

Photometric Report

MAC Encore Two – 10 Degree

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

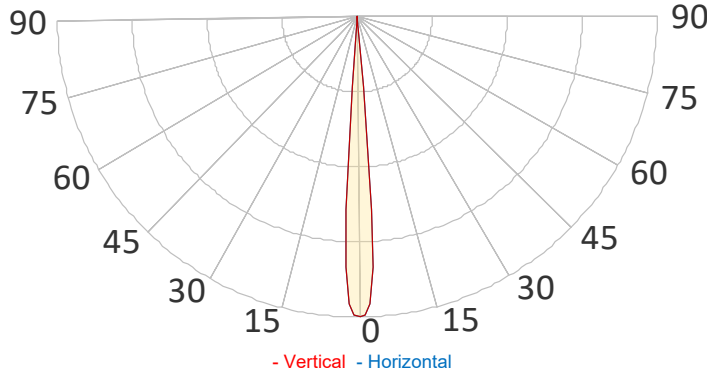
GENERAL SPECIFICATIONS

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

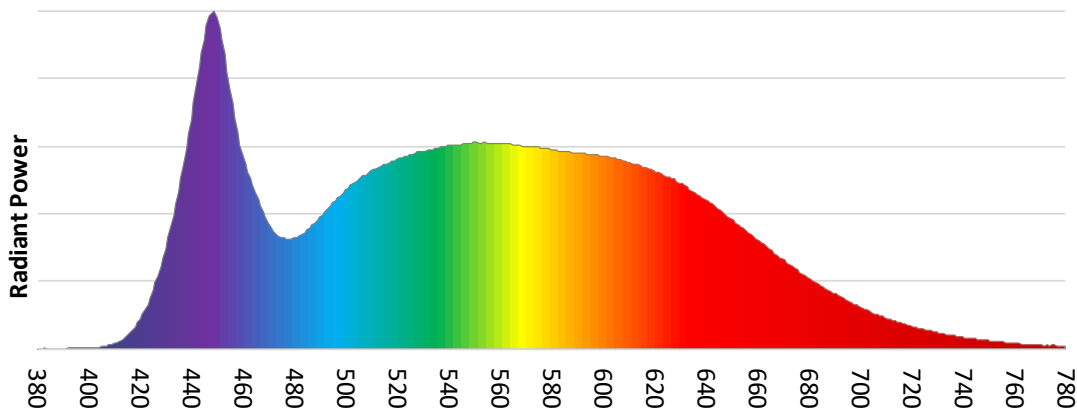


Catalog Number:	MAR-90250600HU
Measured Output:	17219 lm
Measured Peak:	904226 cd
Consumed Power:	737 W
Efficacy:	23.4 lm/W

Beam Angle (50%):	9.1°
Field Angle (10%):	11.2°
Cut-off Angle (3%):	11.8°

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

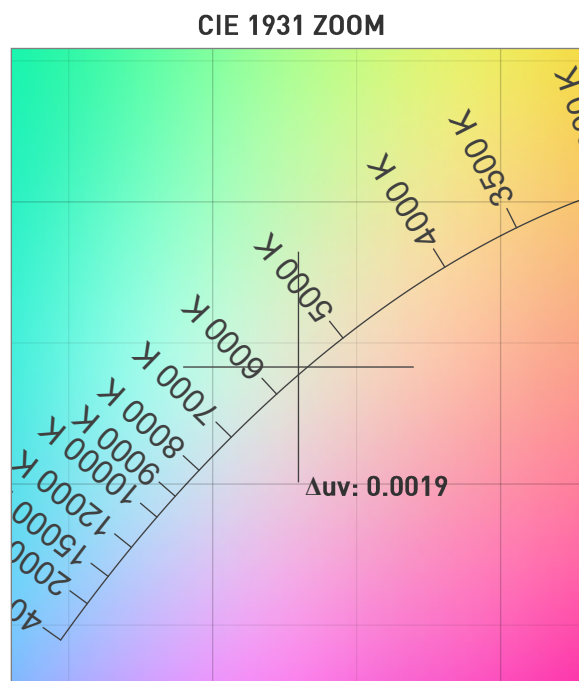
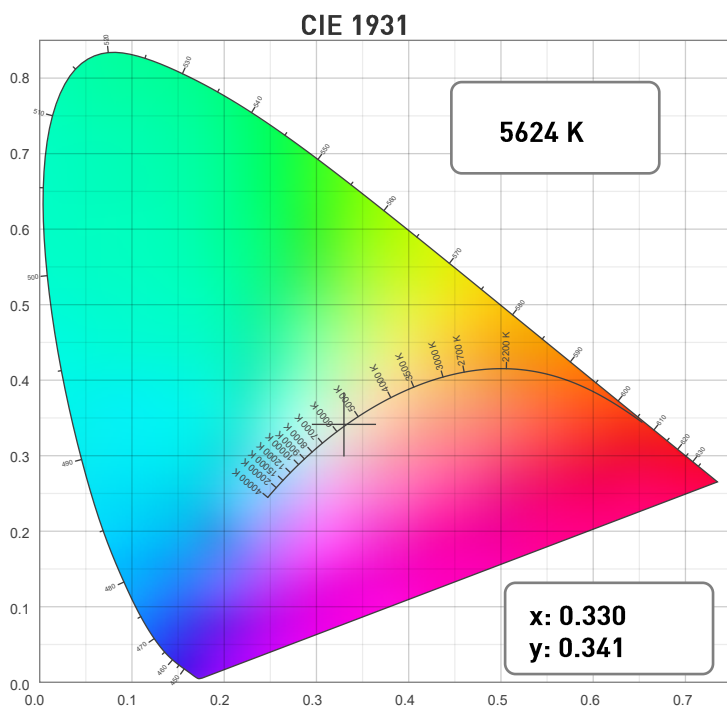
SPECTRAL DISTRIBUTION



