

# Photometric Report

MAC Encore Two – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

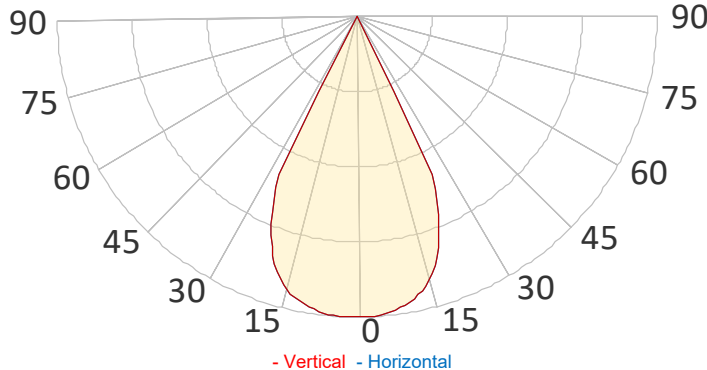
## GENERAL SPECIFICATIONS

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

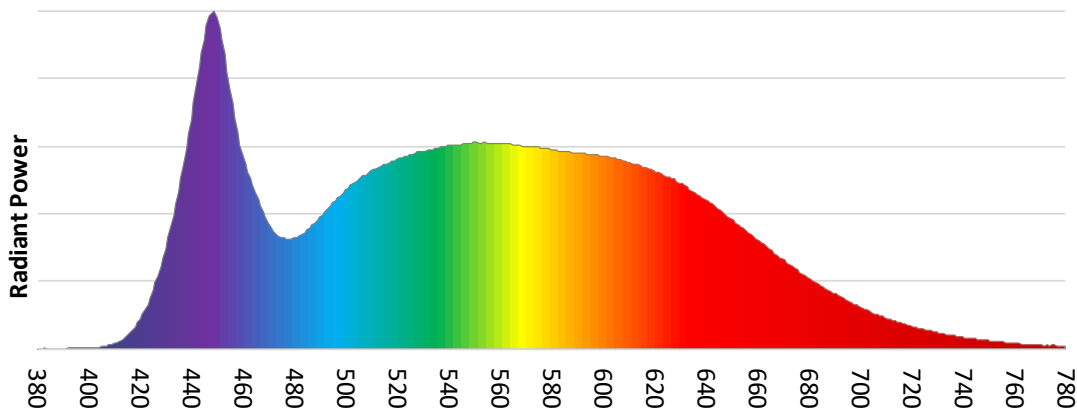


Catalog Number:	MAR-90250600HU
Measured Output:	20574 lm
Measured Peak:	41428 cd cd
Consumed Power:	855 W
Efficacy:	24.1 lm/W

