

# Photometric Report

MAC Encore Two – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

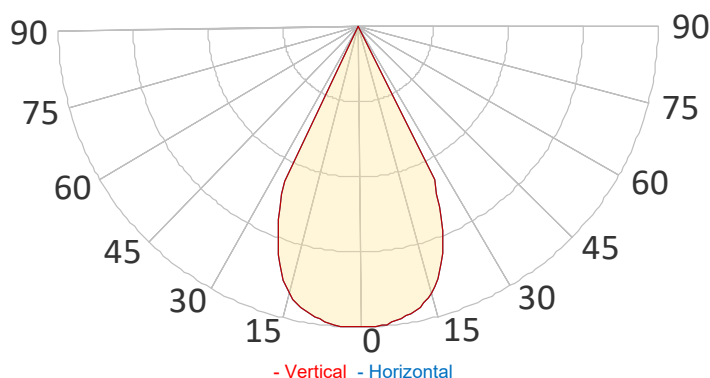
## GENERAL SPECIFICATIONS

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

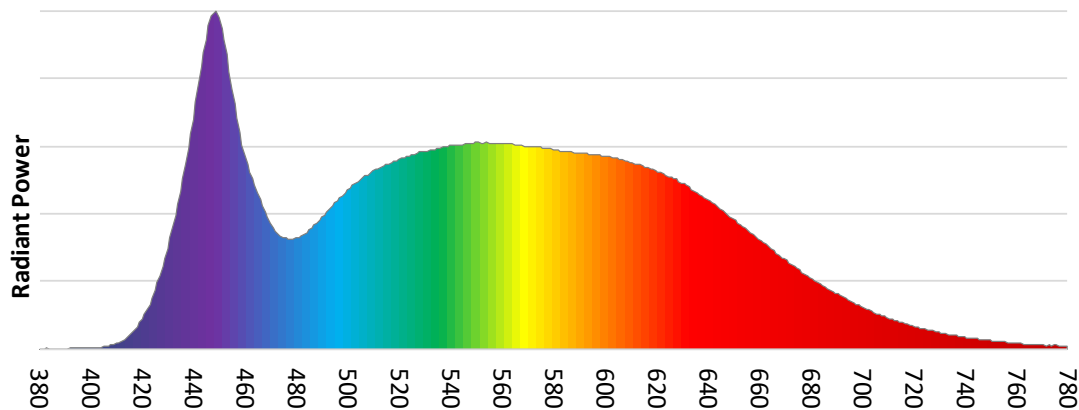


Catalog Number:	MAR-90250600HU
Measured Output:	10489 lm
Measured Peak:	21278 cd
Consumed Power:	341 W
Efficacy:	30.8 lm/W