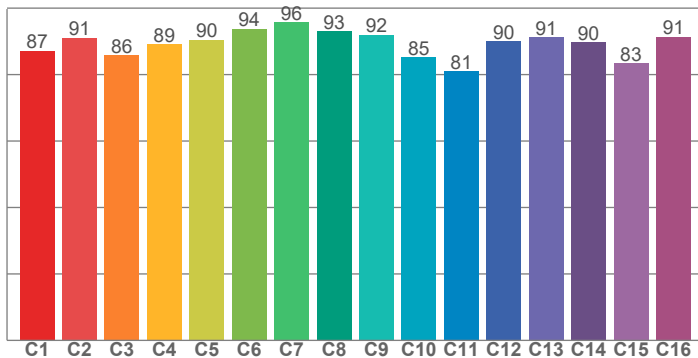
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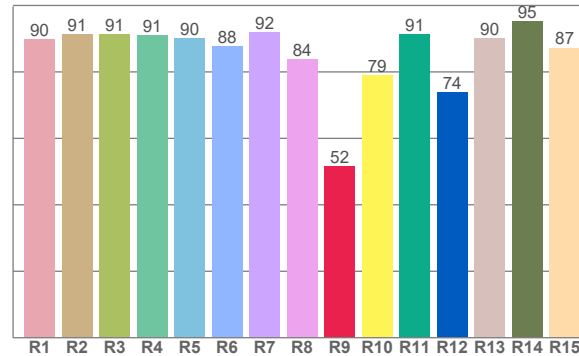
CHROMATICITY



TM30: 89.0



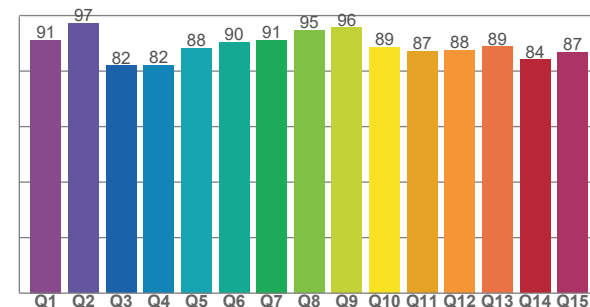
CRI: 89.6 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5624 K	89.6	51.6	89.0	99.9

CQS: 88.2



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
91	88.2	0.330	0.341	0.205	0.318	0.0019

