

Photometric Report

MAC Encore Two – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

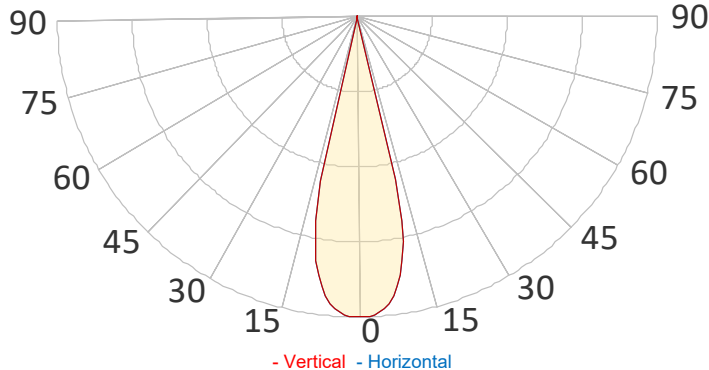
GENERAL SPECIFICATIONS

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

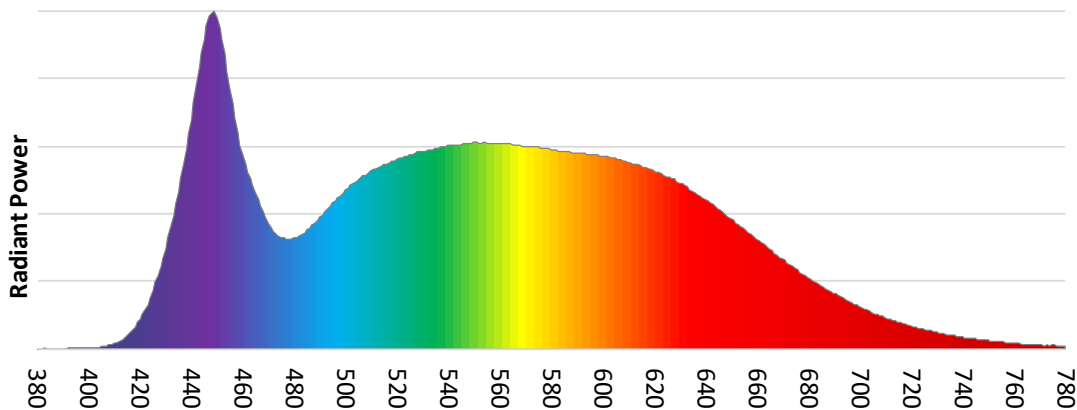


Catalog Number:	MAR-90250600HU
Measured Output:	10310 lm
Measured Peak:	75608 cd
Consumed Power:	340 W
Efficacy:	30.3 lm/W

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 Ultra Low
Fixture Warm-up Time:	30 minutes

