

Photometric Report

MAC Encore Two – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

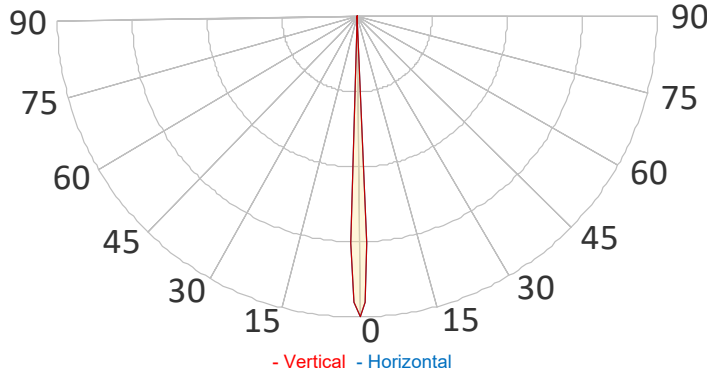
GENERAL SPECIFICATIONS

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

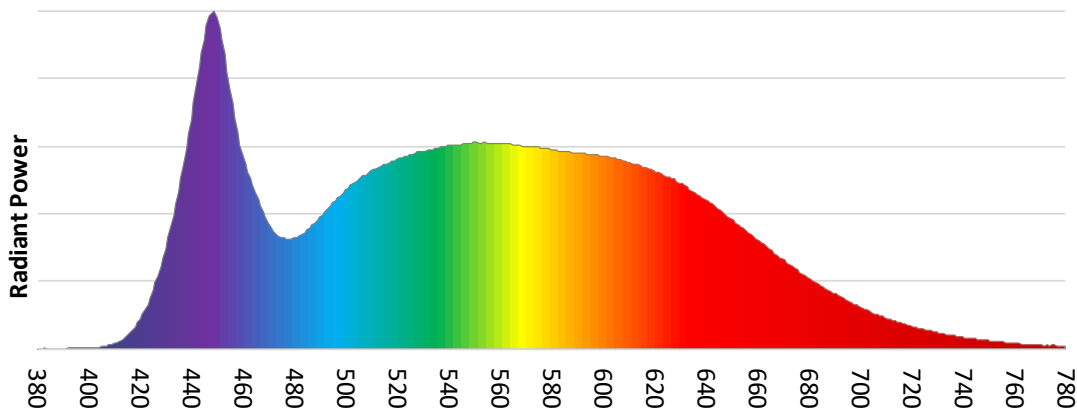


Catalog Number:	MAR-90250600HU
Measured Output:	6185 lm
Measured Peak:	1015410 cd
Consumed Power:	340 W
Efficacy:	18.2 lm/W

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 Ultra Low
Fixture Warm-up Time:	30 minutes

