

# Photometric Report

ERA 700 IP – Wide with CRI Filter

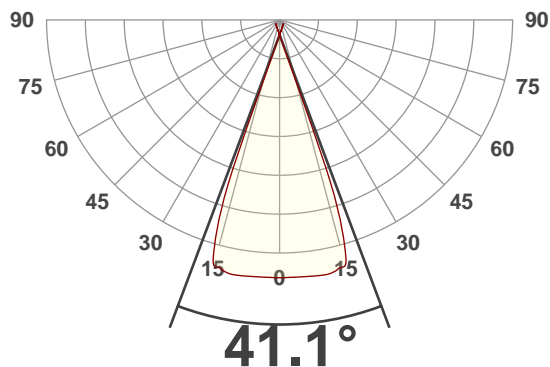
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	26000 lm
Light Engine Output:	46000 lm
Efficacy:	28 Lumen/Watt
Lens Option:	N/A
Zoomrange:	5.4-44 °
CRI:	90
CQS:	88
TM-30 Rf:	87
TM-30 Rg:	106
TLCI:	73
Color Temperature:	6500 k



## MEASUREMENT

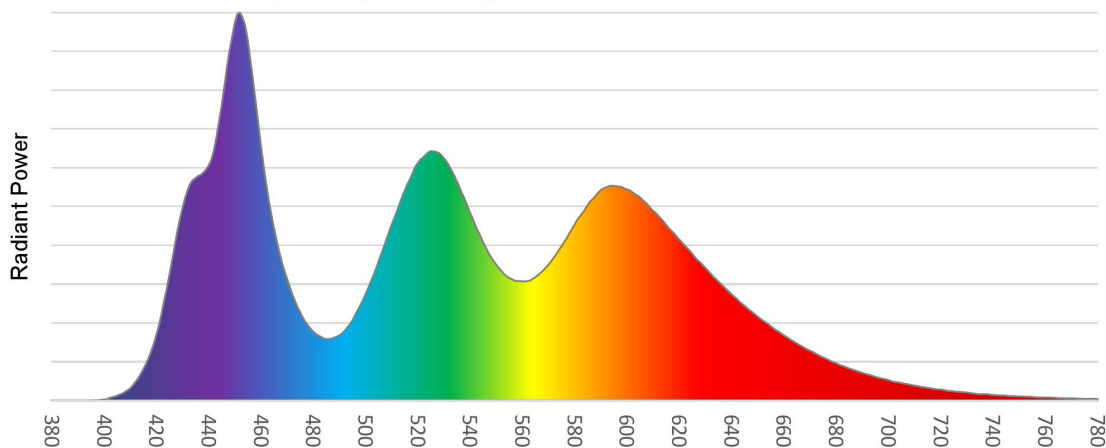


Catalog Number:	15600768015
Measured Output:	16420 lm
Measured Peak:	66378 cd
Consumed Power:	874 W
Efficacy:	29.6 lm/Watt

