

# Photometric Report

ERA 800 – Wide

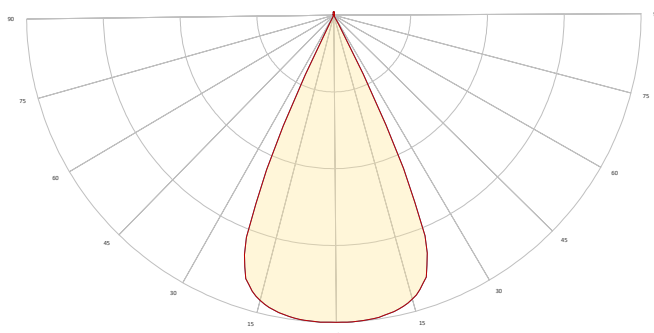
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	35000 lm
Light Engine Output:	70 klm
Efficacy:	62 Lumen/Watt
Lens Option:	N/A
Zoomrange:	6-49°
CRI:	70
CQS:	67
TM-30 Rf:	65
TM-30 Rg:	93
TLCI:	44
Color Temperature:	6900 K



## MEASUREMENT



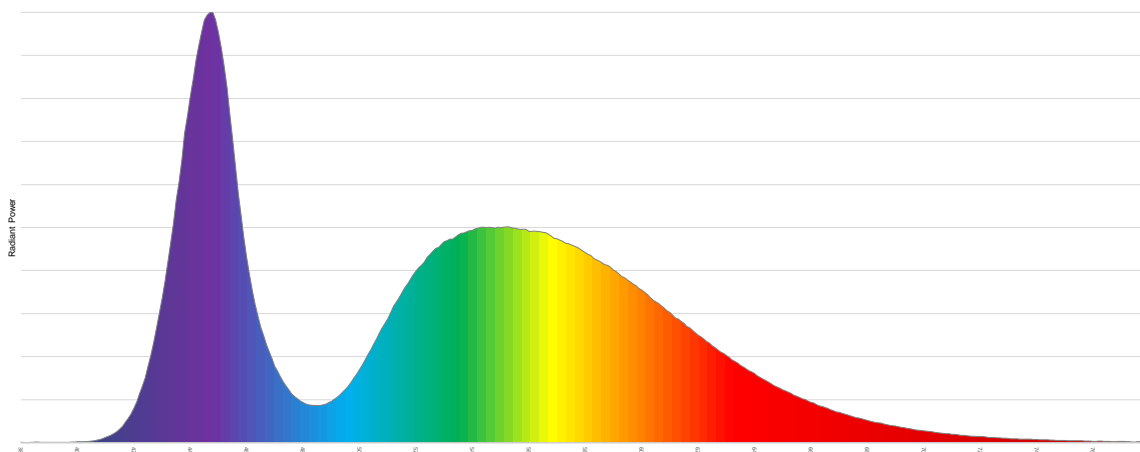
- Vertical - Horizontal

Catalog Number:	9025122052
Measured Output:	33740 lm
Measured Peak:	62289 cd
Consumed Power:	1161.5 W
Efficacy:	63.5 Lm/Watt

Beam Angle (50%):	48.9°
Field Angle (10%):	53.3°
Cutoff Angle (3%):	54.1°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz

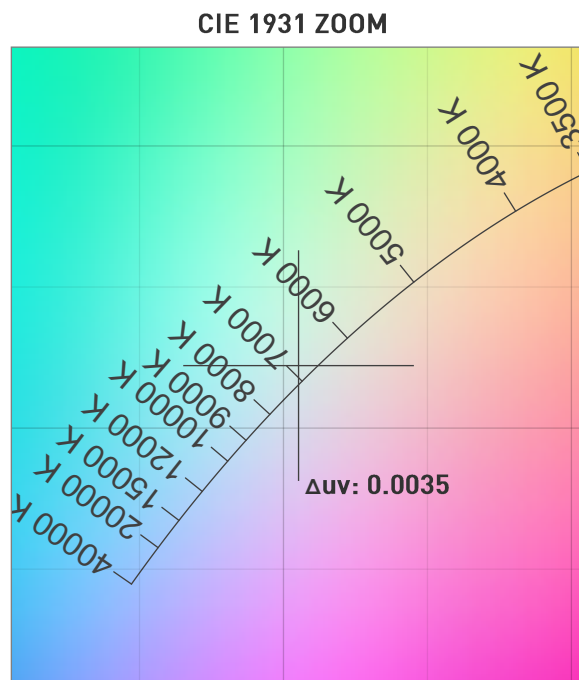
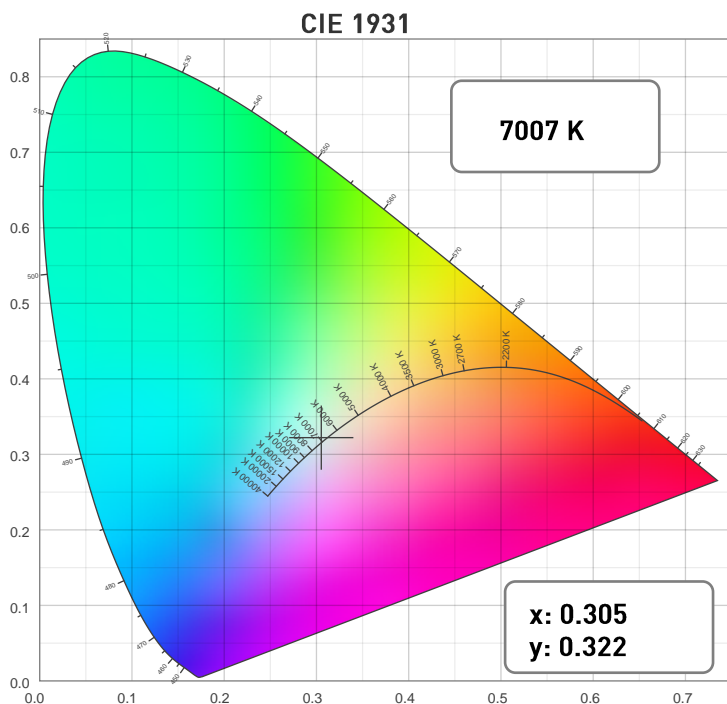
SPECTRAL DISTRIBUTION