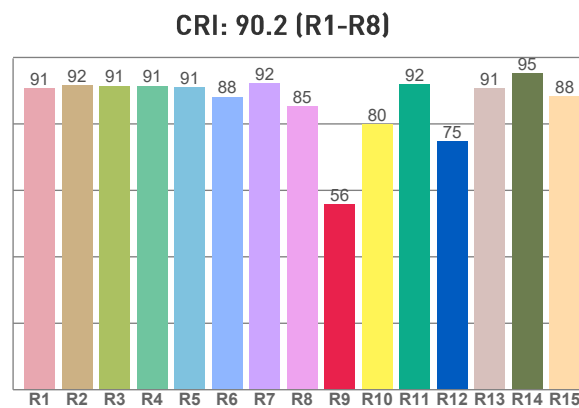
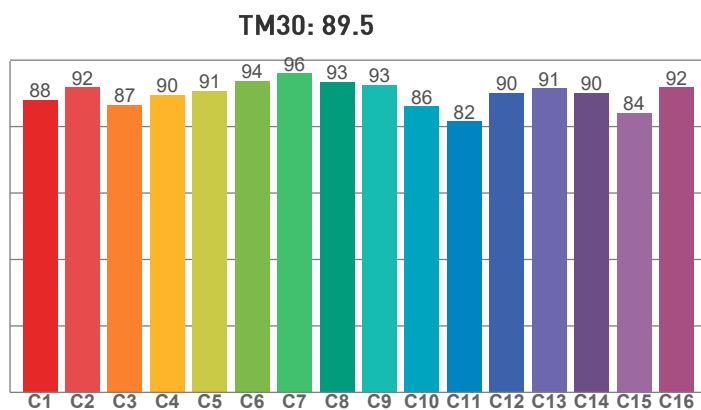
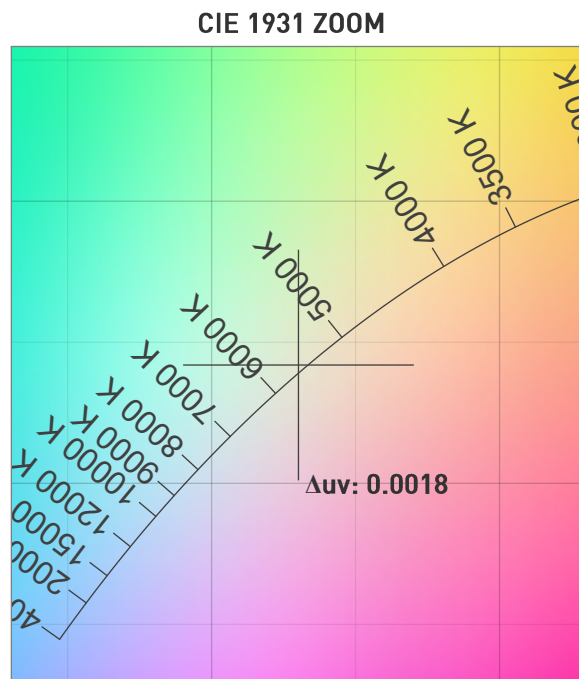
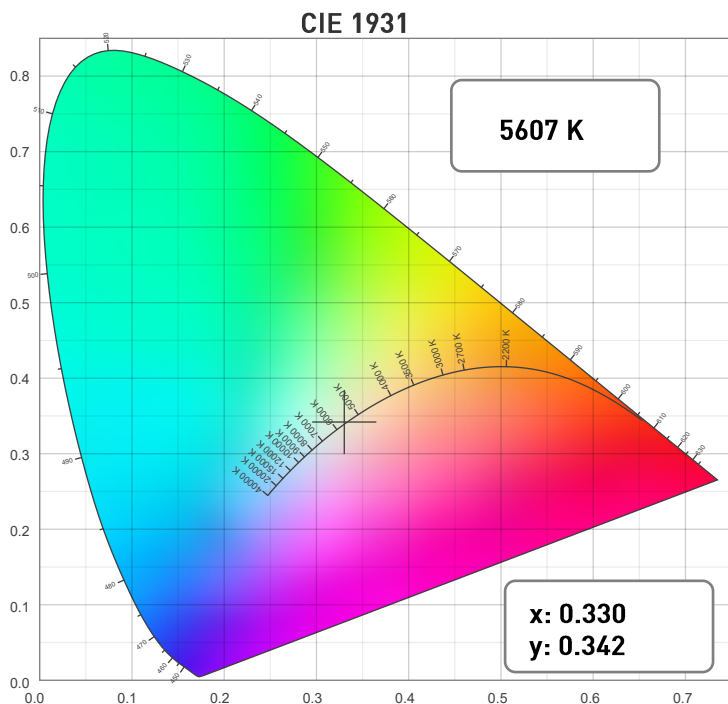
SPECTRAL DISTRIBUTION



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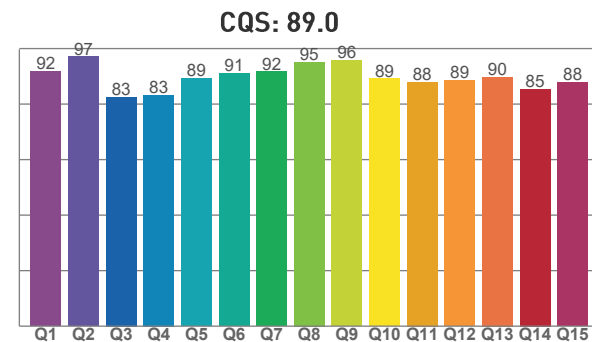
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5607 K	90.2	55.8	89.5	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
93	89.0	0.330	0.342	0.205	0.318	0.0018

