

Photometric Report

MAC Encore Two – 10 Degree

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

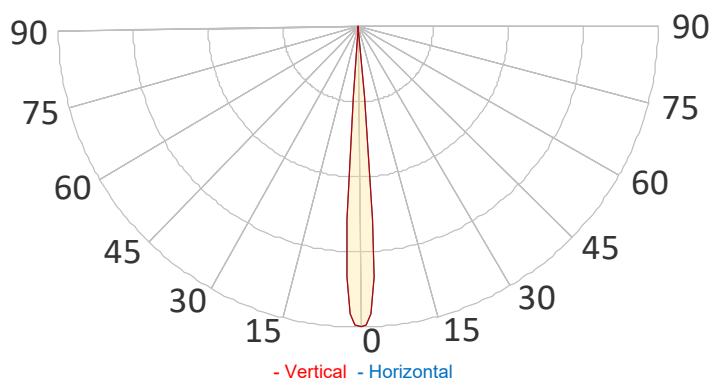
GENERAL SPECIFICATIONS

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

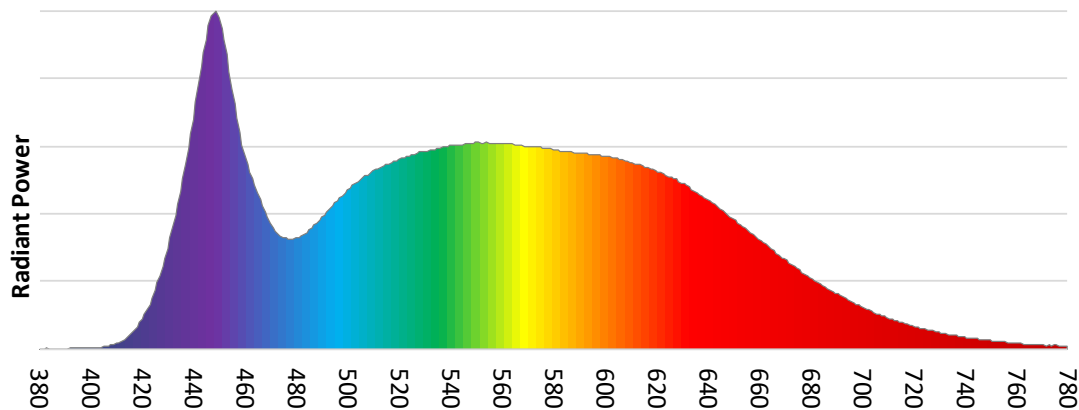


Catalog Number:	MAR-90250600HU
Measured Output:	9566 lm
Measured Peak:	503675 cd
Consumed Power:	341 W
Efficacy:	28.1 lm/W

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 Ultra Low
Fixture Warm-up Time:	30 minutes