Beam Angle (50%):	50.1°
Field Angle (10%):	53.6°
Cut-off Angle (3%):	53.9°

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

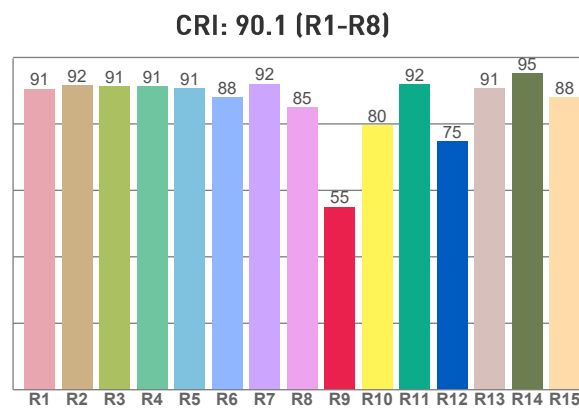
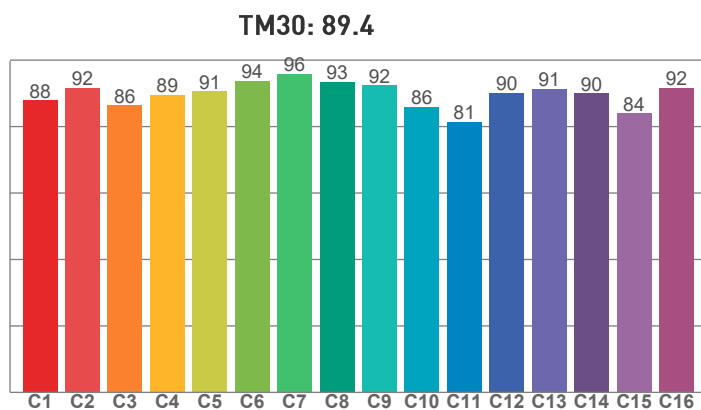
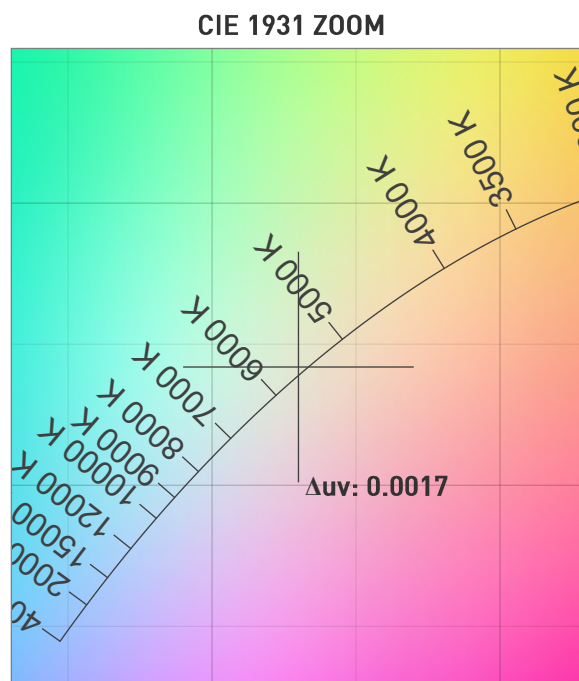
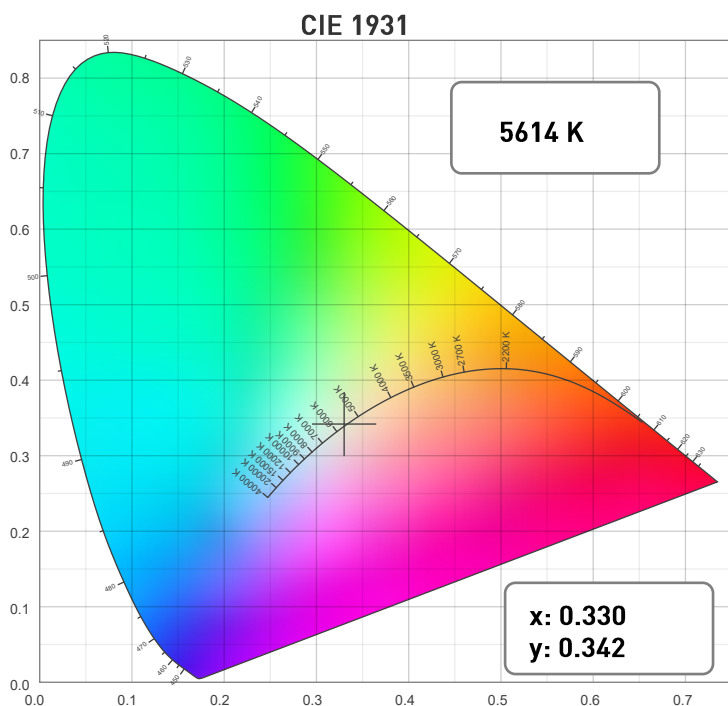
SPECTRAL DISTRIBUTION



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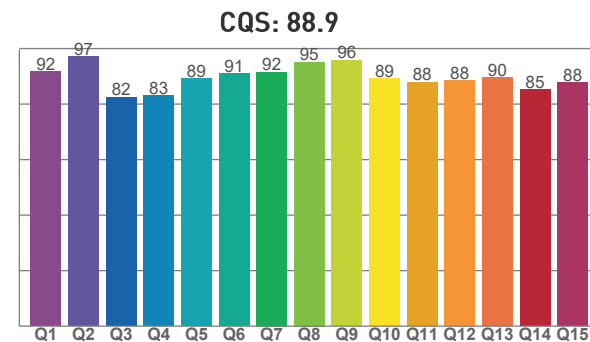
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5614 K	90.1	55.0	89.4	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	0.318	0.0017