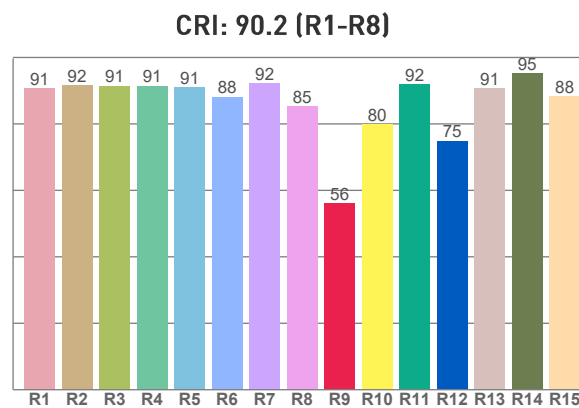
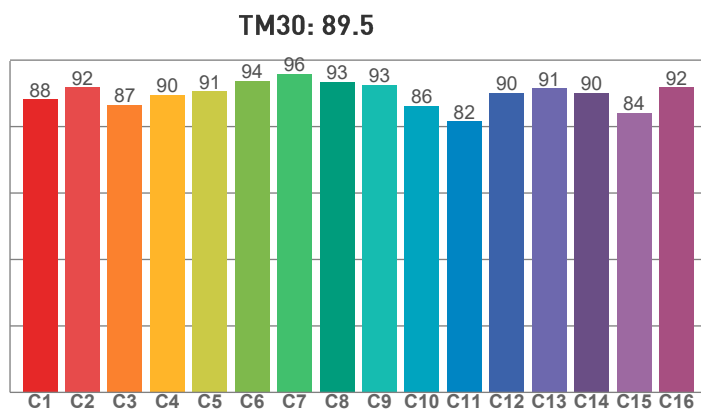
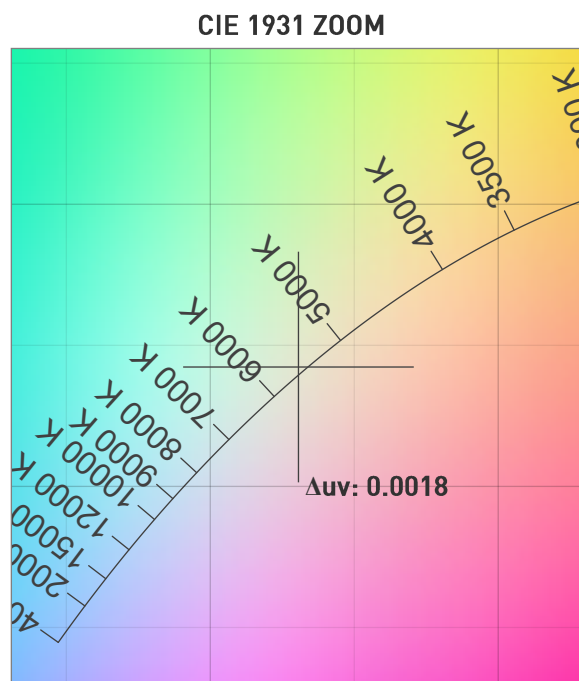
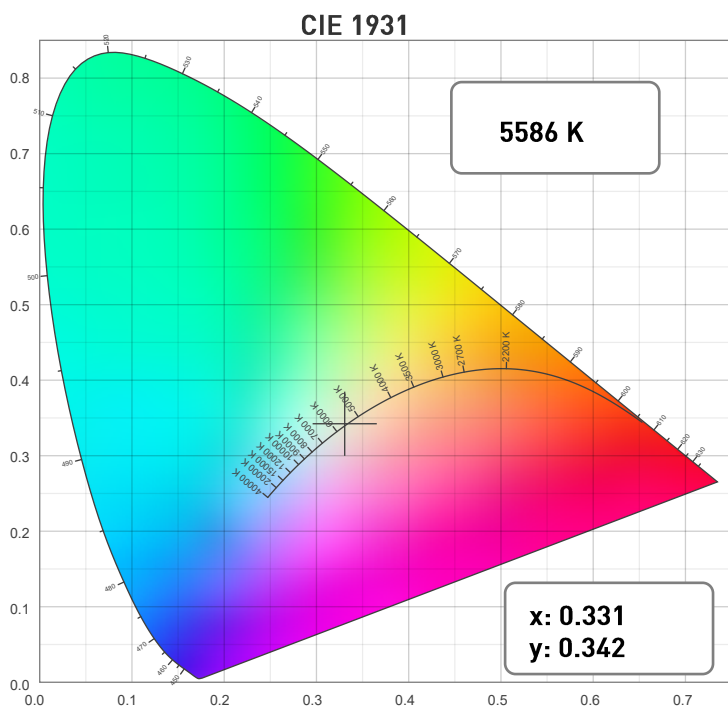
SPECTRAL DISTRIBUTION



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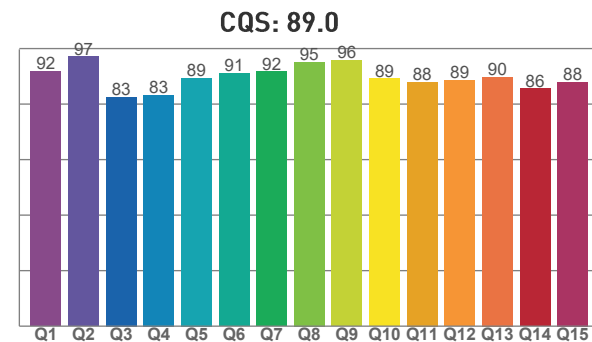
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5586 K	90.2	56.0	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	0.331	0.342	0.205	0.319	0.0018