Beam Angle (50%):	50.1°
Field Angle (10%):	53.5°
Cut-off Angle (3%):	53.9°

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

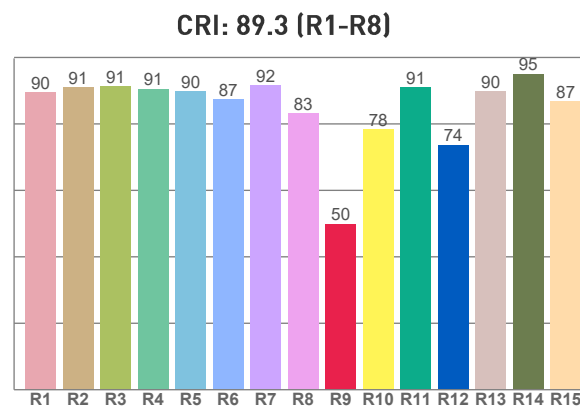
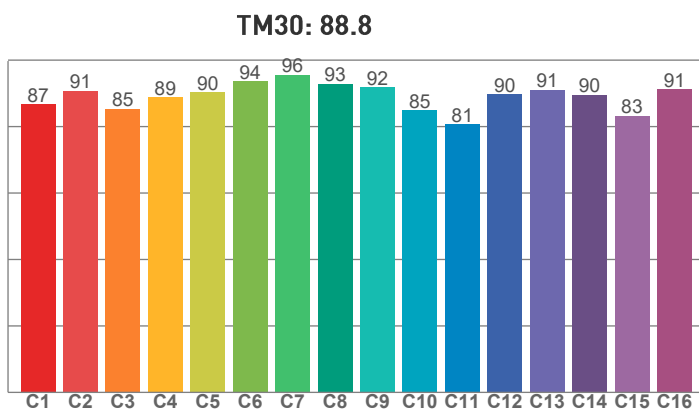
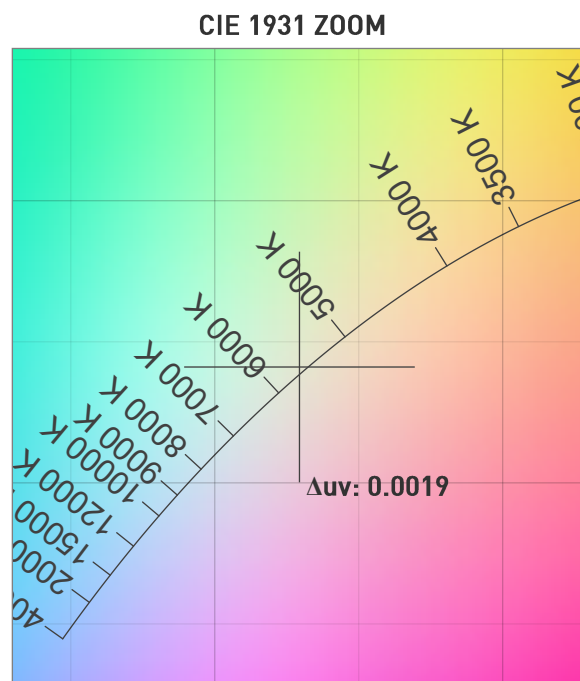
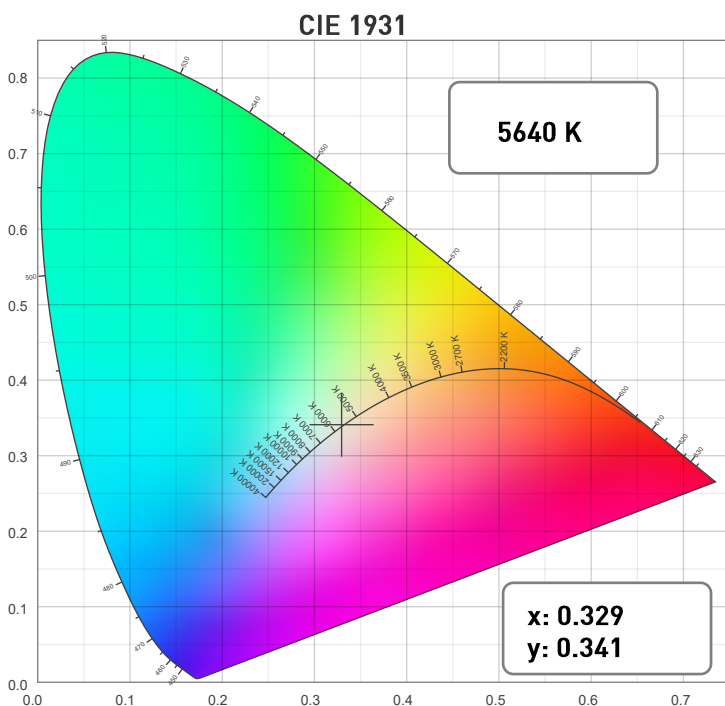
SPECTRAL DISTRIBUTION



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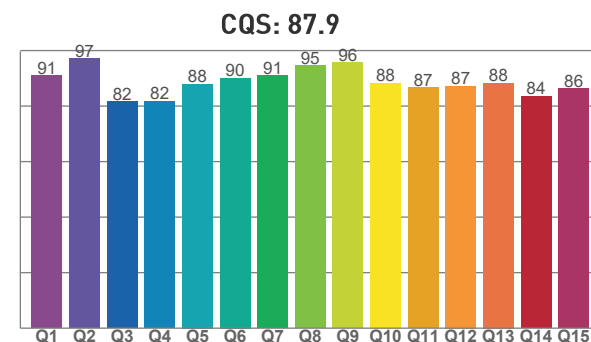
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## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5640 K	89.3	49.9	88.8	99.8



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	87.9	0.329	0.341	0.205	0.318	0.0019

