

# Photometric Report

MAC Encore Two – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

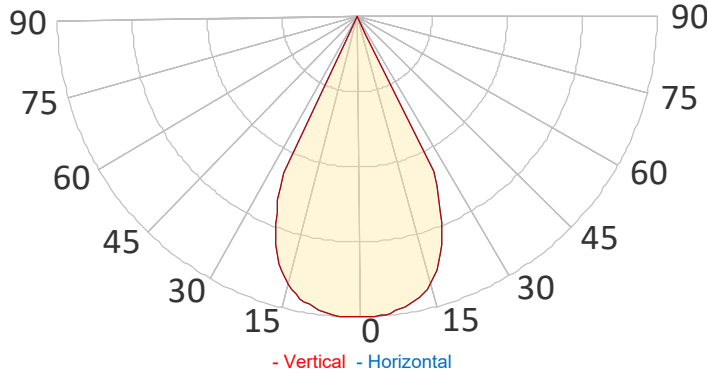
## GENERAL SPECIFICATIONS

Total Fixture Output:	21000 lm
Light Engine Output:	57000 lm
Efficacy:	24.4 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:	90 (+/-3)
TM-30 Rf:	90 (+/-3)
TM-30 Rg:	100 (+/-3)
TLCI:	90 (+/-3)
Color Temperature:	5600K (+/-300K)



## SAMPLE MEASUREMENT

POLAR PLOT

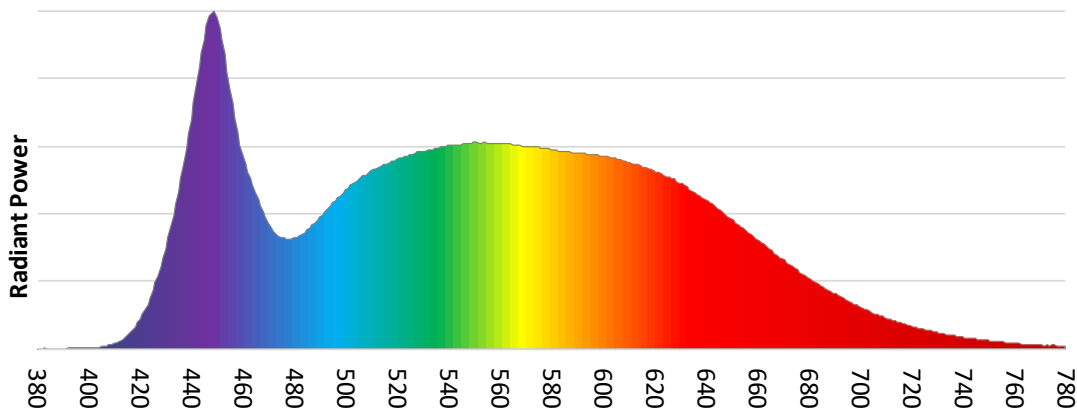


Catalog Number:	MAR-90250600HU
Measured Output:	18932 lm
Measured Peak:	38189 cd
Consumed Power:	737 W
Efficacy:	25.7 lm/W

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 Medium
Fixture Warm-up Time:	30 minutes