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TM30

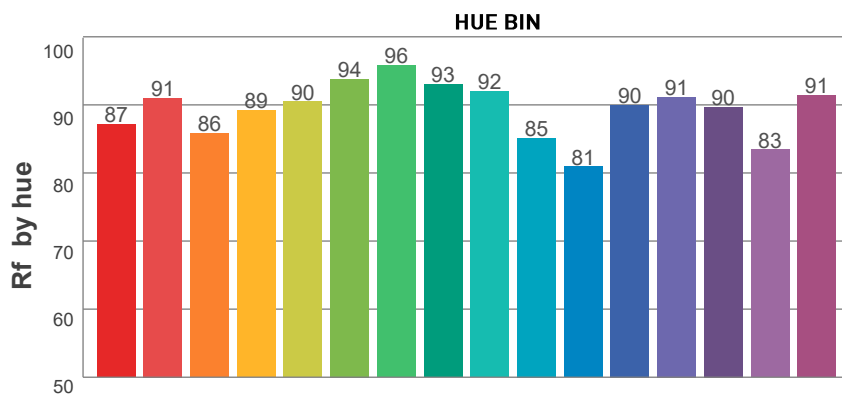
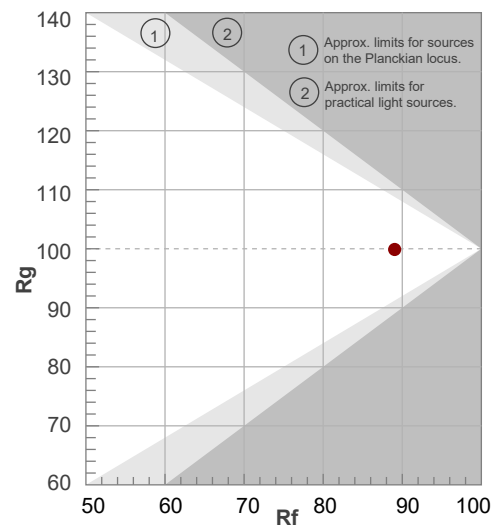
Rf 89.0

Fidelity index Rf

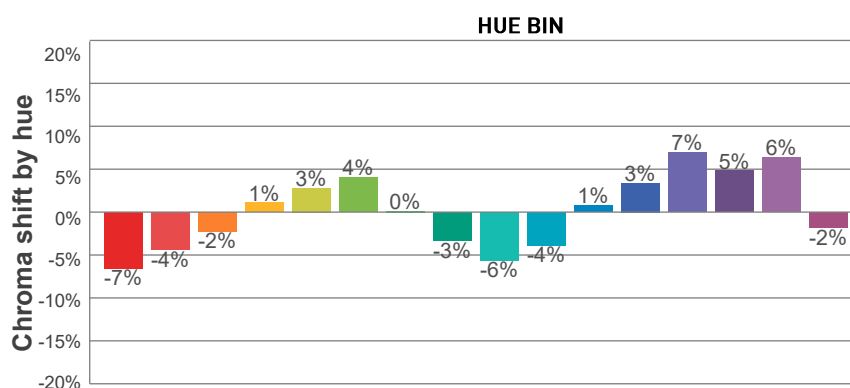
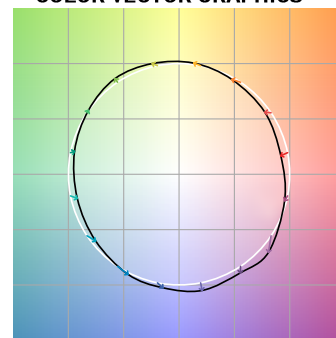
Rg 99.9

Gamut index Rg

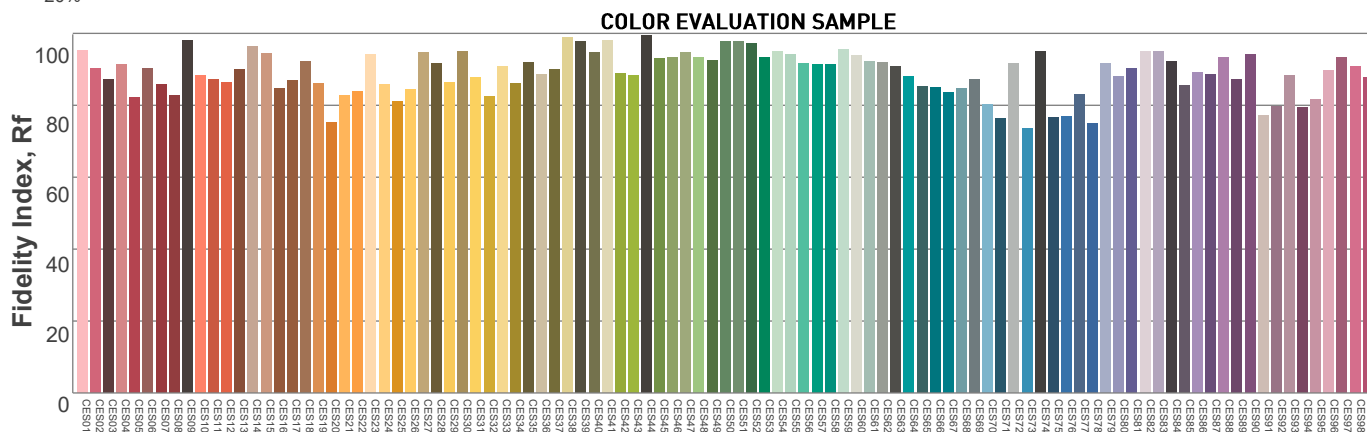
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	-7%	-2%
2	91	-4%	3%
3	86	-2%	8%
4	89	1%	7%
5	90	3%	4%
6	94	4%	0%
7	96	0%	-3%
8	93	-3%	-2%
9	92	-6%	3%
10	85	-4%	8%
11	81	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	83	6%	-14%
16	91	-2%	-5%