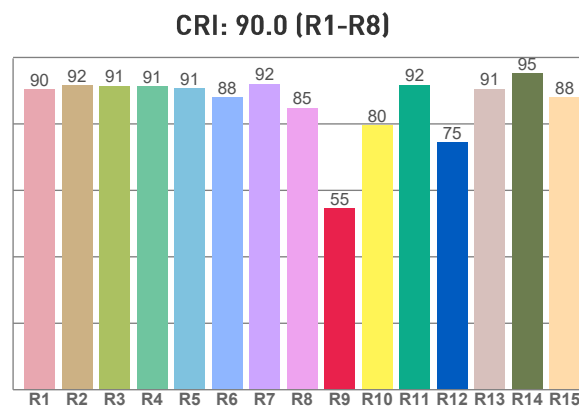
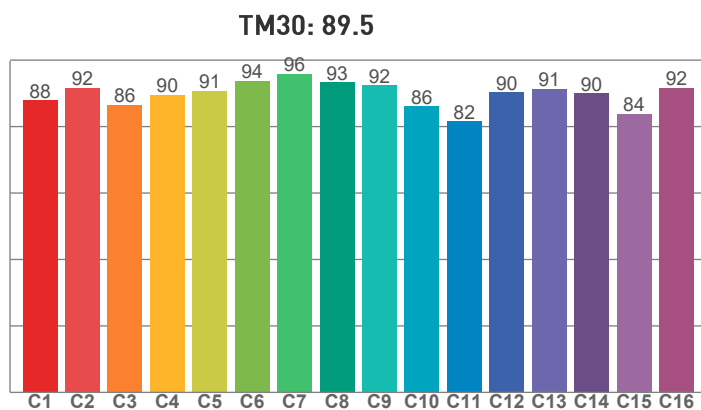
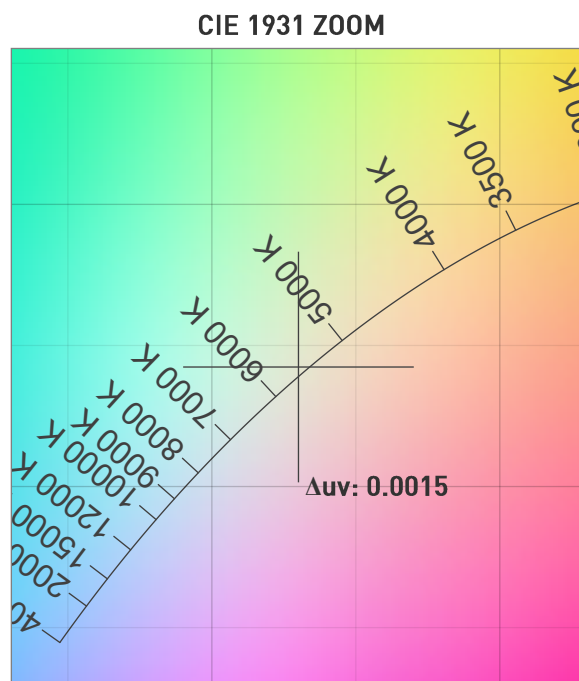
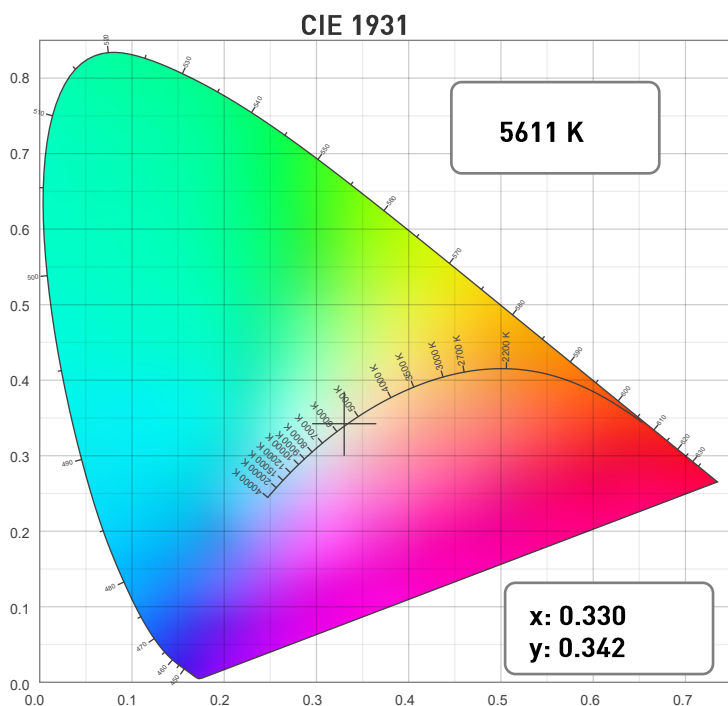
SPECTRAL DISTRIBUTION



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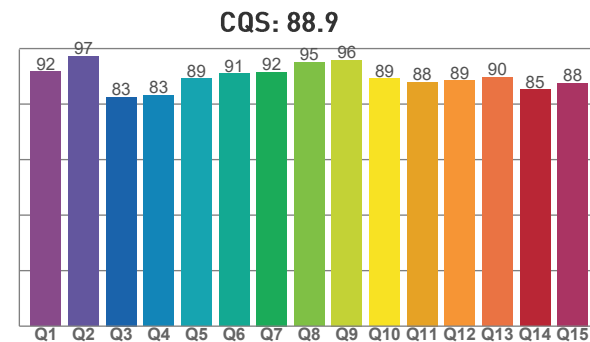
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5611 K	90.0	54.7	89.5	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
93	88.9	0.330	0.342	0.205	0.319	0.0015