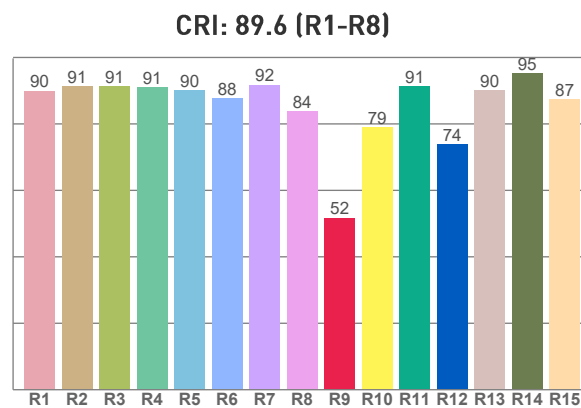
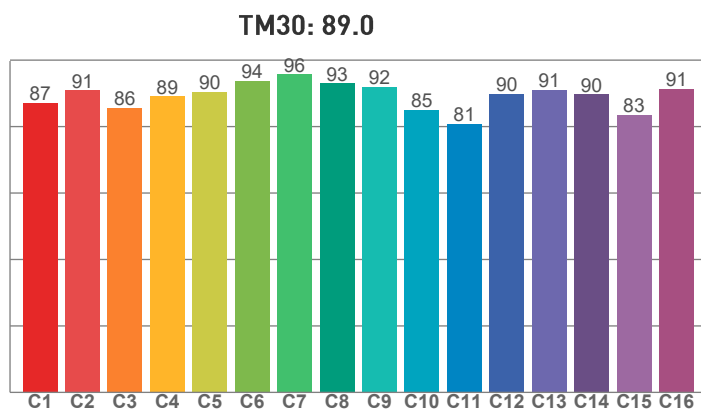
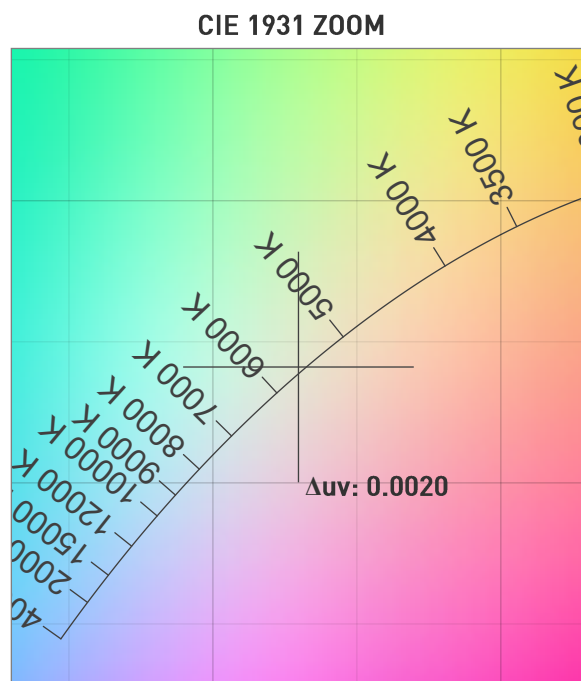
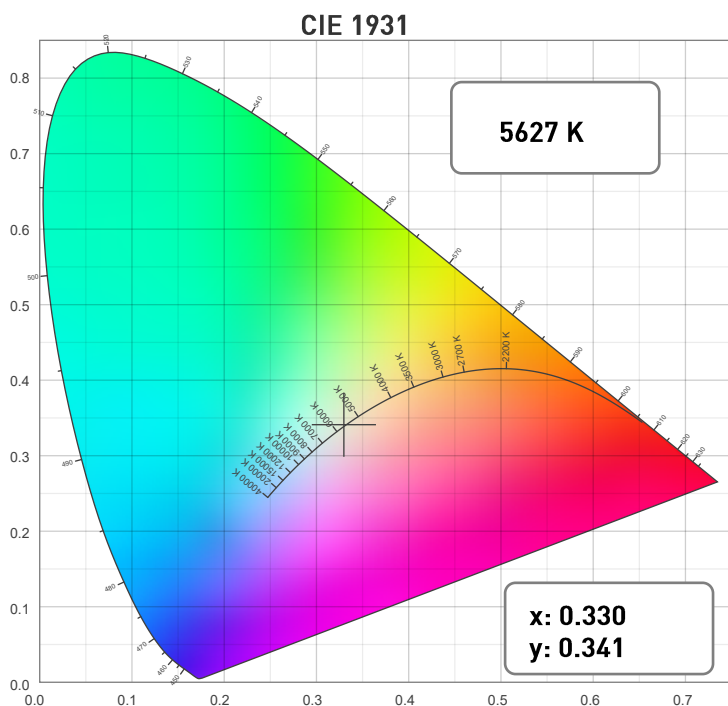
SPECTRAL DISTRIBUTION



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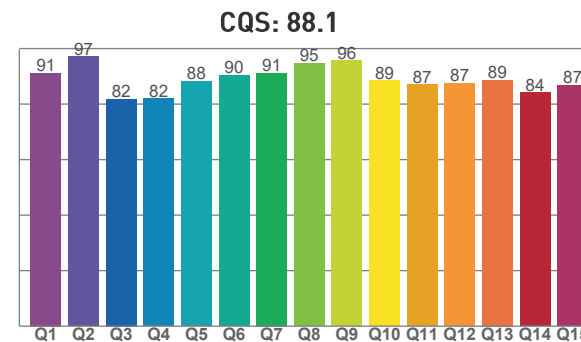
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5627 K	89.6	51.8	89.0	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
91	88.1	0.330	0.341	0.205	0.318	0.0020