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TM30

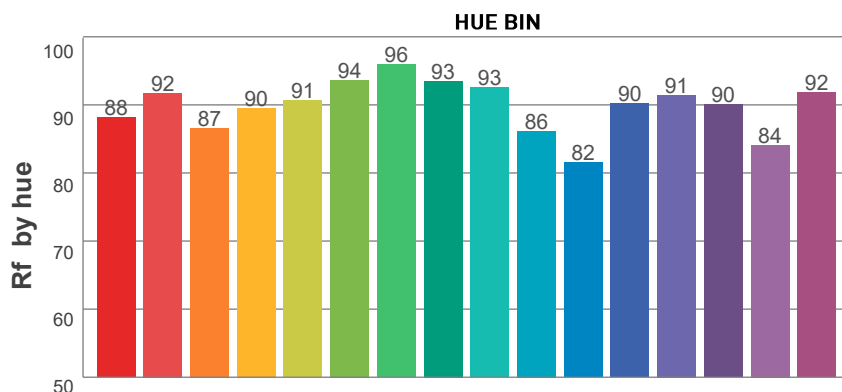
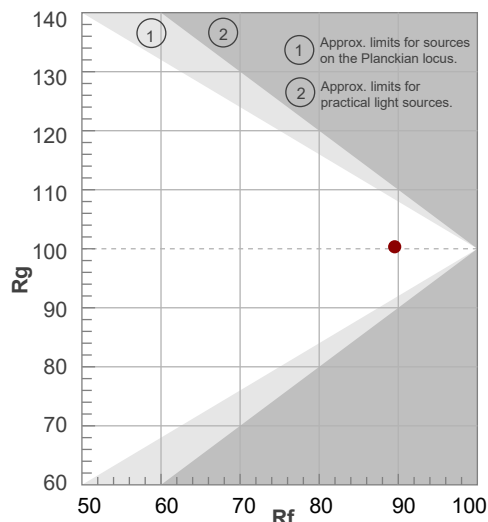
Rf 89.5

Fidelity index Rf

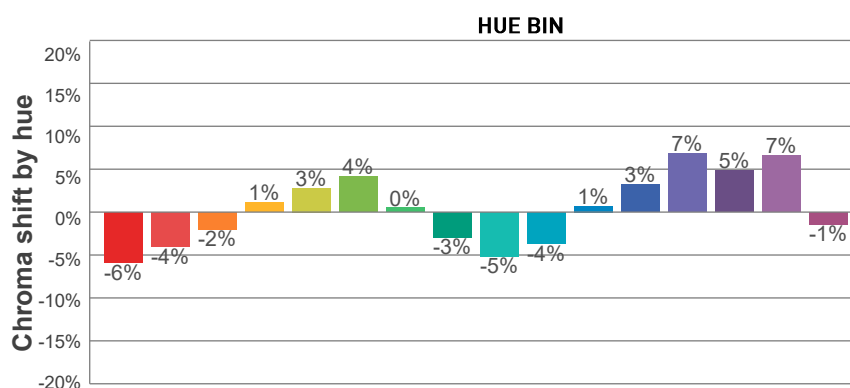
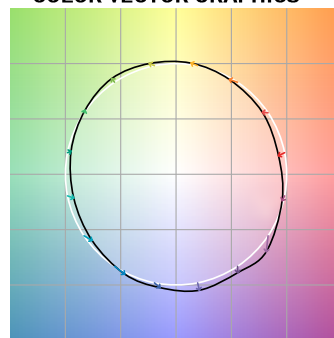
Rg 100.3

Gamut index Rg

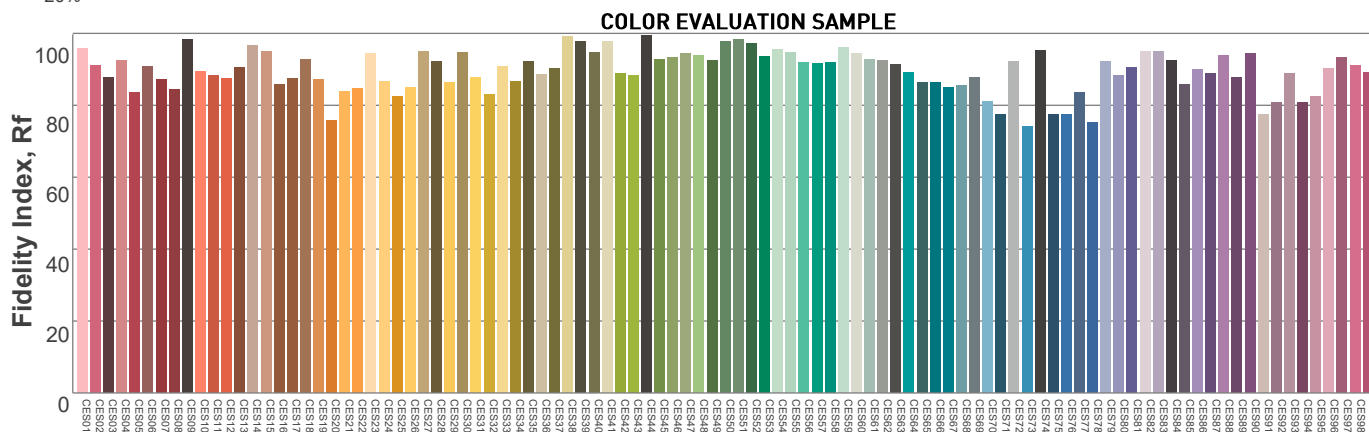
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	88	-6%	-2%
2	92	-4%	3%
3	87	-2%	7%
4	90	1%	6%
5	91	3%	4%
6	94	4%	0%
7	96	0%	-2%
8	93	-3%	-2%
9	93	-5%	3%
10	86	-4%	7%
11	82	1%	11%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	84	7%	-13%
16	92	-1%	-5%



