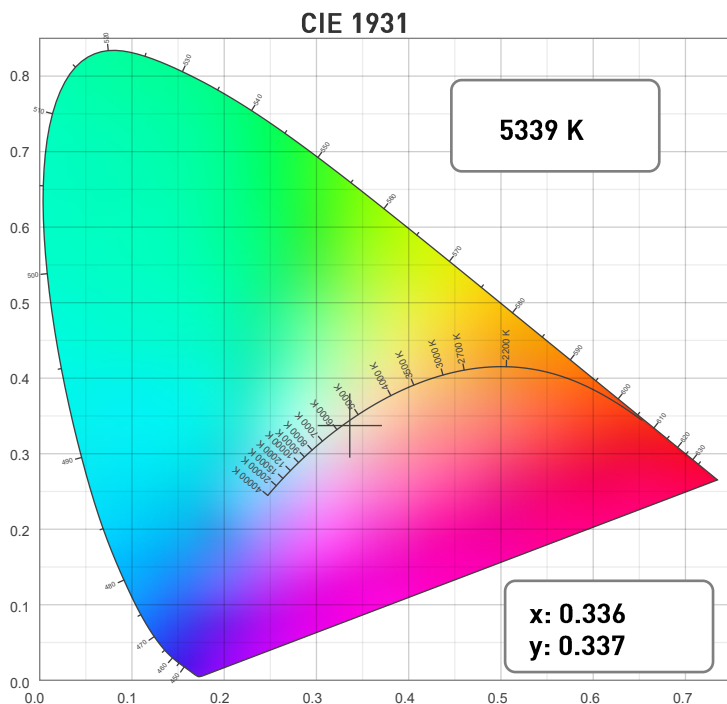
SPECTRAL DISTRIBUTION



# Photometric Report

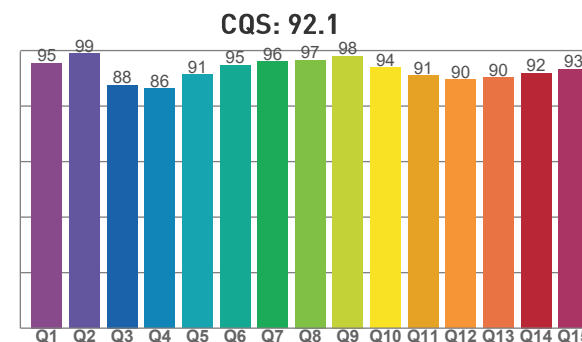
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5339 K	95.5	80.7	92.8	100.3



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	92.1	0.336	0.337	0.211	0.317	-0.0069

