

Photometric Report

MAC Encore Two – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

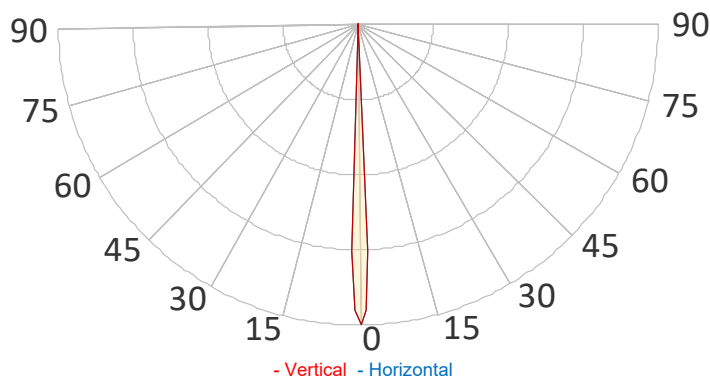
GENERAL SPECIFICATIONS

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

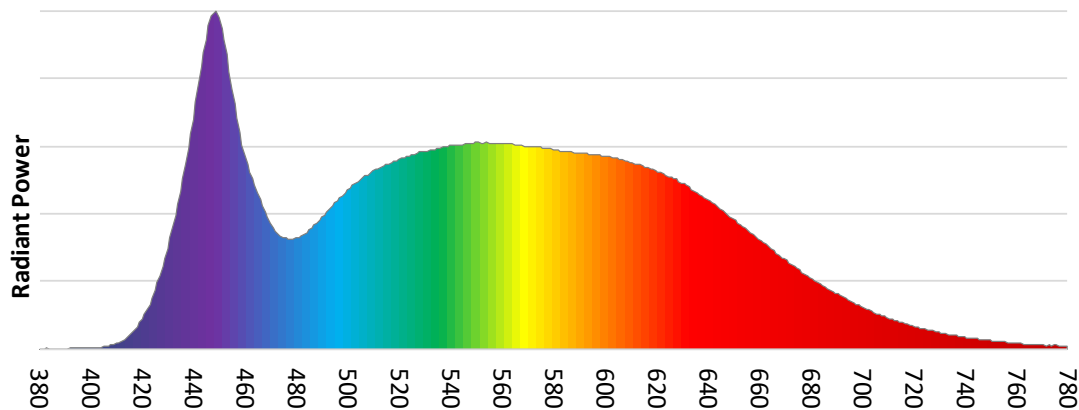


Catalog Number:	MAR-90250600HU
Measured Output:	8642 lm
Measured Peak:	1416165 cd
Consumed Power:	505 W
Efficacy:	17.1 lm/W