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TM30

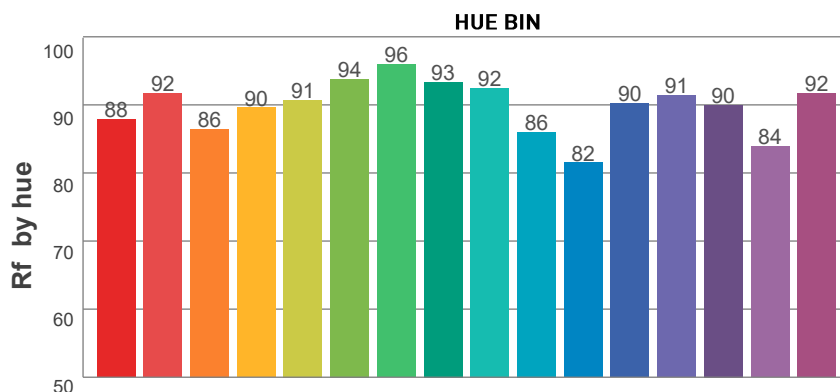
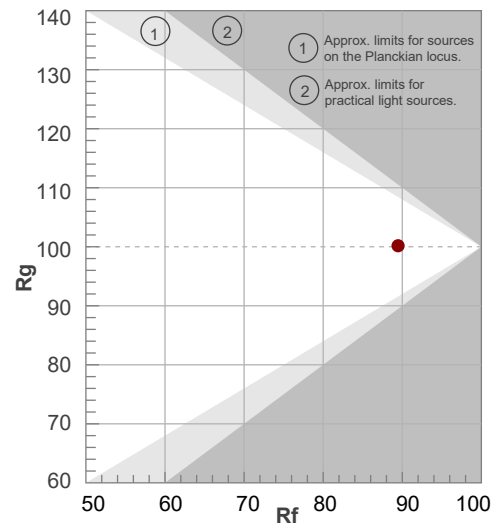
Rf 89.5

Fidelity index Rf

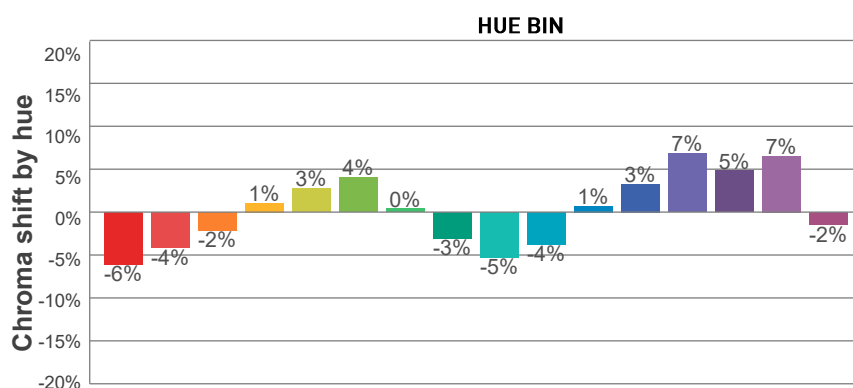
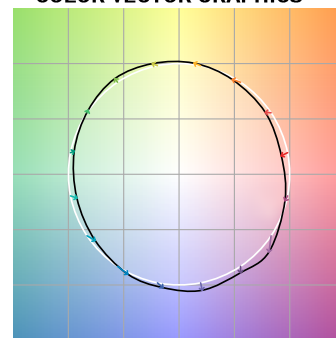
Rg 100.2

Gamut index Rg

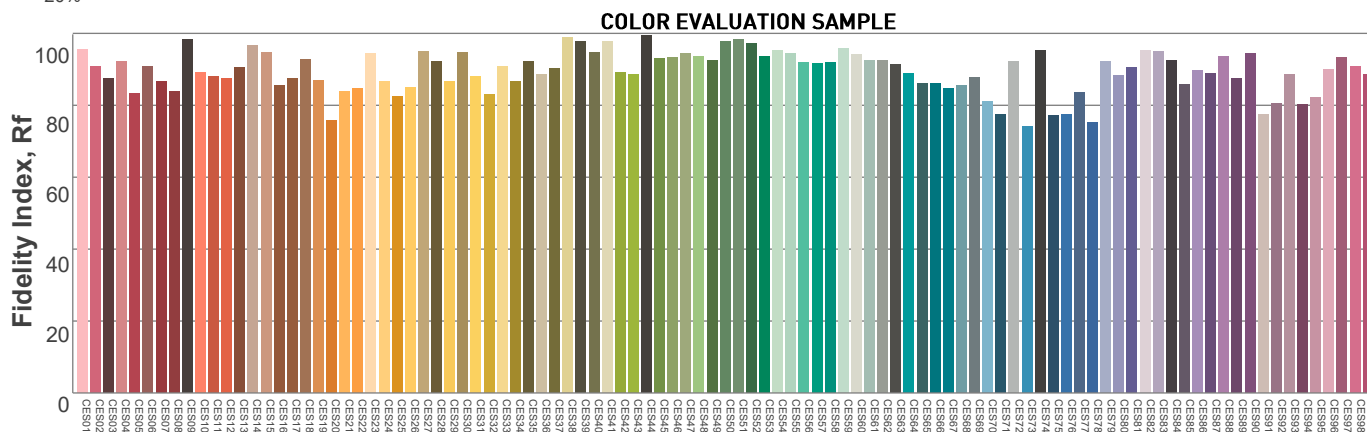
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-6%	-2%
2	92	-4%	3%
3	86	-2%	7%
4	90	1%	6%
5	91	3%	4%
6	94	4%	0%
7	96	0%	-2%
8	93	-3%	-2%
9	92	-5%	3%
10	86	-4%	8%
11	82	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	84	7%	-13%
16	92	-2%	-5%