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TM30

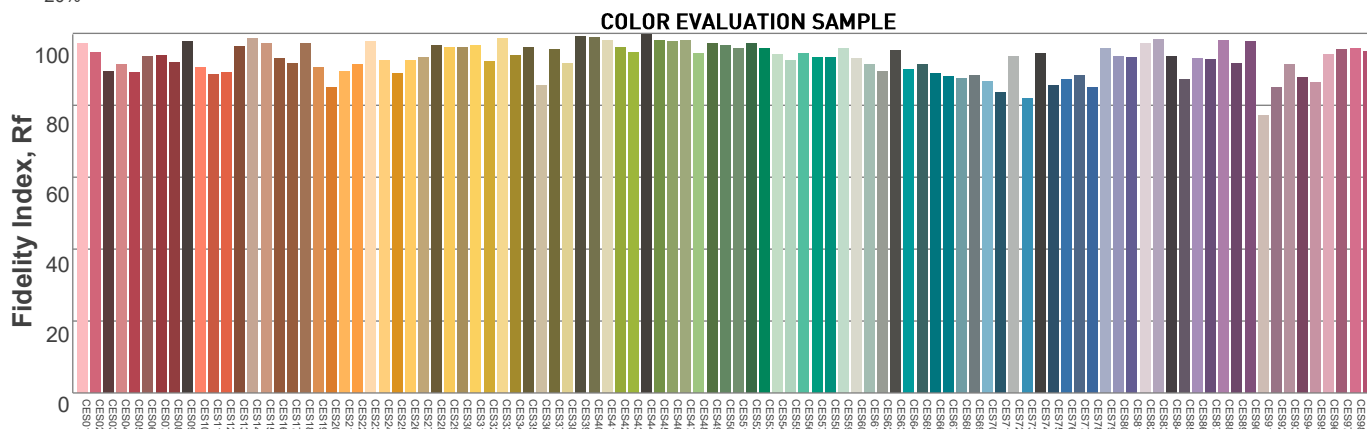
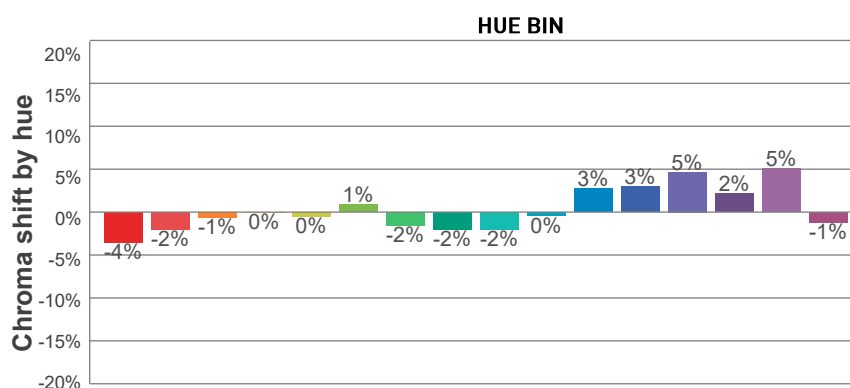
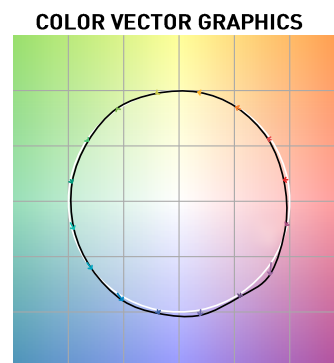
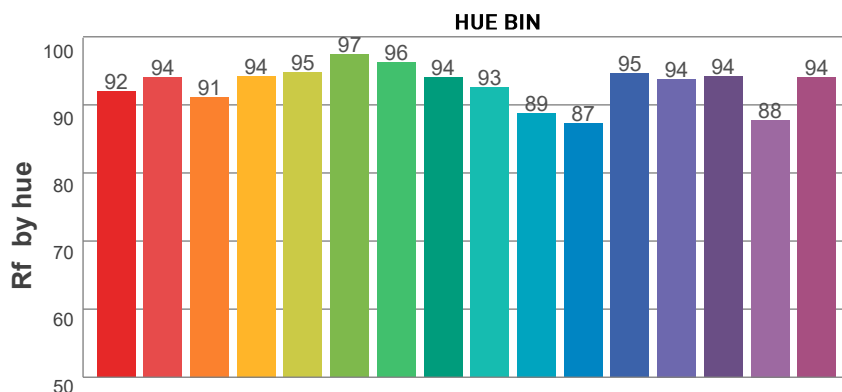
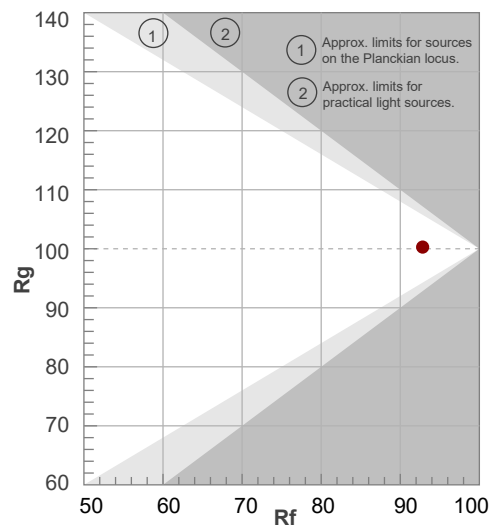
Rf 92.8