Beam Angle (50%):	5.1°
Field Angle (10%):	5.7°
Cut-off Angle (3%):	5.9°

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

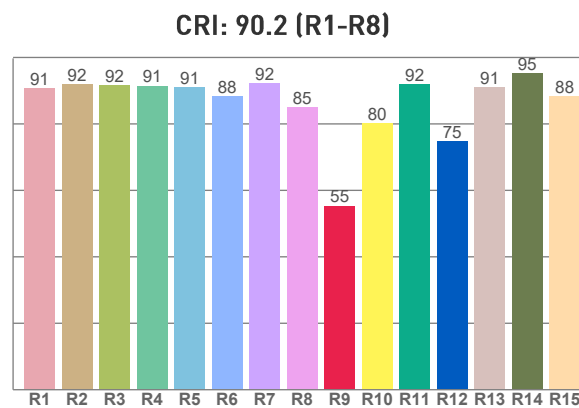
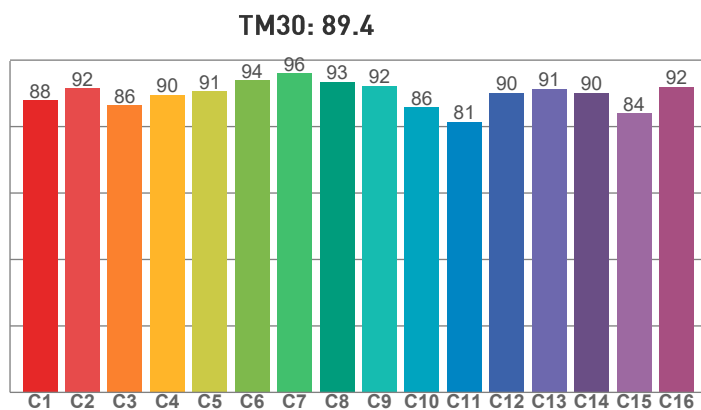
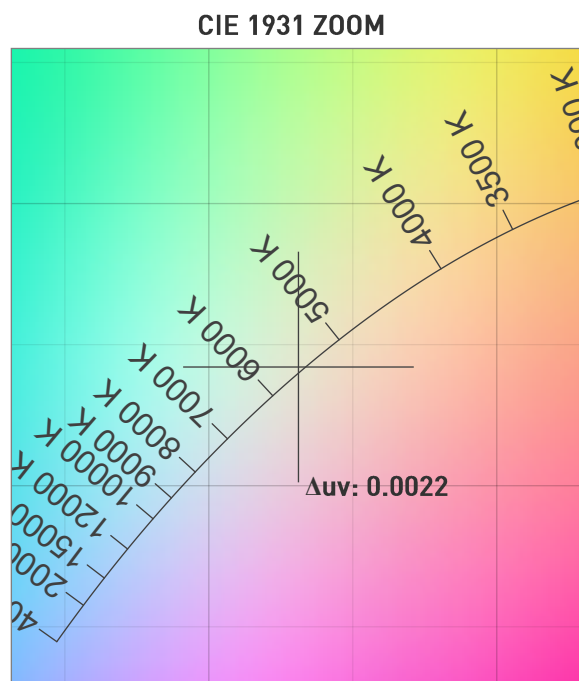
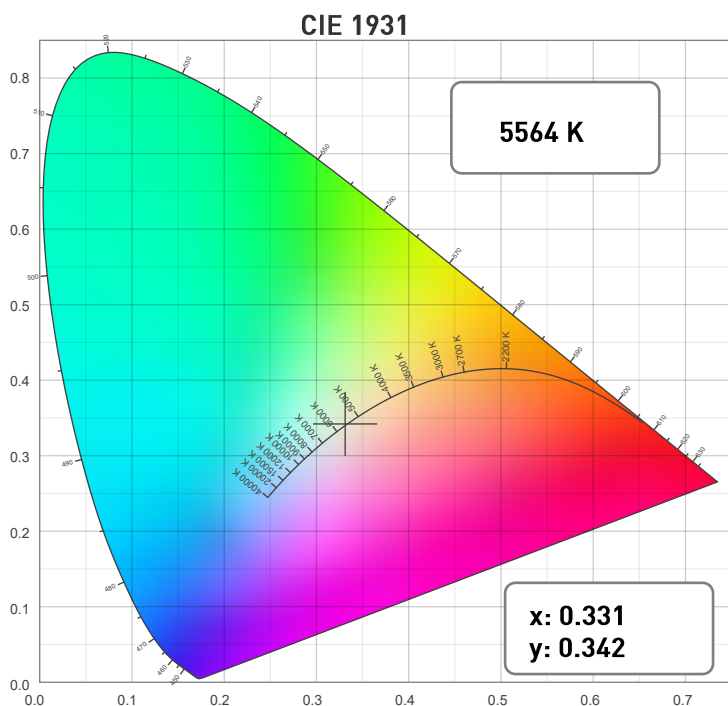
SPECTRAL DISTRIBUTION



Photometric Report

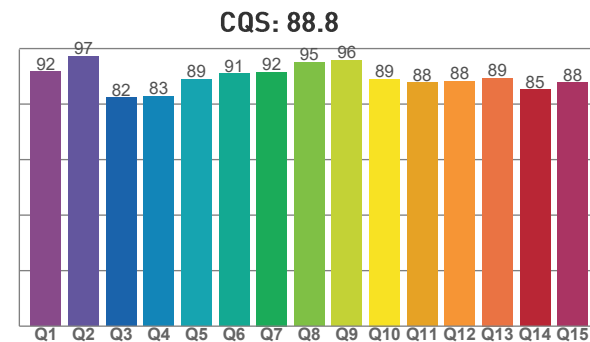
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5564 K	90.2	55.4	89.4	100.2



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	88.8	0.331	0.342	0.206	0.319	0.0022