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TM30

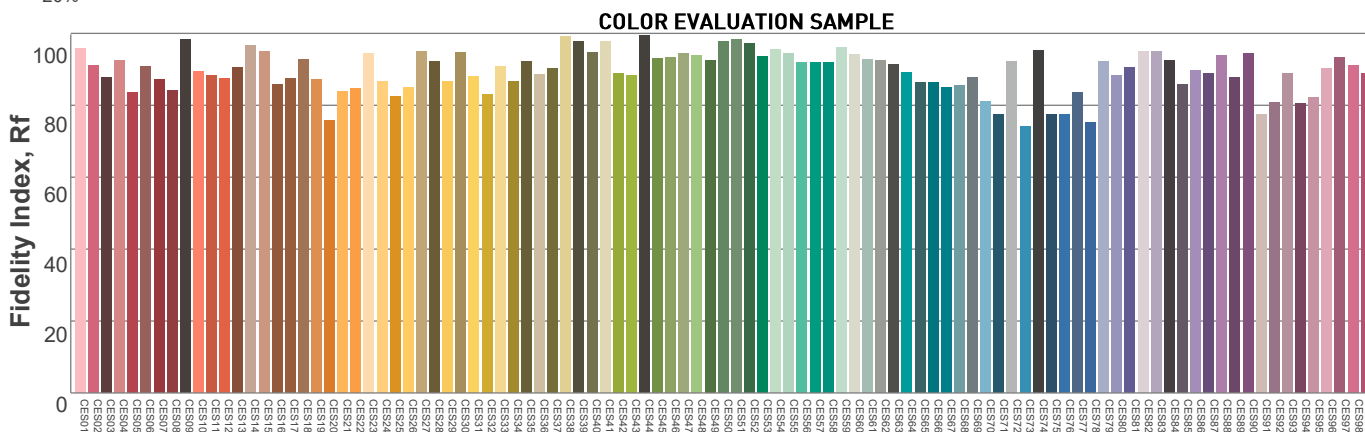
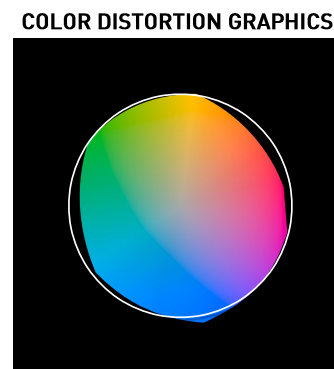
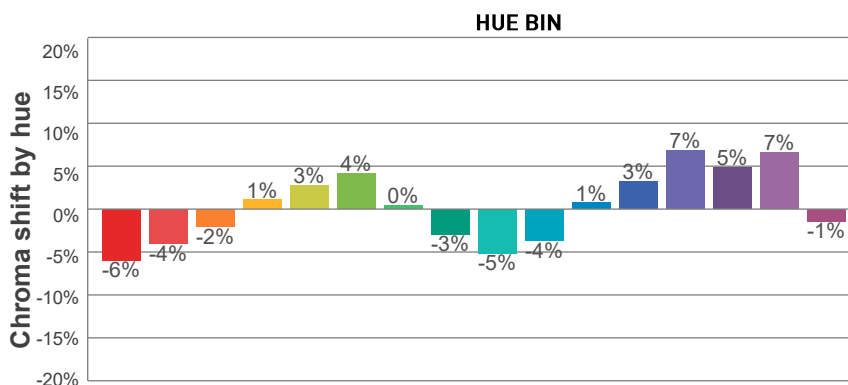
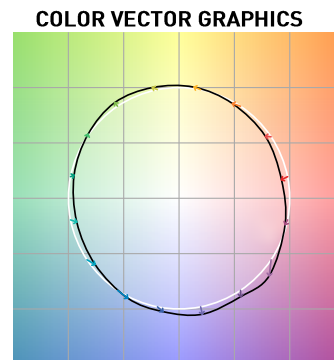
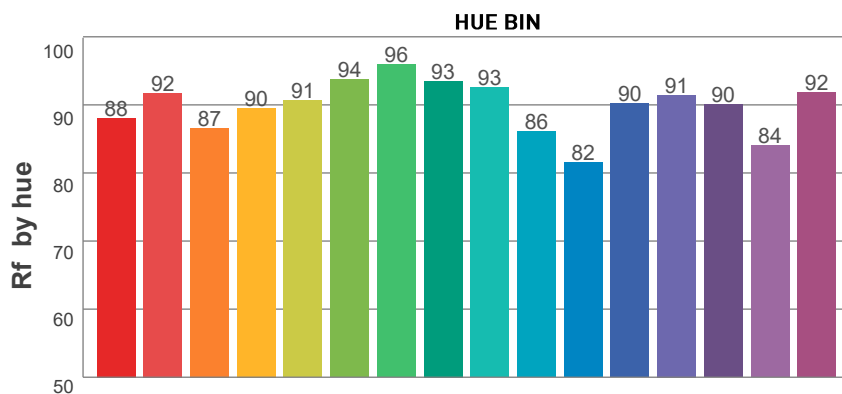
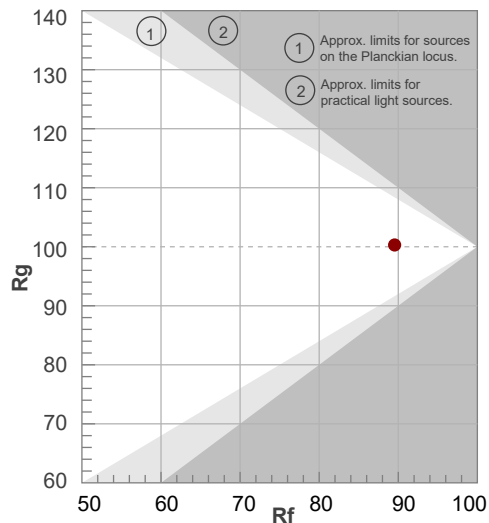
Rf 89.5