COLOR VECTOR GRAPHICS



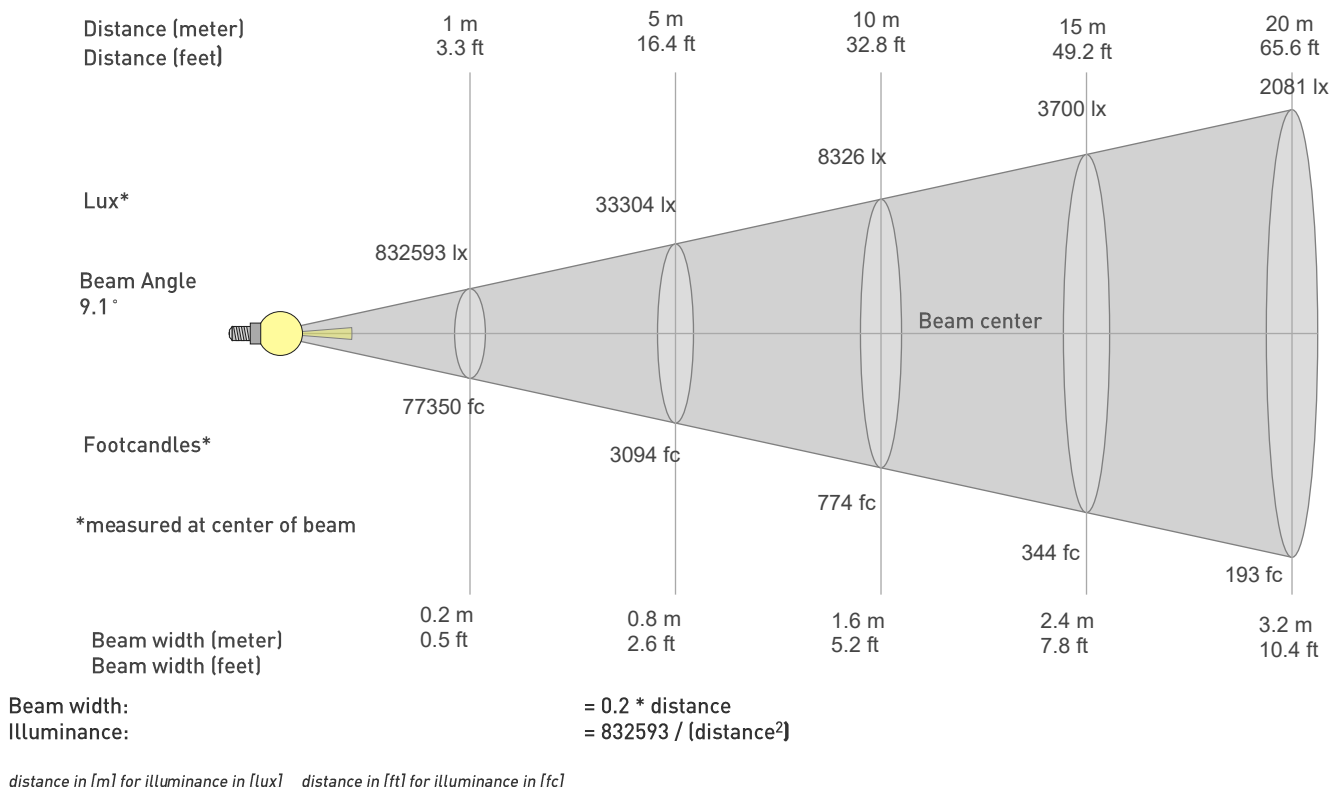
COLOR DISTORTION GRAPHICS



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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
832593lx	208148lx	92510lx	52037lx	33304lx	23128lx	16992lx	13009lx	10279lx	8326lx	6881lx	5782lx	4927lx	4248lx	3700lx	3252lx	2881lx	2570lx	2306lx	2081lx
77350.4fc	19337.6fc	8594.5fc	4834.4fc	3094fc	2148.6fc	1578.6fc	1208.6fc	954.9fc	773.5fc	639.3fc	537.2fc	457.7fc	394.6fc	343.8fc	302.2fc	267.6fc	238.7fc	214.3fc	193.4fc