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TM30

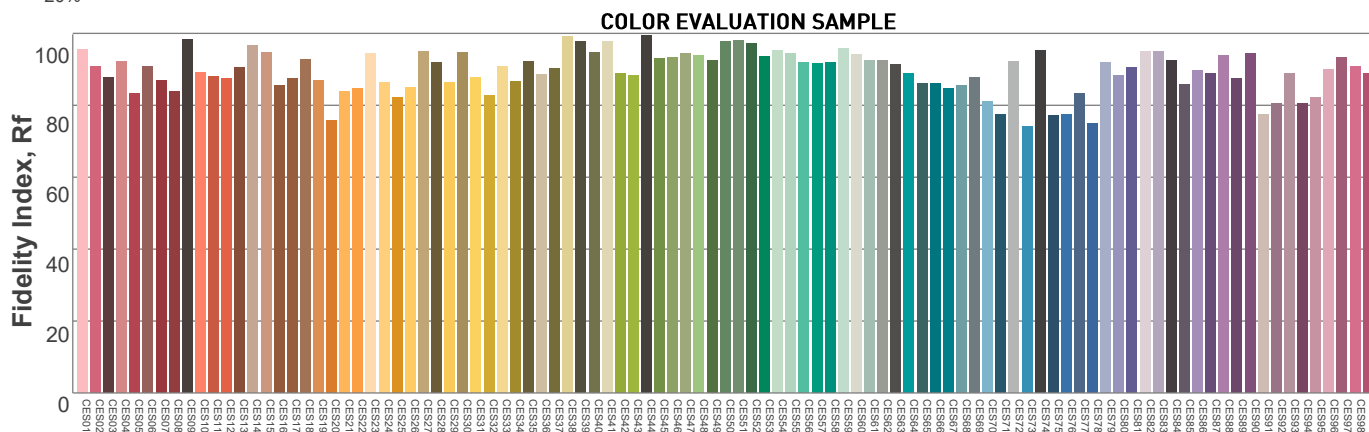
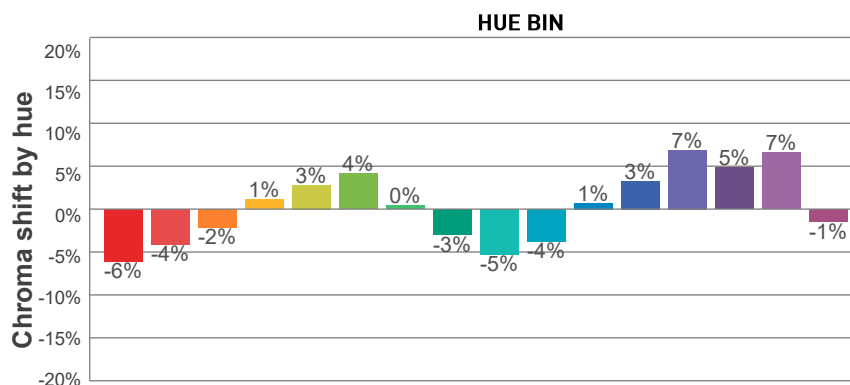
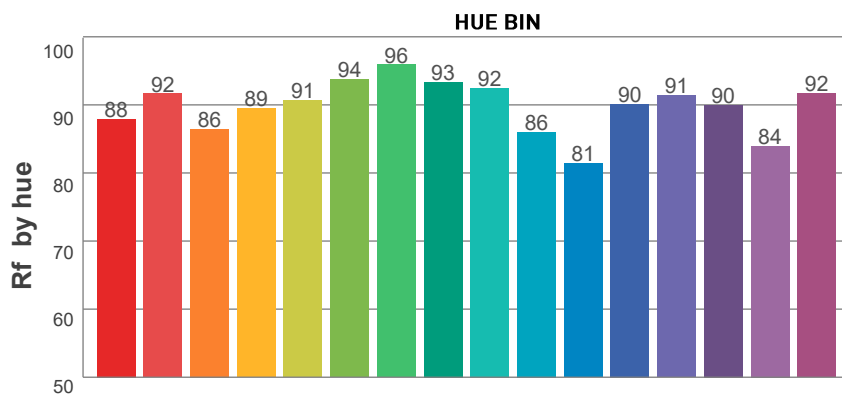
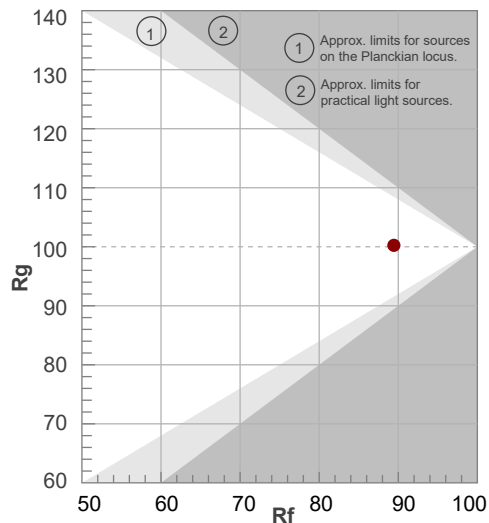
**Rf 89.4**

