

Photometric Report

MAC Encore Two – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

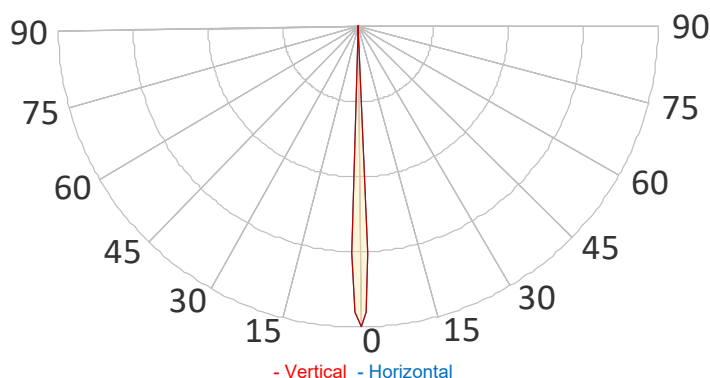
GENERAL SPECIFICATIONS

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

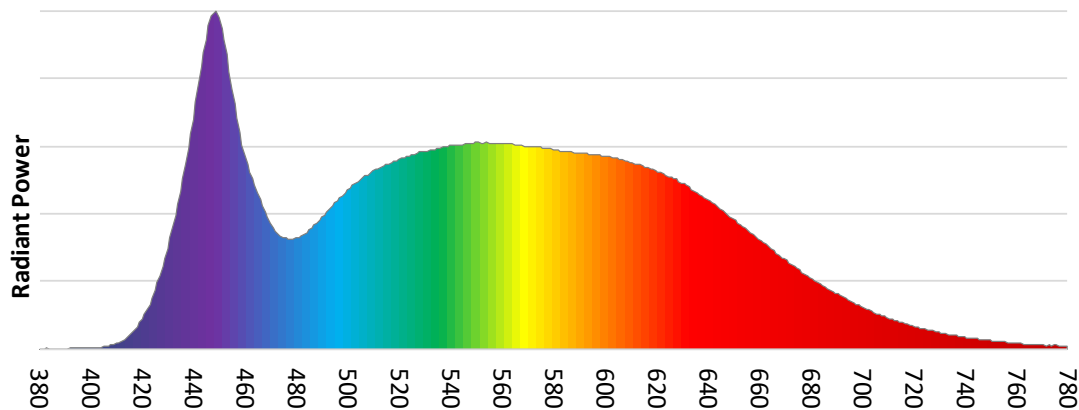


Catalog Number:	MAR-90250600HU
Measured Output:	11818 lm
Measured Peak:	1825373 cd
Consumed Power:	737 W
Efficacy:	16 lm/W

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 Medium
Fixture Warm-up Time:	30 minutes