Beam Angle (50%):	41.1 °
Field Angle (10%):	44.2 °
Cutoff Angle (3%):	44.8 °

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

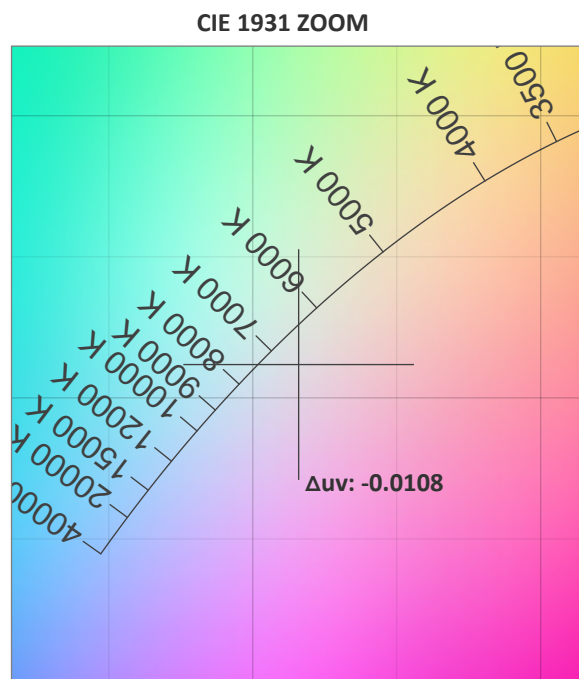
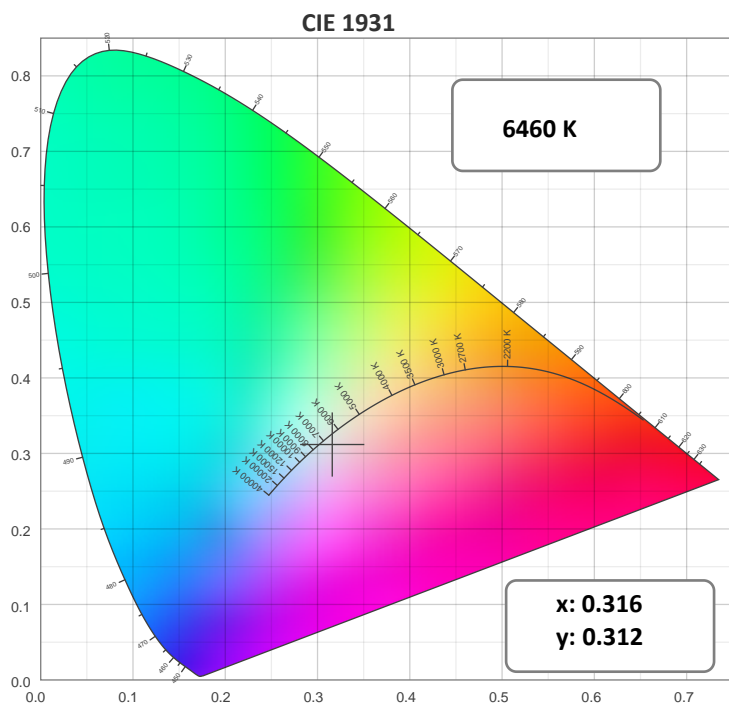
## SPECTRAL DISTRIBUTION



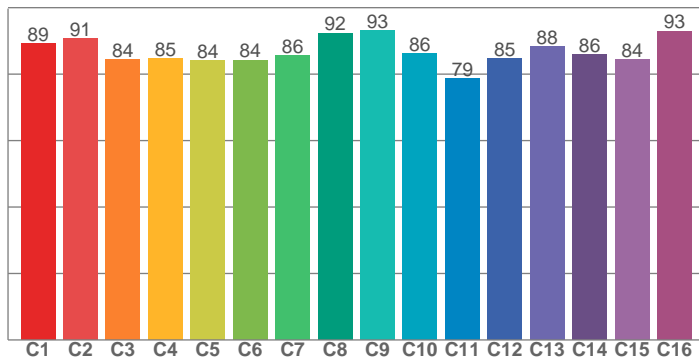
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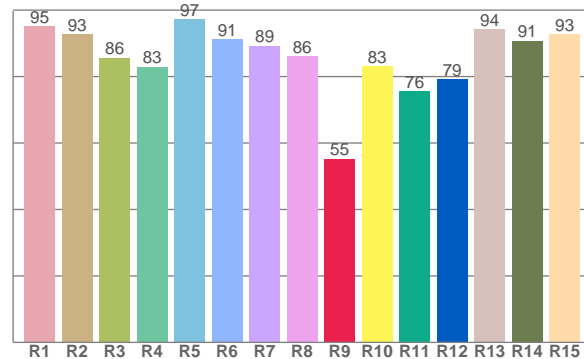
## CHROMATICITY



