

Photometric Report

MAC Encore Two – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

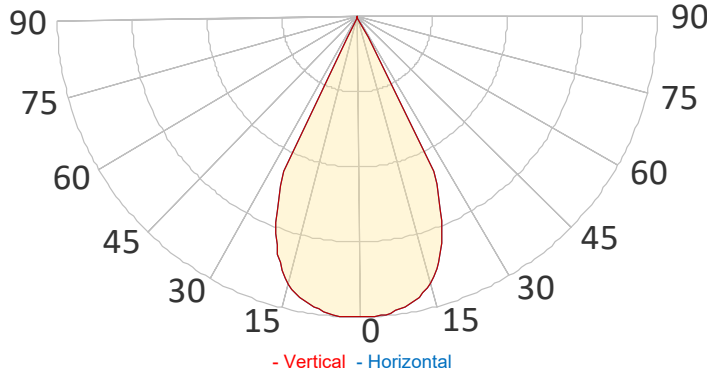
GENERAL SPECIFICATIONS

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

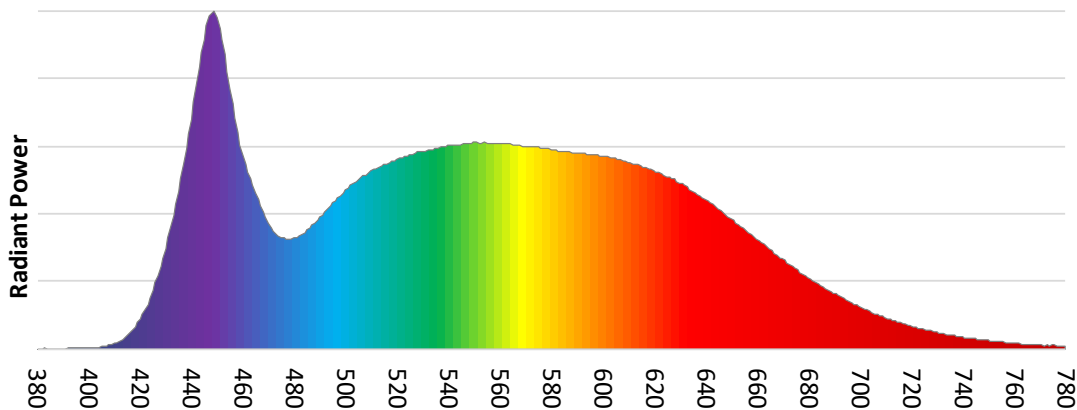
POLAR PLOT



Catalog Number:	MAR-90250600HU
Measured Output:	14645 lm
Measured Peak:	29619 cd
Consumed Power:	505 W
Efficacy:	29 lm/W
Beam Angle (50%):	50.1°
Field Angle (10%):	53.6°
Cut-off Angle (3%):	53.9°