## MAC Encore Two – Wide

# TM30

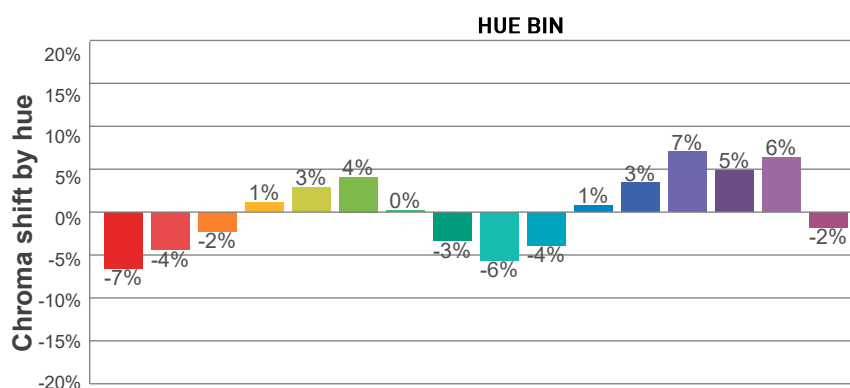
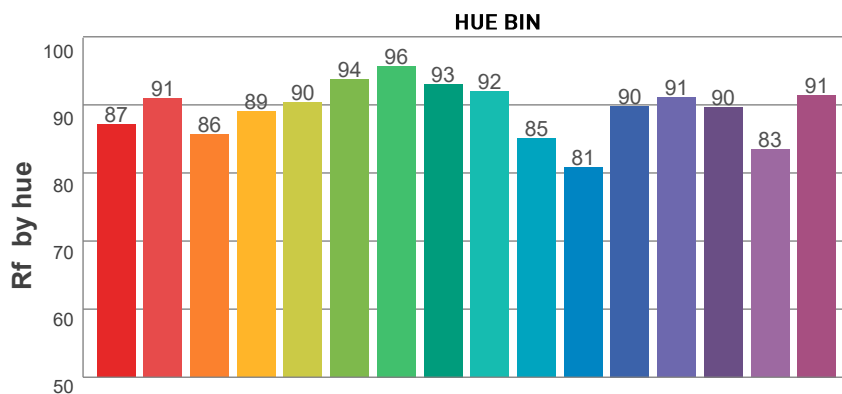
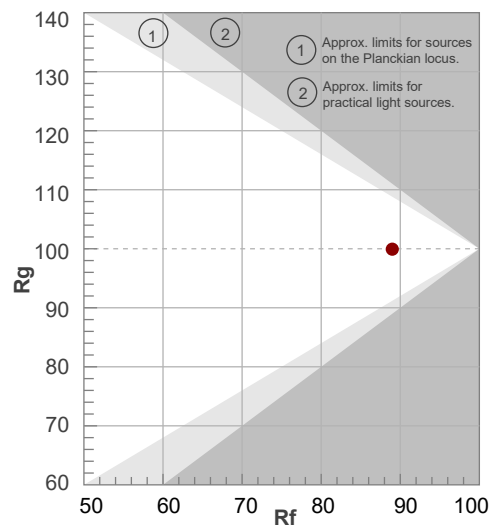
**Rf 89.0**

### Fidelity index Rf

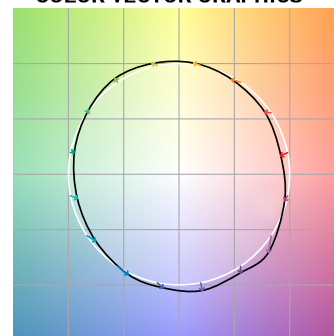
**Rg 99.9**

## Gamut index Rg

		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	87	-7%	-2%
2	91	-4%	4%
3	86	-2%	8%
4	89	1%	7%
5	90	3%	4%
6	94	4%	0%
7	96	0%	-3%
8	93	-3%	-2%
9	92	-6%	3%
10	85	-4%	8%
11	81	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	83	6%	-14%
16	91	-2%	-5%