COLOR VECTOR GRAPHICS



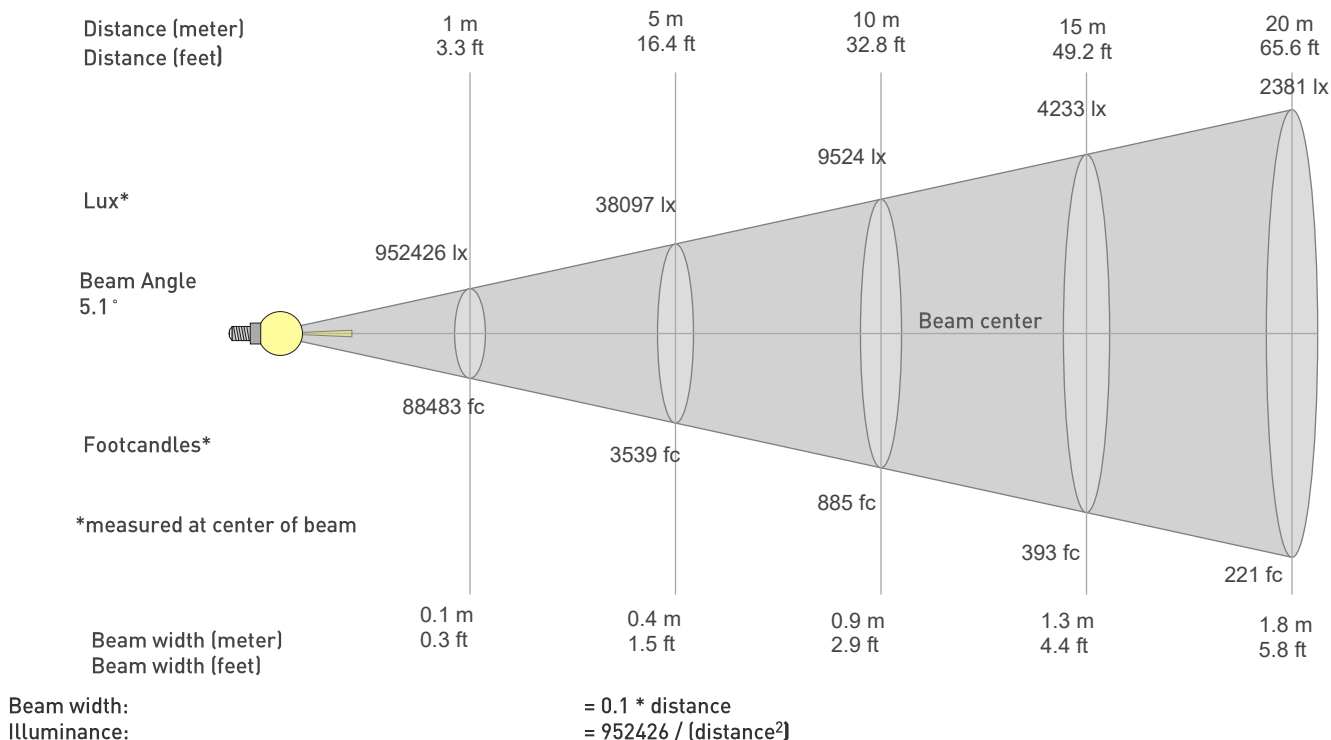
COLOR DISTORTION GRAPHICS



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BEAM DETAILS



distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

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
952426lx	238106lx	105825lx	59527lx	38097lx	26456lx	19437lx	14882lx	11758lx	9524lx	7871lx	6614lx	5636lx	4859lx	4233lx	3720lx	3296lx	2940lx	2638lx	2381lx
88483.2fc	22120.8fc	9831.5fc	5530.2fc	3539.3fc	2457.9fc	1805.8fc	1382.6fc	1092.4fc	884.8fc	731.3fc	614.5fc	523.6fc	451.4fc	393.3fc	345.6fc	306.2fc	273.1fc	245.1fc	221.2fc