Fidelity index Rf

Rg 100.3

Gamut index Rg

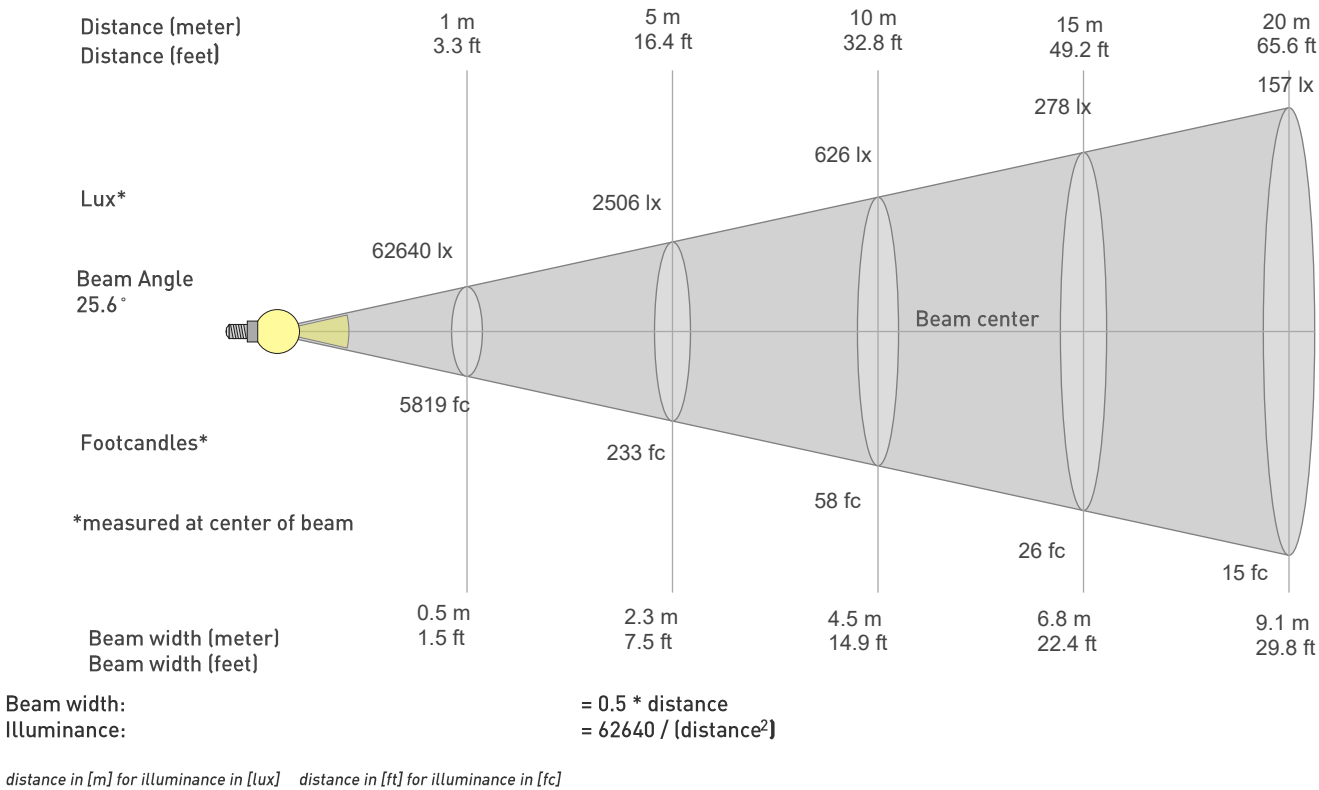
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	94	-2%	3%
3	91	-1%	5%
4	94	0%	2%
5	95	0%	1%
6	97	1%	0%
7	96	-2%	0%
8	94	-2%	2%
9	93	-2%	6%
10	89	0%	7%
11	87	3%	7%
12	95	3%	2%
13	94	5%	-2%
14	94	2%	-3%
15	88	5%	-9%
16	94	-1%	-3%



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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
62640lx	15660lx	6960lx	3915lx	2506lx	1740lx	1278lx	979lx	773lx	626lx	518lx	435lx	371lx	320lx	278lx	245lx	217lx	193lx	174lx	157lx
5819.5fc	1454.9fc	646.6fc	363.7fc	232.8fc	161.7fc	118.8fc	90.9fc	71.8fc	58.2fc	48.1fc	40.4fc	34.4fc	29.7fc	25.9fc	22.7fc	20.1fc	18fc	16.1fc	14.5fc