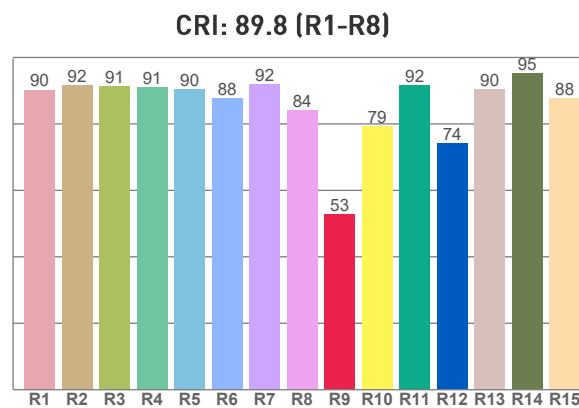
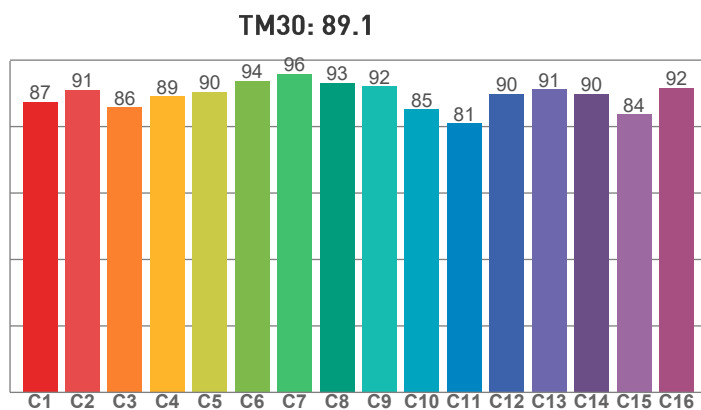
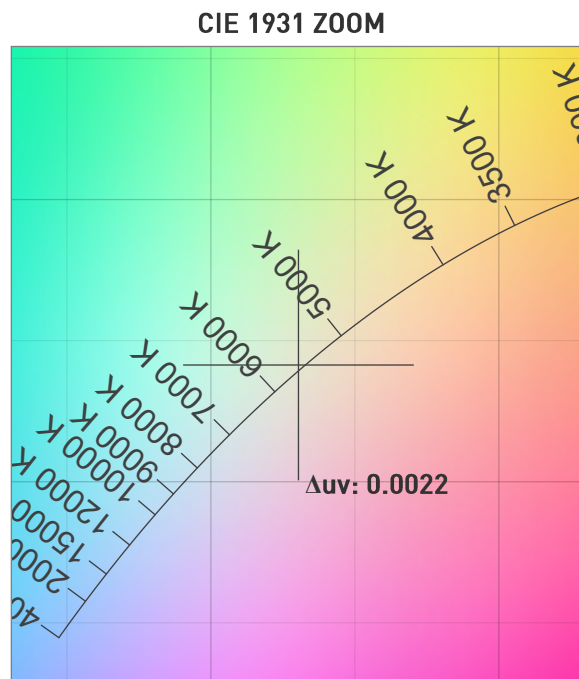
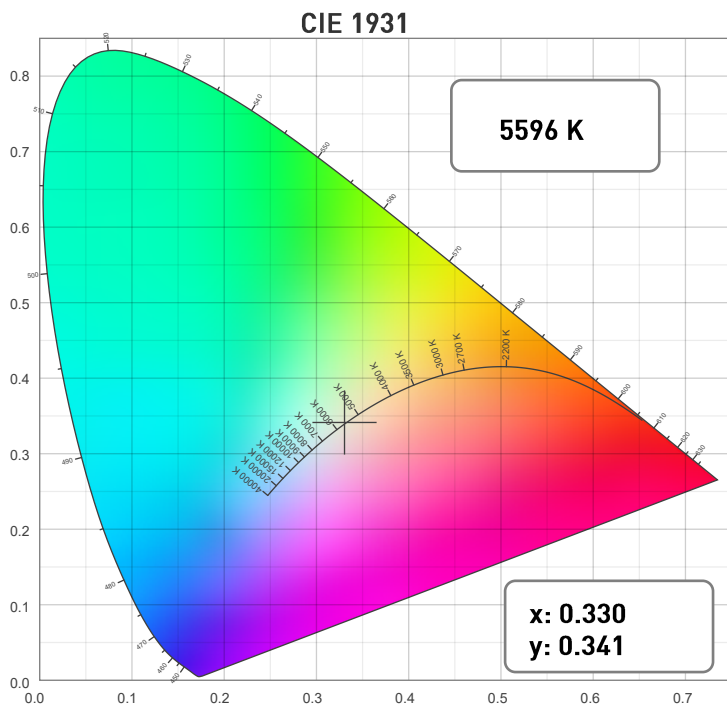
SPECTRAL DISTRIBUTION



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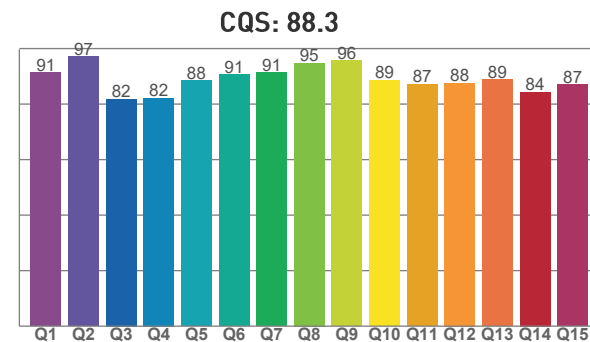
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5596 K	89.8	52.8	89.1	100.0



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	88.3	0.330	0.341	0.205	0.318	0.0022