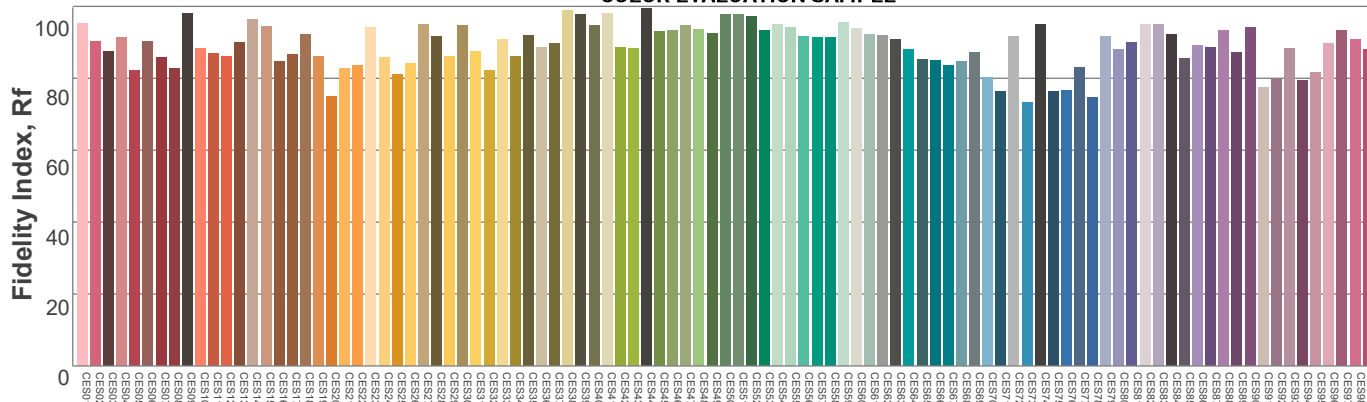
## COLOR VECTOR GRAPHICS



## COLOR DISTORTION GRAPHICS



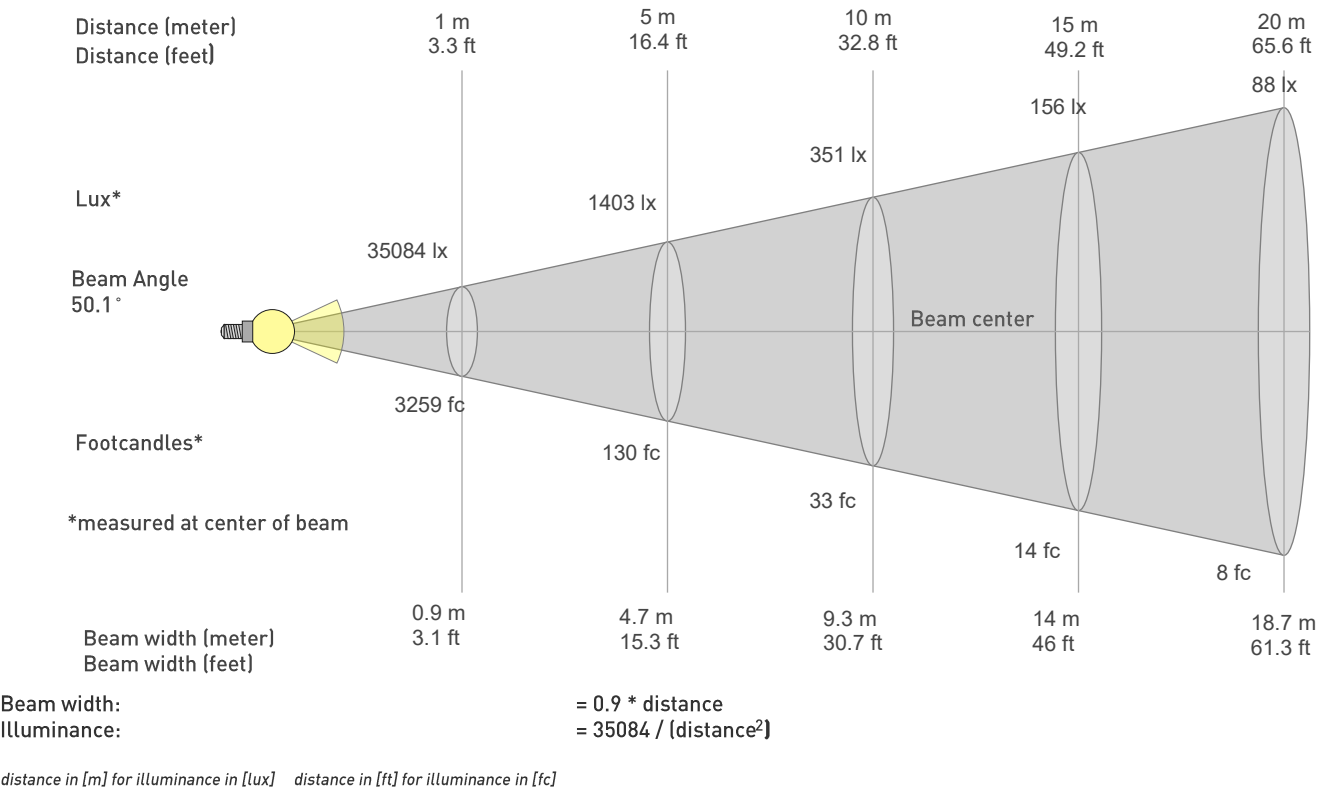
### COLOR EVALUATION SAMPLE



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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
35084lx	8771lx	3898lx	2193lx	1403lx	975lx	716lx	548lx	433lx	351lx	290lx	244lx	208lx	179lx	156lx	137lx	121lx	108lx	97lx	88lx
3259.4fc	814.9fc	362.2fc	203.7fc	130.4fc	90.5fc	66.5fc	50.9fc	40.2fc	32.6fc	26.9fc	22.6fc	19.3fc	16.6fc	14.5fc	12.7fc	11.3fc	10.1fc	9fc	8.1fc