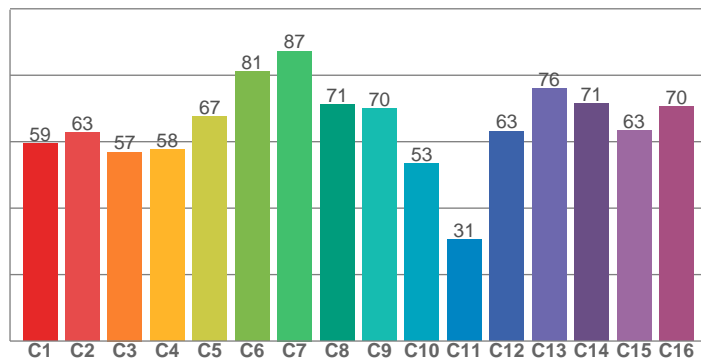
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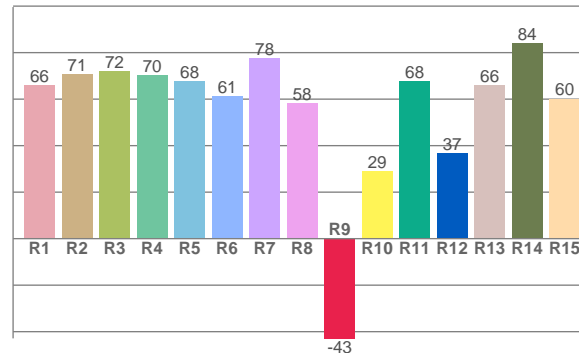
## CHROMATICITY



TM30: 64.9



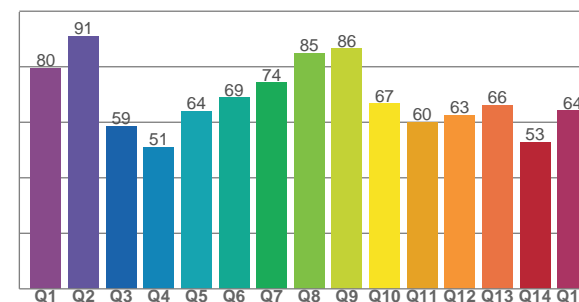
CRI: 68.0 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
7007 K	68.0	-42.9	64.9	92.6

CQS: 66.6



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
44	66.6	0.305	0.322	0.195	0.309	0.0035

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TM30

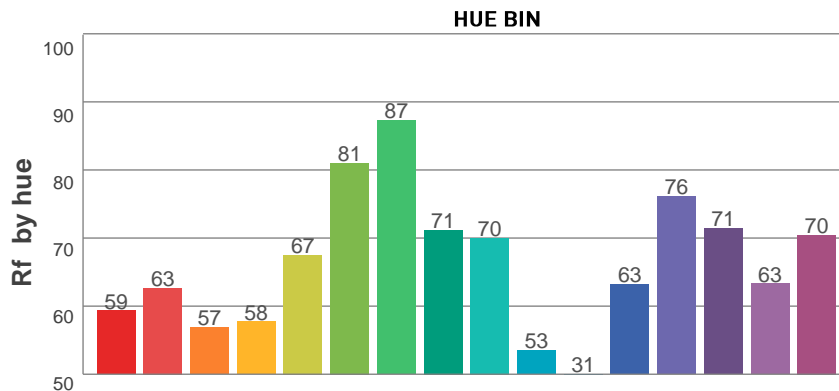
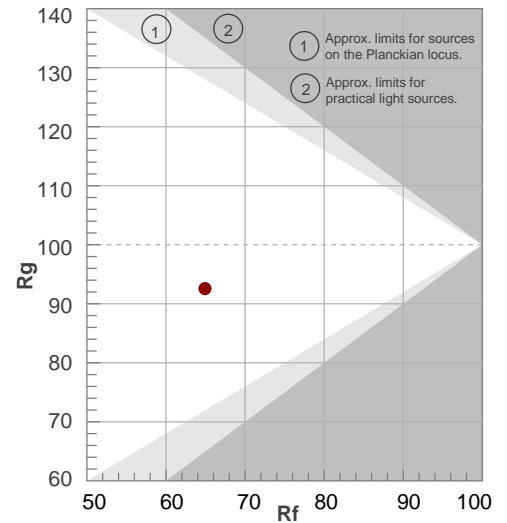
**Rf 64.9**