Fidelity index Rf

Rg 100.3

Gamut index Rg

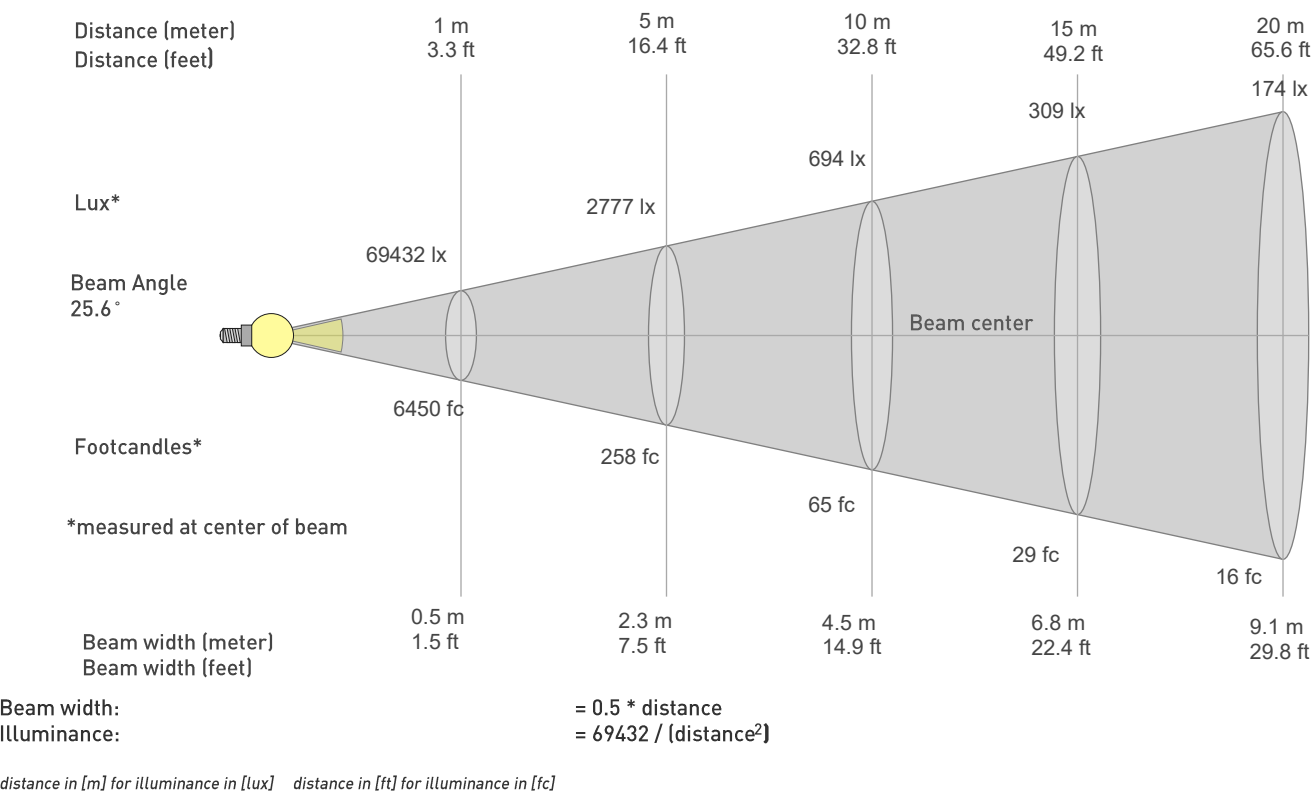
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	88	-6%	-2%
2	92	-4%	3%
3	87	-2%	7%
4	90	1%	6%
5	91	3%	4%
6	94	4%	0%
7	96	0%	-2%
8	93	-3%	-2%
9	93	-5%	3%
10	86	-4%	8%
11	82	1%	11%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	84	7%	-13%
16	92	-1%	-5%



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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
69432lx	17358lx	7715lx	4339lx	2777lx	1929lx	1417lx	1085lx	857lx	694lx	574lx	482lx	411lx	354lx	309lx	271lx	240lx	214lx	192lx	174lx
6450.4fc	1612.6fc	716.7fc	403.2fc	258fc	179.2fc	131.6fc	100.8fc	79.6fc	64.5fc	53.3fc	44.8fc	38.2fc	32.9fc	28.7fc	25.2fc	22.3fc	19.9fc	17.9fc	16.1fc