Photometric Report

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TM30

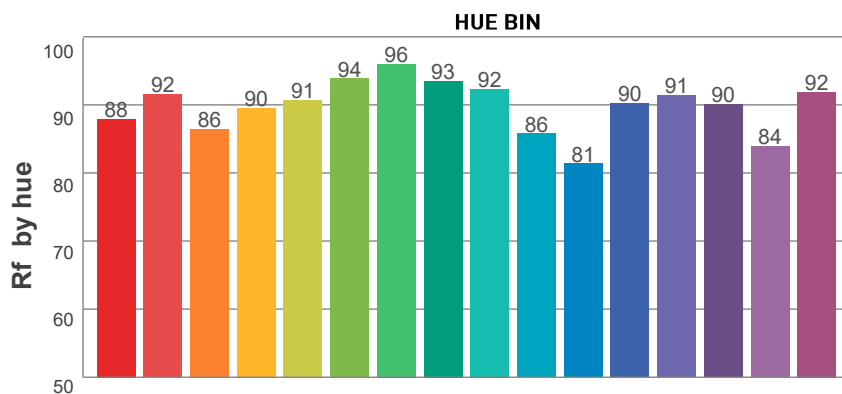
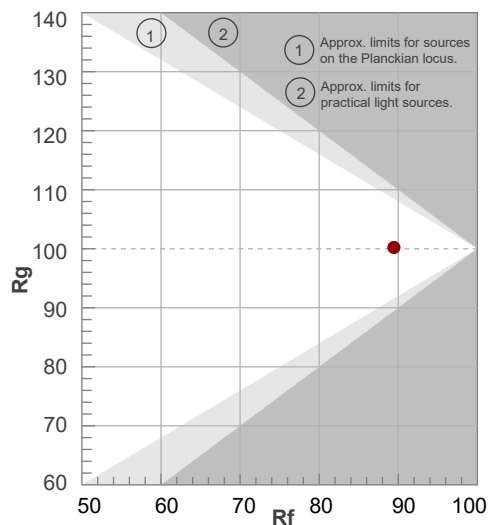
Rf 89.4

Fidelity index Rf

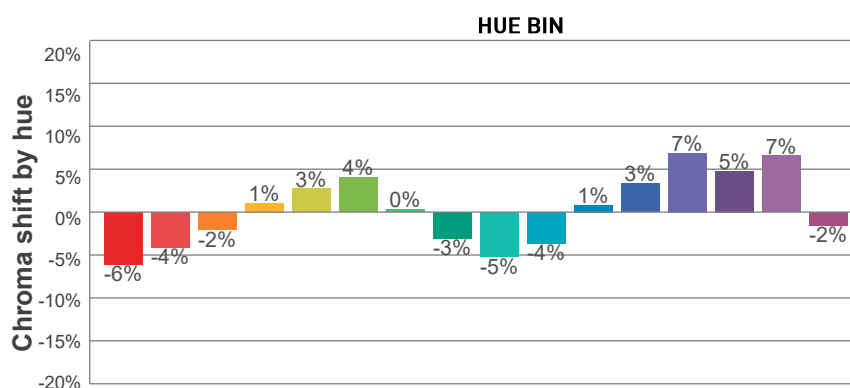
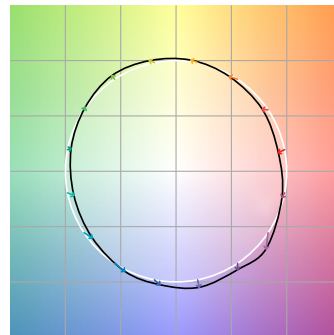
Rg 100.2

Gamut index Rg

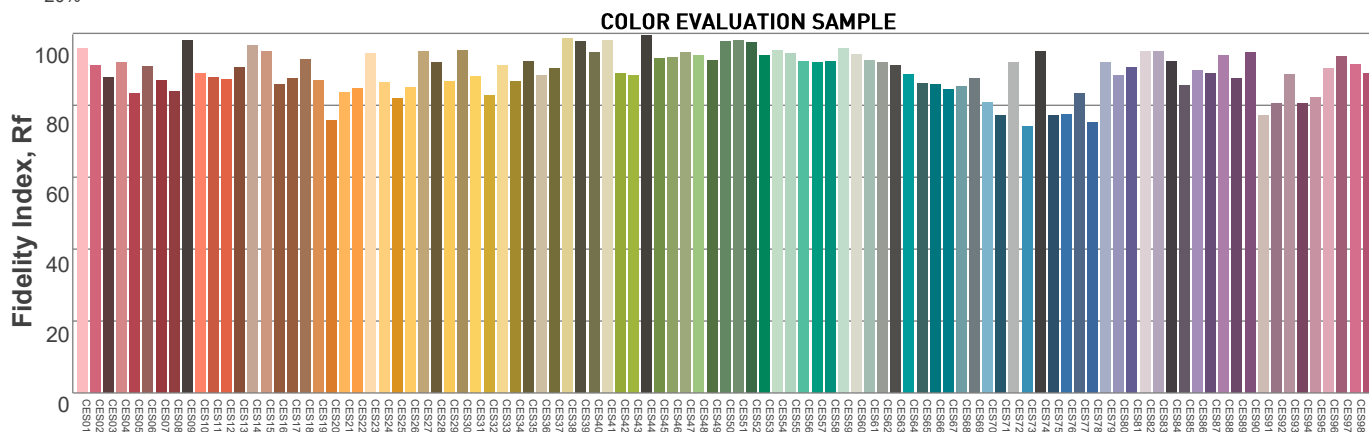
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-6%	-1%
2	92	-4%	3%
3	86	-2%	7%
4	90	1%	6%
5	91	3%	4%
6	94	4%	0%
7	96	0%	-2%
8	93	-3%	-2%
9	92	-5%	3%
10	86	-4%	8%
11	81	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	84	7%	-13%
16	92	-2%	-5%