TM30: 86.5



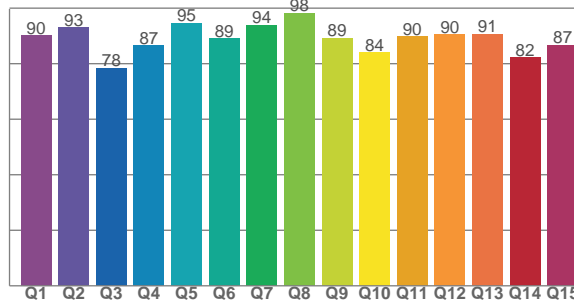
CRI: 90.0 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6460 K	90.0	55.3	86.5	105.9

CQS: 88.1



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	$\Delta uv$
73	88.1	0.316	0.312	0.207	0.306	-0.0108

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TM30

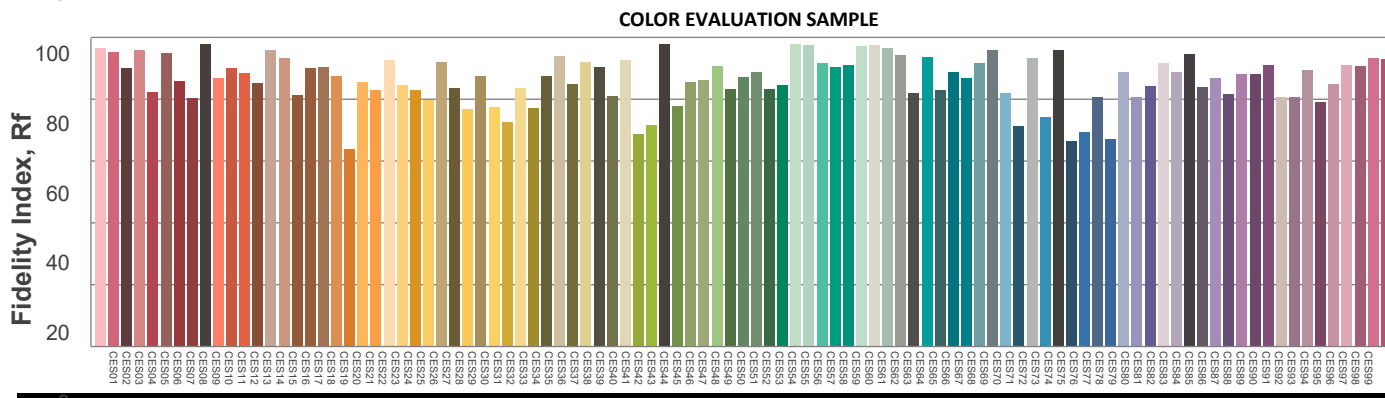
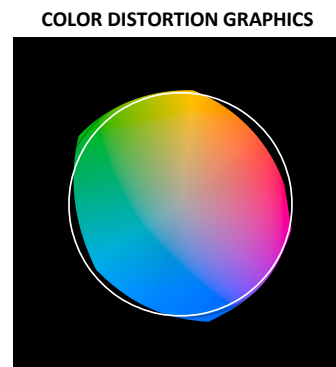
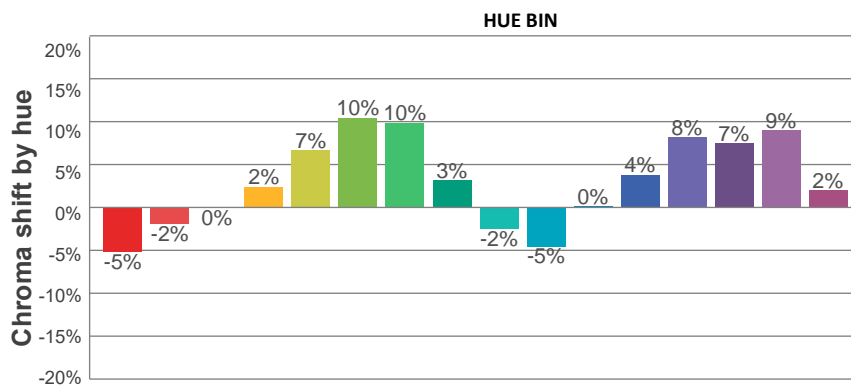
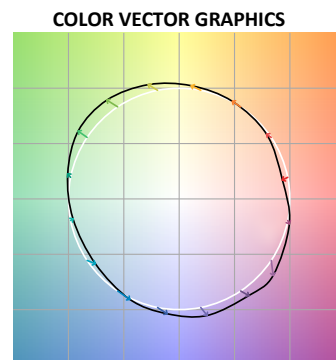
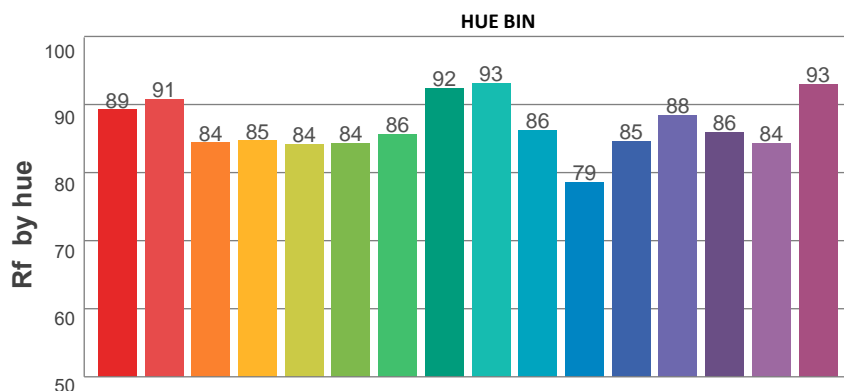
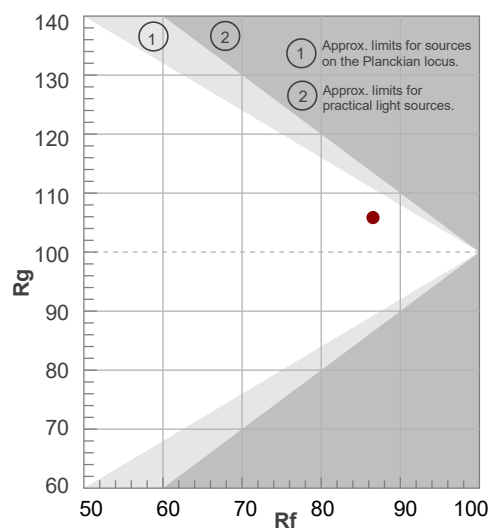
**Rf 86.5**