Fidelity index Rf

**Rg 100.2**

Gamut index Rg

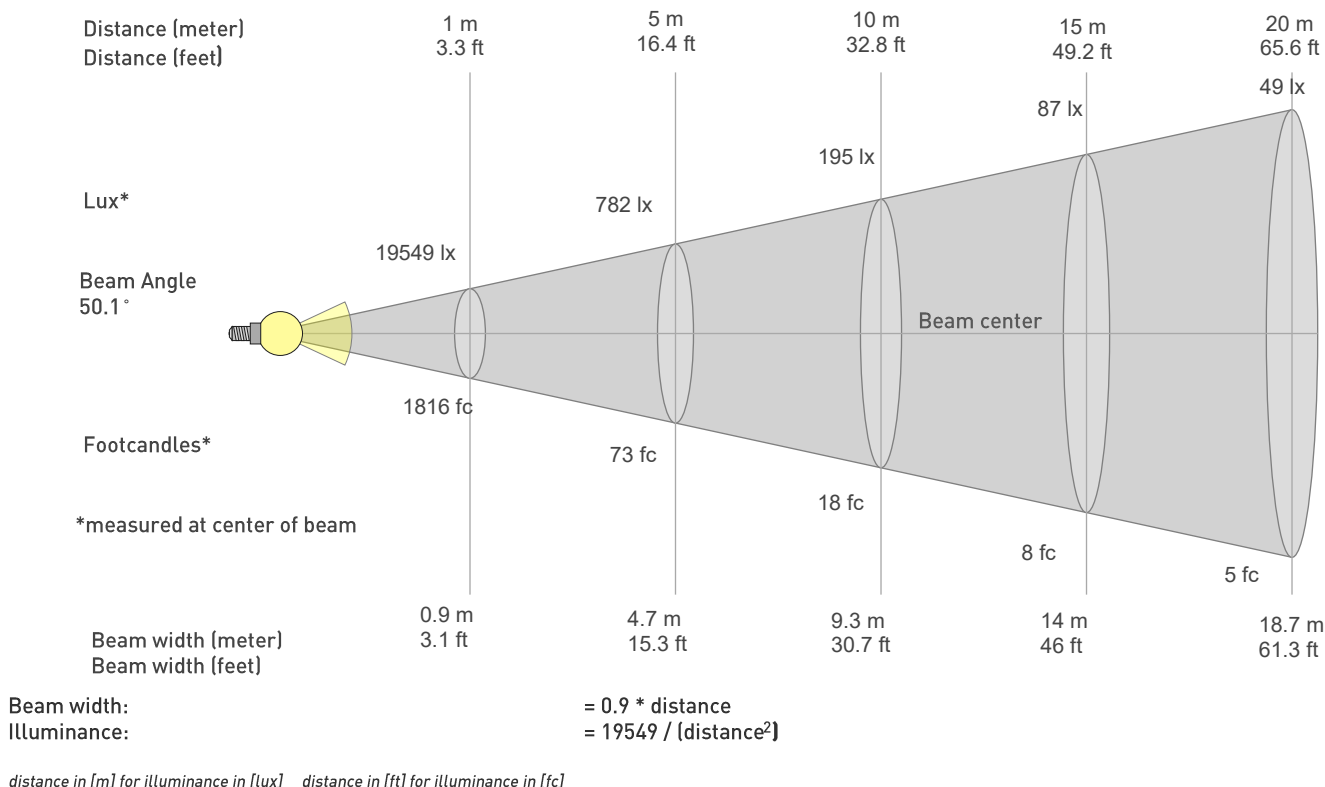
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	88	-6%	-2%
2	92	-4%	3%
3	86	-2%	7%
4	89	1%	6%
5	91	3%	4%
6	94	4%	0%
7	96	0%	-2%
8	93	-3%	-2%
9	92	-5%	3%
10	86	-4%	8%
11	81	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	84	7%	-13%
16	92	-1%	-5%



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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
19549lx	4887lx	2172lx	1222lx	782lx	543lx	399lx	305lx	241lx	195lx	162lx	136lx	116lx	100lx	87lx	76lx	68lx	60lx	54lx	49lx
1816.2fc	454fc	201.8fc	113.5fc	72.6fc	50.4fc	37.1fc	28.4fc	22.4fc	18.2fc	15fc	12.6fc	10.7fc	9.3fc	8.1fc	7.1fc	6.3fc	5.6fc	5fc	4.5fc