COLOR VECTOR GRAPHICS



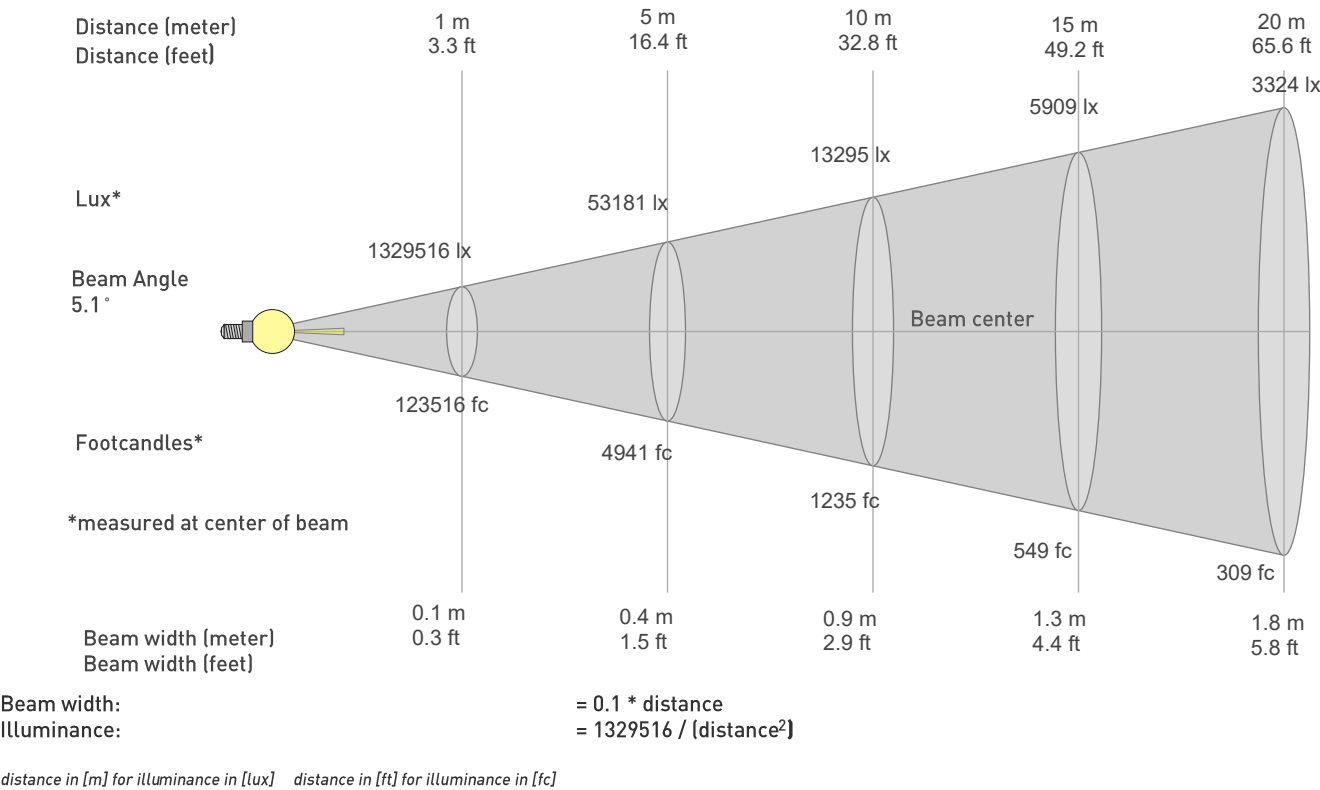
COLOR DISTORTION GRAPHICS



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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
1329516lx	332379lx	147724lx	83095lx	53181lx	36931lx	27133lx	20774lx	16414lx	13295lx	10988lx	9233lx	7867lx	6783lx	5909lx	5193lx	4600lx	4103lx	3683lx	3324lx
123516.1fc	30879fc	13724fc	7719.8fc	4940.6fc	3431fc	2520.7fc	1929.9fc	1524.9fc	1235.2fc	1020.8fc	857.8fc	730.9fc	630.2fc	549fc	482.5fc	427.4fc	381.2fc	342.1fc	308.8fc