Fidelity index Rf

**Rg 105.9**

Gamut index Rg

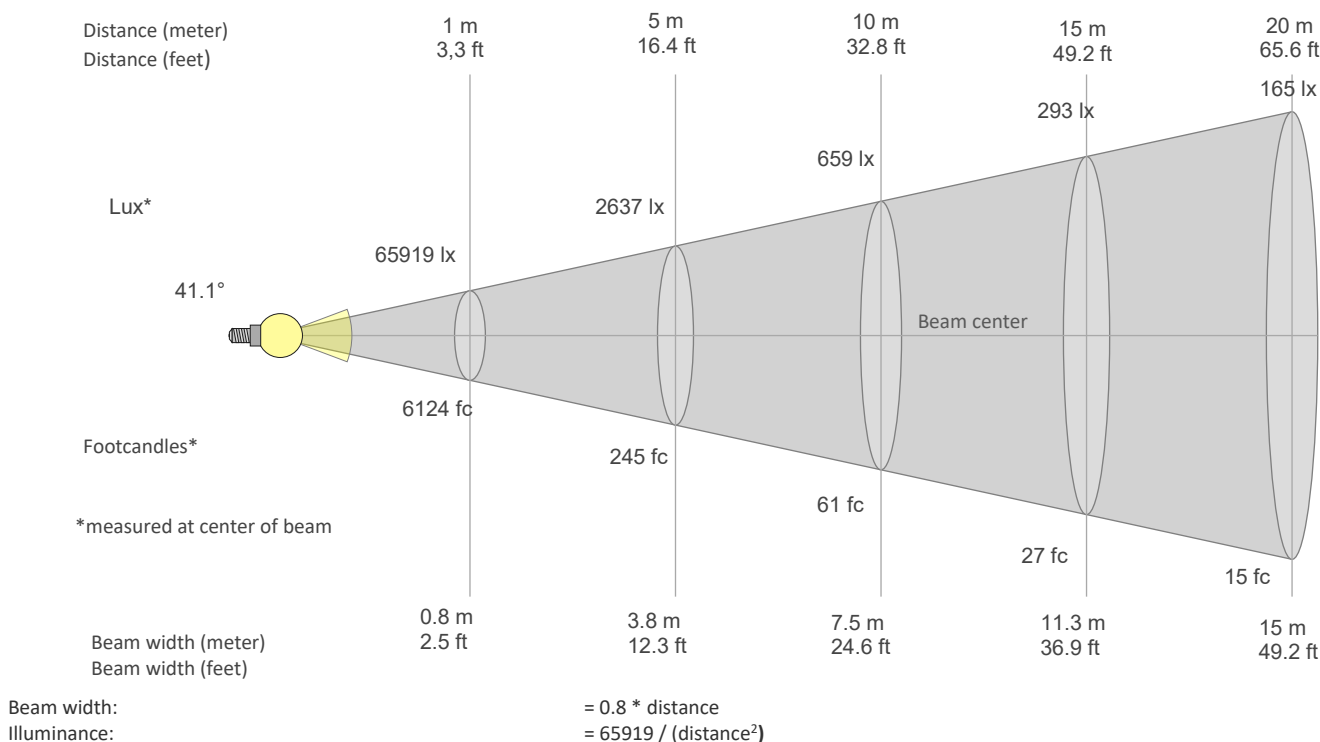
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	89	-5%	-1%
2	91	-2%	5%
3	84	0%	9%
4	85	2%	9%
5	84	7%	7%
6	84	10%	5%
7	86	10%	0%
8	92	3%	-3%
9	93	-2%	-1%
10	86	-5%	7%
11	79	0%	13%
12	85	4%	9%
13	88	8%	4%
14	86	7%	4%
15	84	9%	-10%
16	93	2%	-3%



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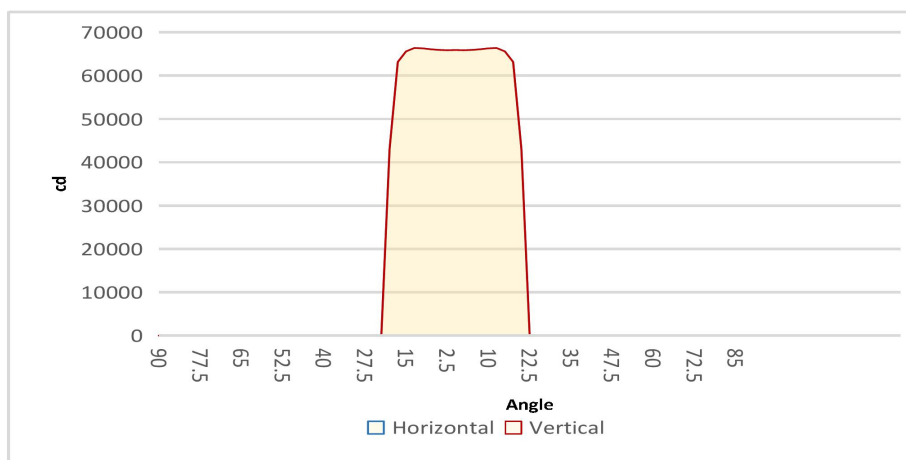
## BEAM DETAILS



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
65919lx	16480lx	7324lx	4120lx	2637lx	1831lx	1345lx	1030lx	814lx	659lx	545lx	458lx	390lx	336lx	293lx	257lx	228lx	203lx	183lx	165lx
6124fc	1531fc	680.4fc	382.8fc	245fc	170.1fc	125fc	95.7fc	75.6fc	61.2fc	50.6fc	42.5fc	36.2fc	31.2fc	27.2fc	23.9fc	21.2fc	18.9fc	17fc	15.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
41.1 °	44.2 °	44.8 °