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TM30

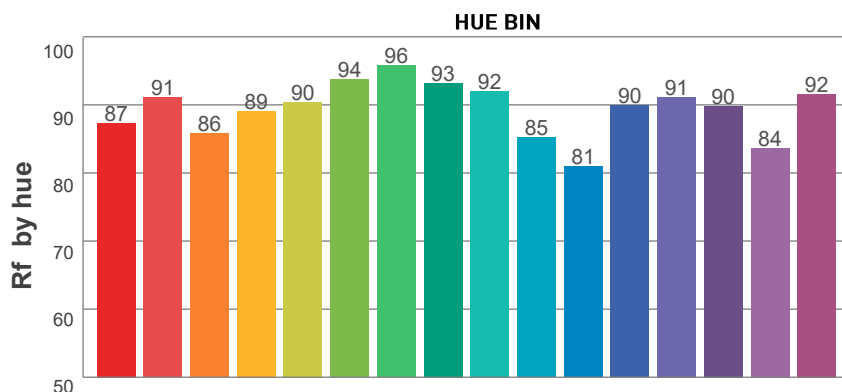
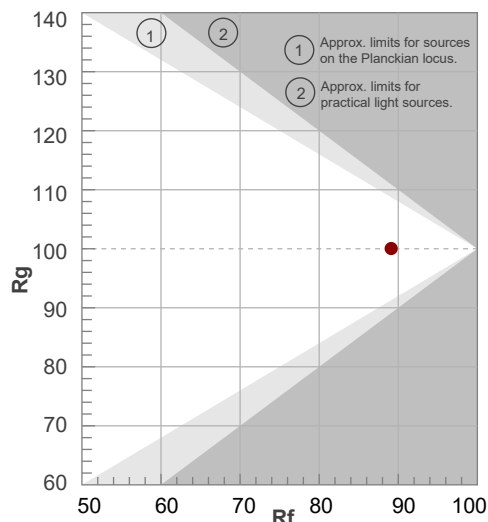
Rf 89.1

Fidelity index Rf

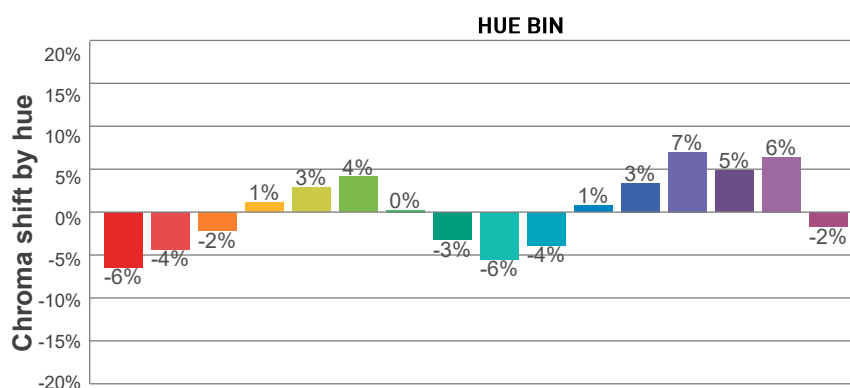
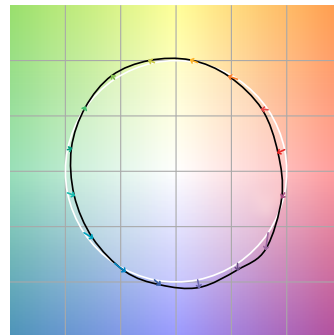
Rg 100.0

Gamut index Rg

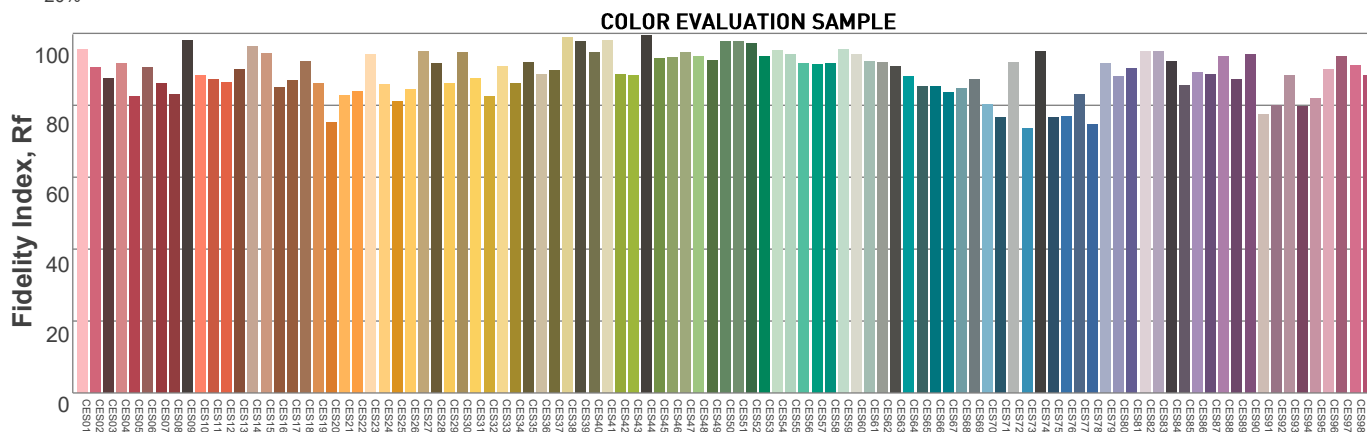
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	87	-6%	-1%
2	91	-4%	3%
3	86	-2%	8%
4	89	1%	7%
5	90	3%	4%
6	94	4%	0%
7	96	0%	-2%
8	93	-3%	-2%
9	92	-6%	3%
10	85	-4%	8%
11	81	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	84	6%	-13%
16	92	-2%	-5%