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TM30

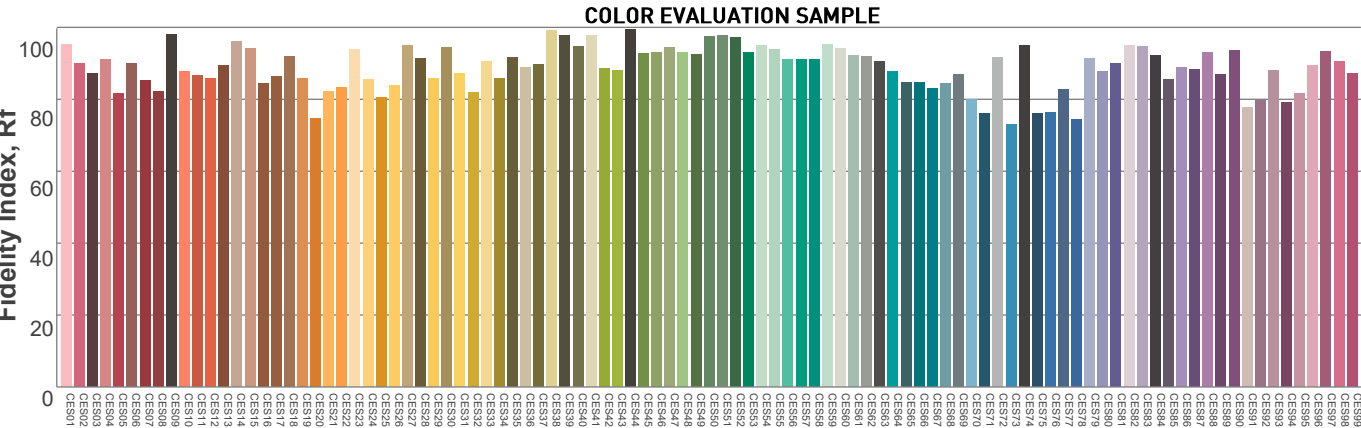
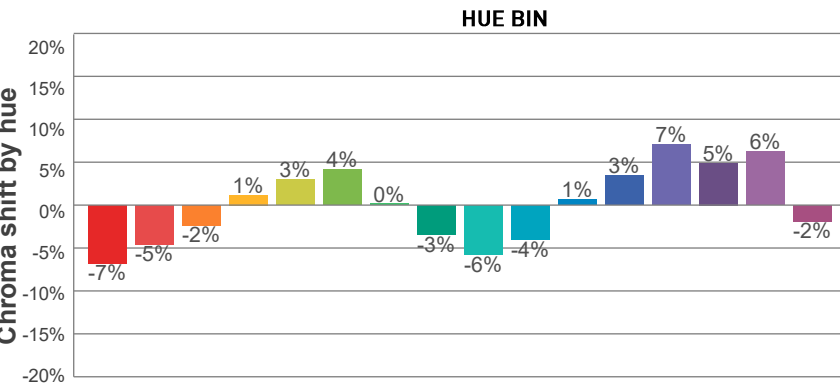
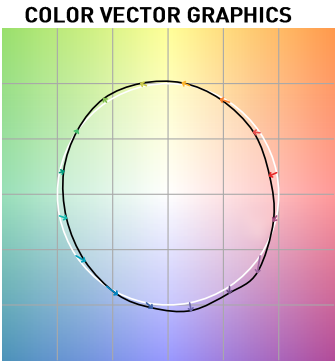
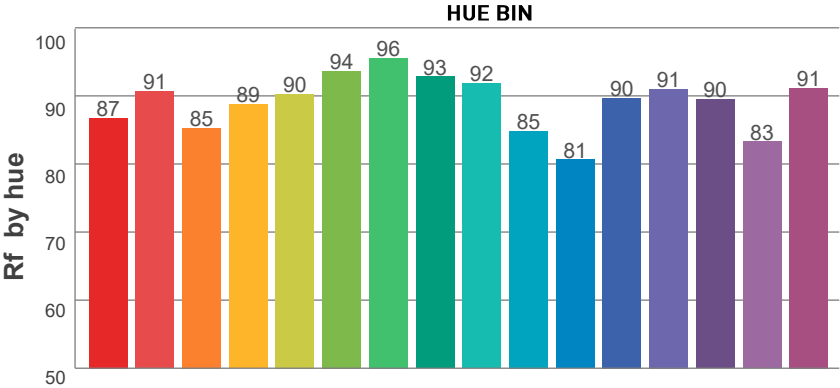
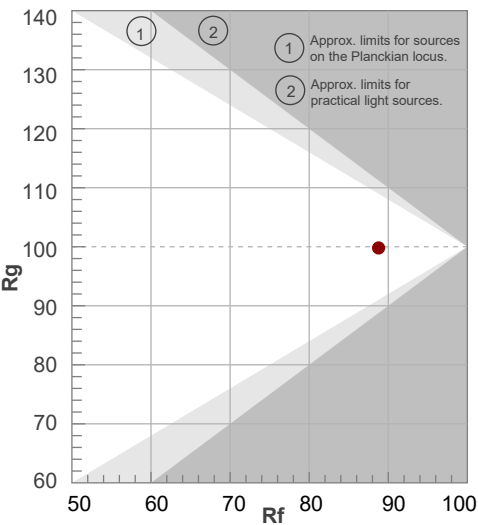
Rf 88.8