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

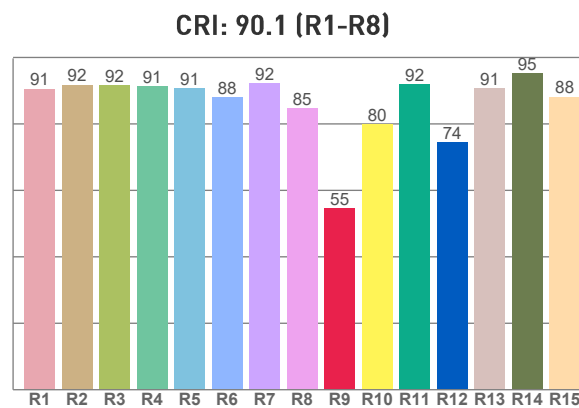
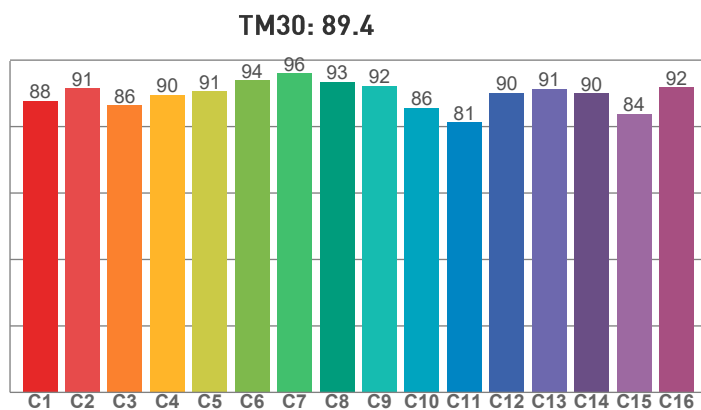
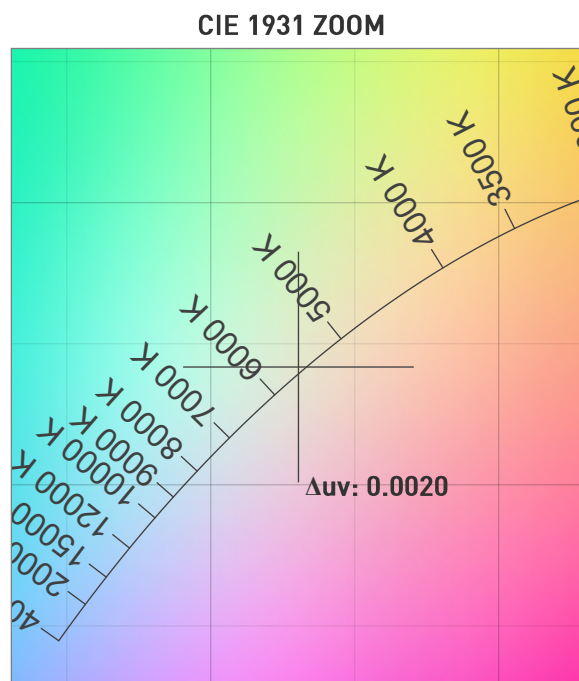
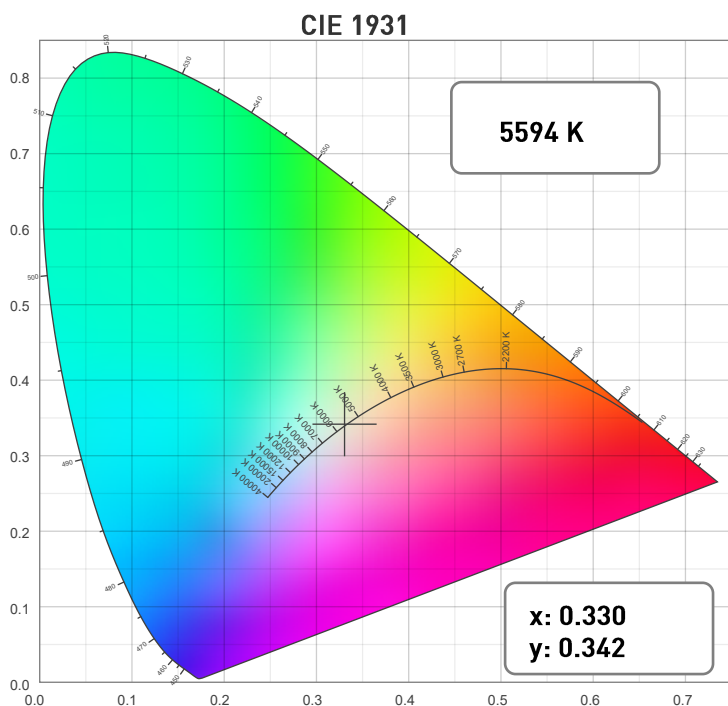
SPECTRAL DISTRIBUTION



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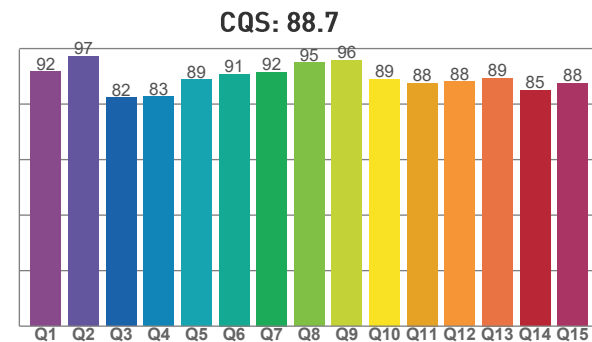
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5594 K	90.1	54.5	89.4	100.1



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
92	88.7	0.330	0.342	0.205	0.318	0.0020