COLOR VECTOR GRAPHICS



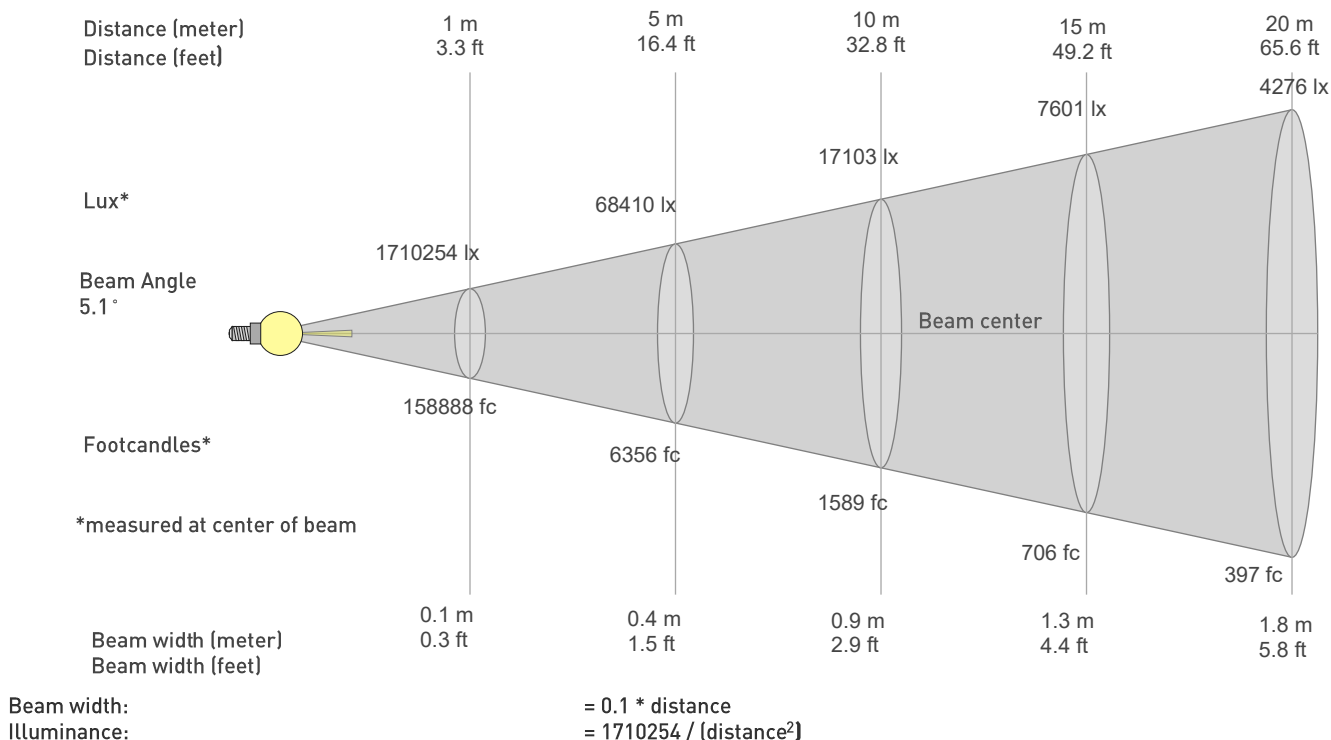
COLOR DISTORTION GRAPHICS



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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
1710254lx	427563lx	190028lx	106891lx	68410lx	47507lx	34903lx	26723lx	21114lx	17103lx	14134lx	11877lx	10120lx	8726lx	7601lx	6681lx	5918lx	5279lx	4738lx	4276lx
158887.8fc	39721.9fc	17654.2fc	9930.5fc	6355.5fc	4413.5fc	3242.6fc	2482.6fc	1961.6fc	1588.9fc	1313.1fc	1103.4fc	940.2fc	810.7fc	706.2fc	620.7fc	549.8fc	490.4fc	440.1fc	397.2fc