Fidelity index Rf

Rg 99.8

Gamut index Rg

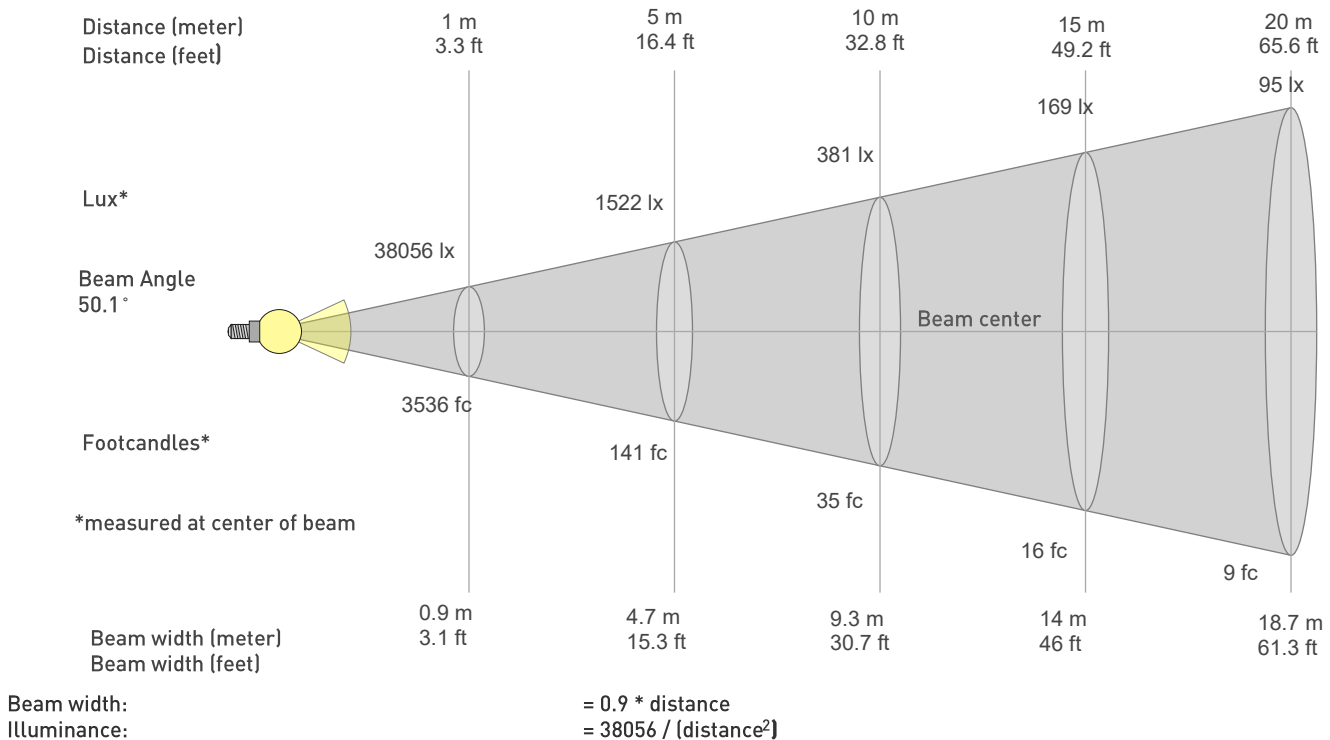
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	87	-7%	-2%
2	91	-5%	4%
3	85	-2%	8%
4	89	1%	7%
5	90	3%	4%
6	94	4%	0%
7	96	0%	-3%
8	93	-3%	-2%
9	92	-6%	3%
10	85	-4%	8%
11	81	1%	12%
12	90	3%	6%
13	91	7%	0%
14	90	5%	-3%
15	83	6%	-14%
16	91	-2%	-5%



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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
38056lx	9514lx	4228lx	2379lx	1522lx	1057lx	777lx	595lx	470lx	381lx	315lx	264lx	225lx	194lx	169lx	149lx	132lx	117lx	105lx	95lx
3535.5fc	883.9fc	392.8fc	221fc	141.4fc	98.2fc	72.2fc	55.2fc	43.6fc	35.4fc	29.2fc	24.6fc	20.9fc	18fc	15.7fc	13.8fc	12.2fc	10.9fc	9.8fc	8.8fc