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TM30

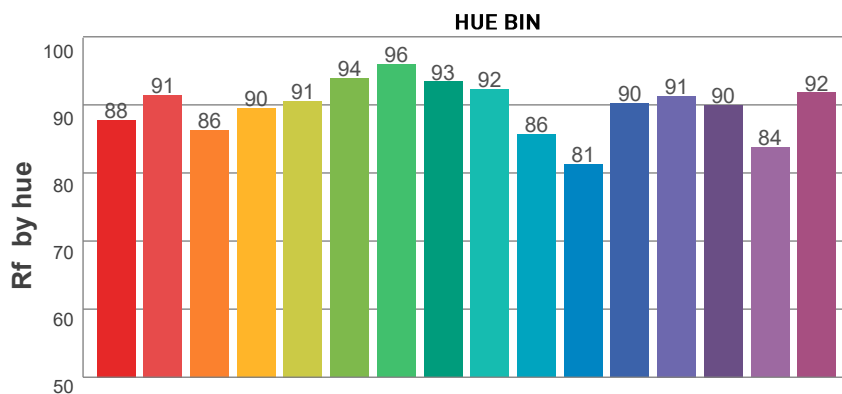
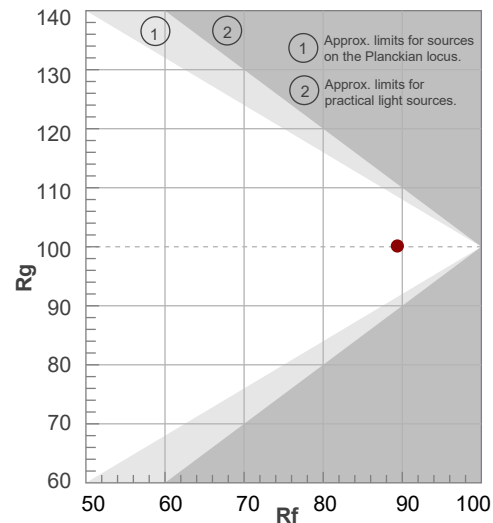
Rf 89.4

Fidelity index Rf

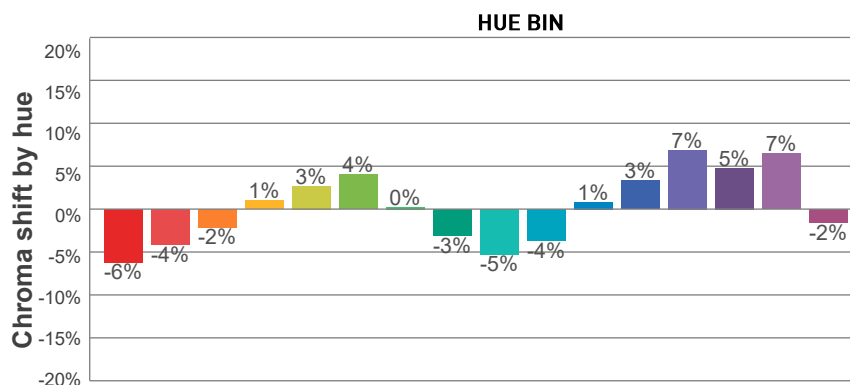
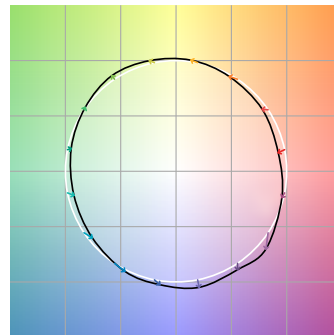
Rg 100.1

Gamut index Rg

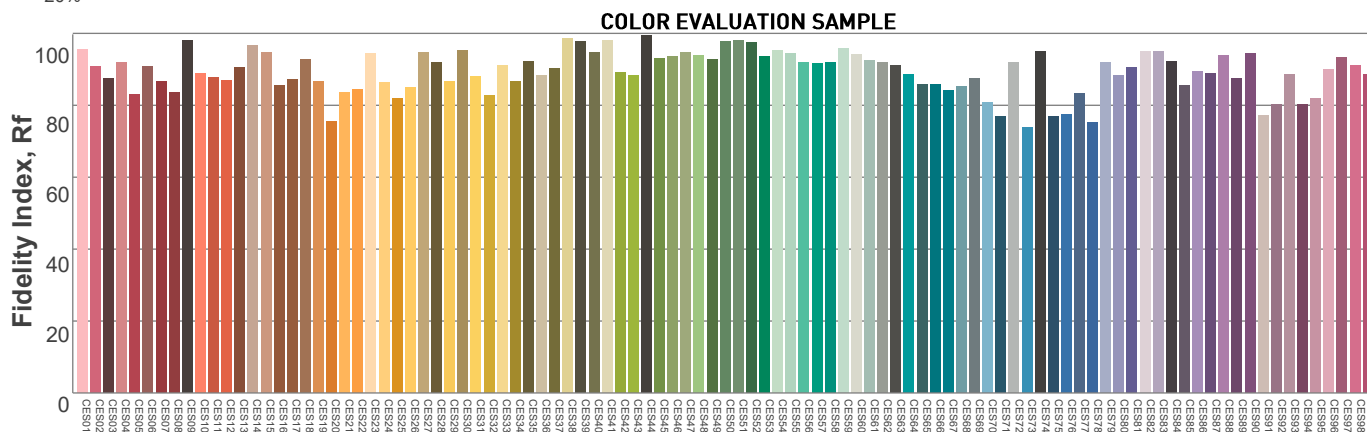
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-6%	-1%
2	91	-4%	3%
3	86	-2%	8%
4	90	1%	6%
5	91	3%	4%
6	94	4%	0%
7	96	0%	-2%
8	93	-3%	-2%
9	92	-5%	3%
10	86	-4%	8%
11	81	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	84	7%	-13%
16	92	-2%	-5%