COLOR VECTOR GRAPHICS



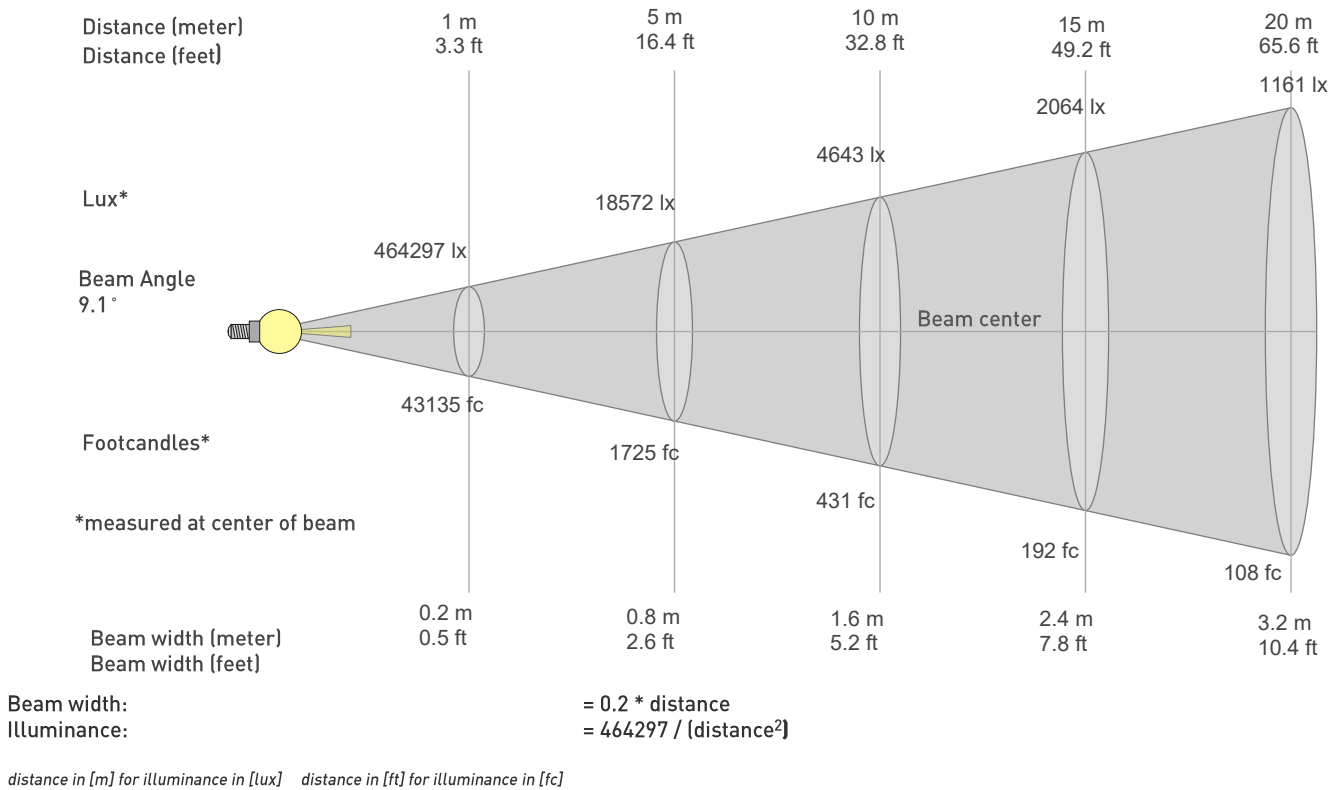
COLOR DISTORTION GRAPHICS



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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
464297lx	116074lx	51589lx	29019lx	18572lx	12897lx	9475lx	7255lx	5732lx	4643lx	3837lx	3224lx	2747lx	2369lx	2064lx	1814lx	1607lx	1433lx	1286lx	1161lx
43134.6fc	10783.7fc	4792.7fc	2695.9fc	1725.4fc	1198.2fc	880.3fc	674fc	532.5fc	431.3fc	356.5fc	299.5fc	255.2fc	220.1fc	191.7fc	168.5fc	149.3fc	133.1fc	119.5fc	107.8fc