COLOR VECTOR GRAPHICS



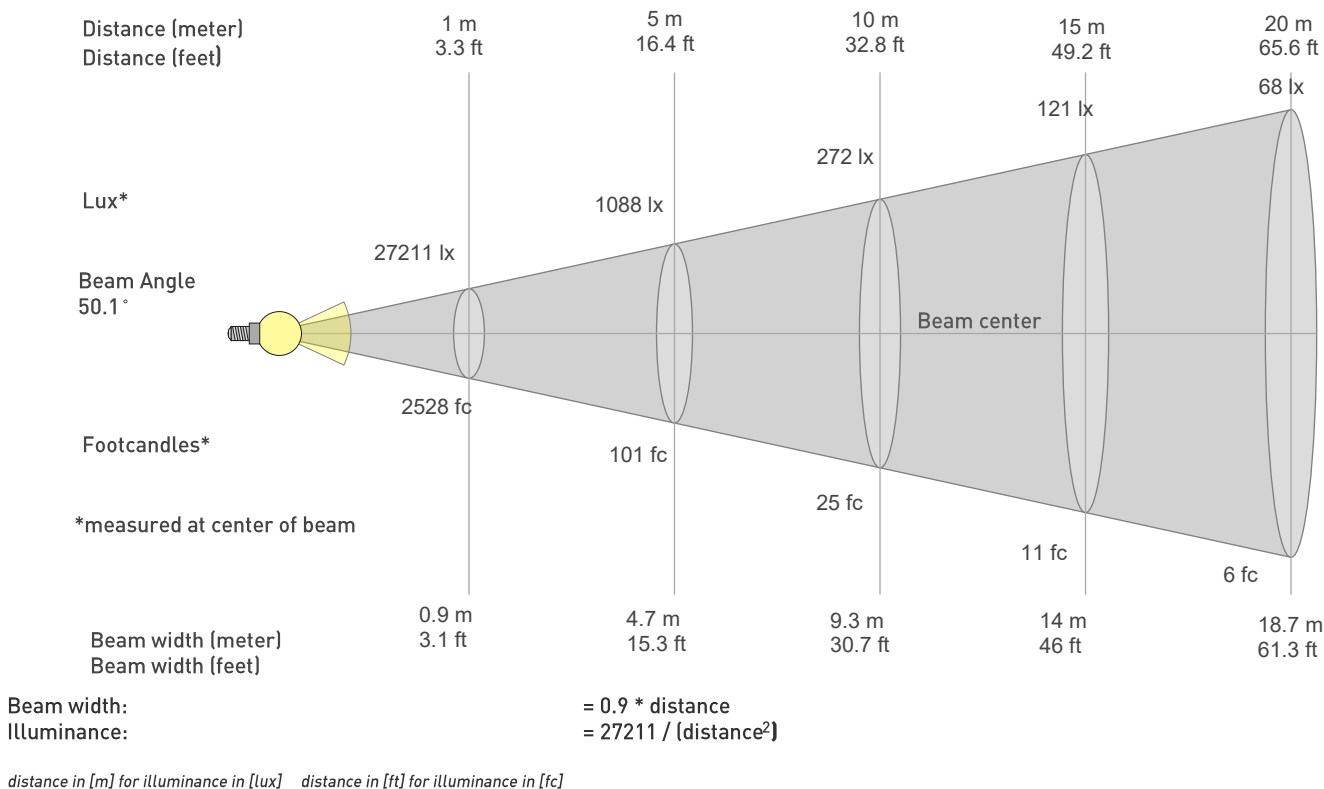
COLOR DISTORTION GRAPHICS



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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
27211lx	6803lx	3023lx	1701lx	1088lx	756lx	555lx	425lx	336lx	272lx	225lx	189lx	161lx	139lx	121lx	106lx	94lx	84lx	75lx	68lx
2528fc	632fc	280.9fc	158fc	101.1fc	70.2fc	51.6fc	39.5fc	31.2fc	25.3fc	20.9fc	17.6fc	15fc	12.9fc	11.2fc	9.9fc	8.7fc	7.8fc	7fc	6.3fc