Fidelity index Rf

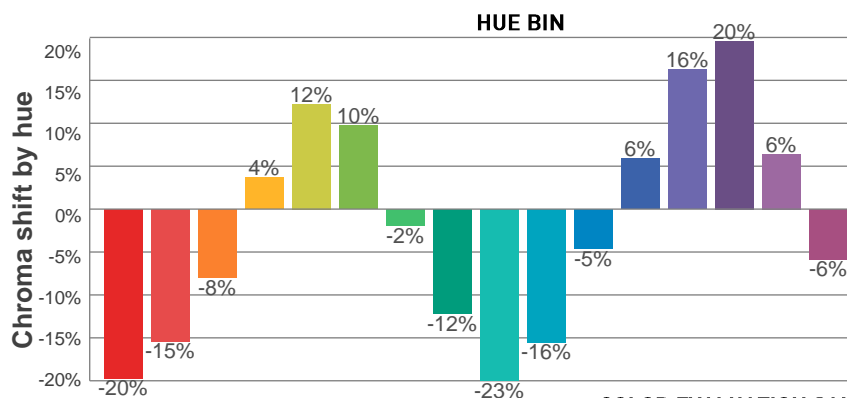
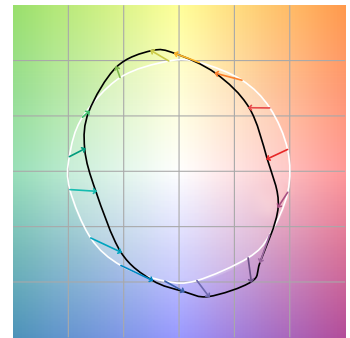
**Rg 92.6**

Gamut index Rg

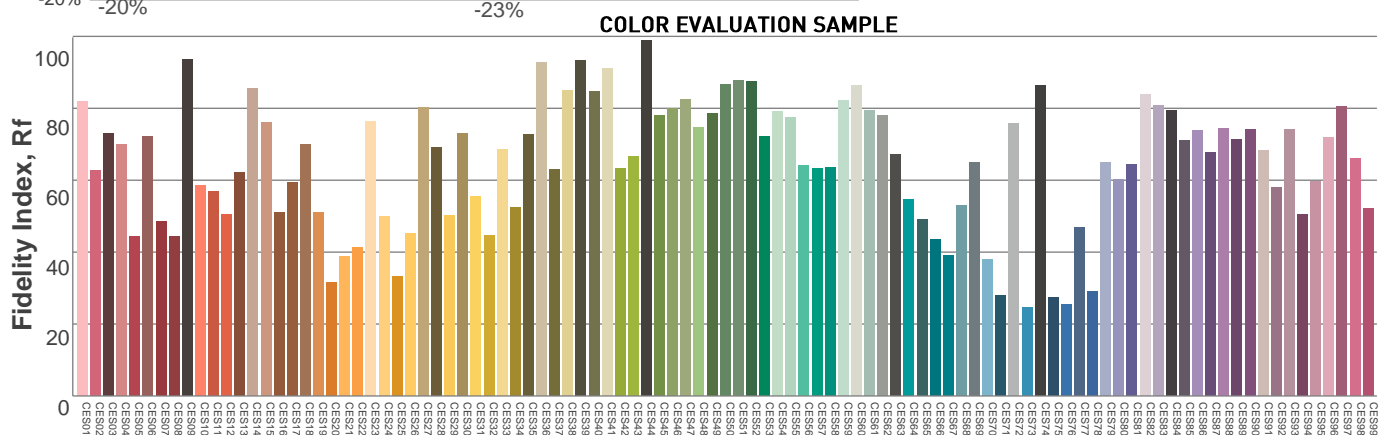
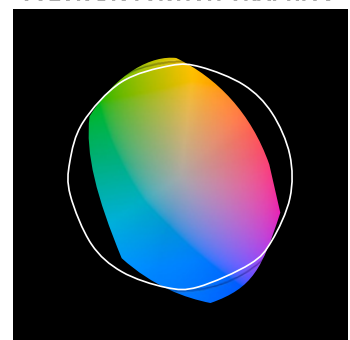
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	59	-20%	-5%
2	63	-15%	11%
3	57	-8%	23%
4	58	4%	23%
5	67	12%	14%
6	81	10%	-2%
7	87	-2%	-8%
8	71	-12%	-10%
9	70	-23%	6%
10	53	-16%	26%
11	31	-5%	31%
12	63	6%	18%
13	76	16%	8%
14	71	20%	-10%
15	63	6%	-25%
16	70	-6%	-15%



COLOR VECTOR GRAPHICS



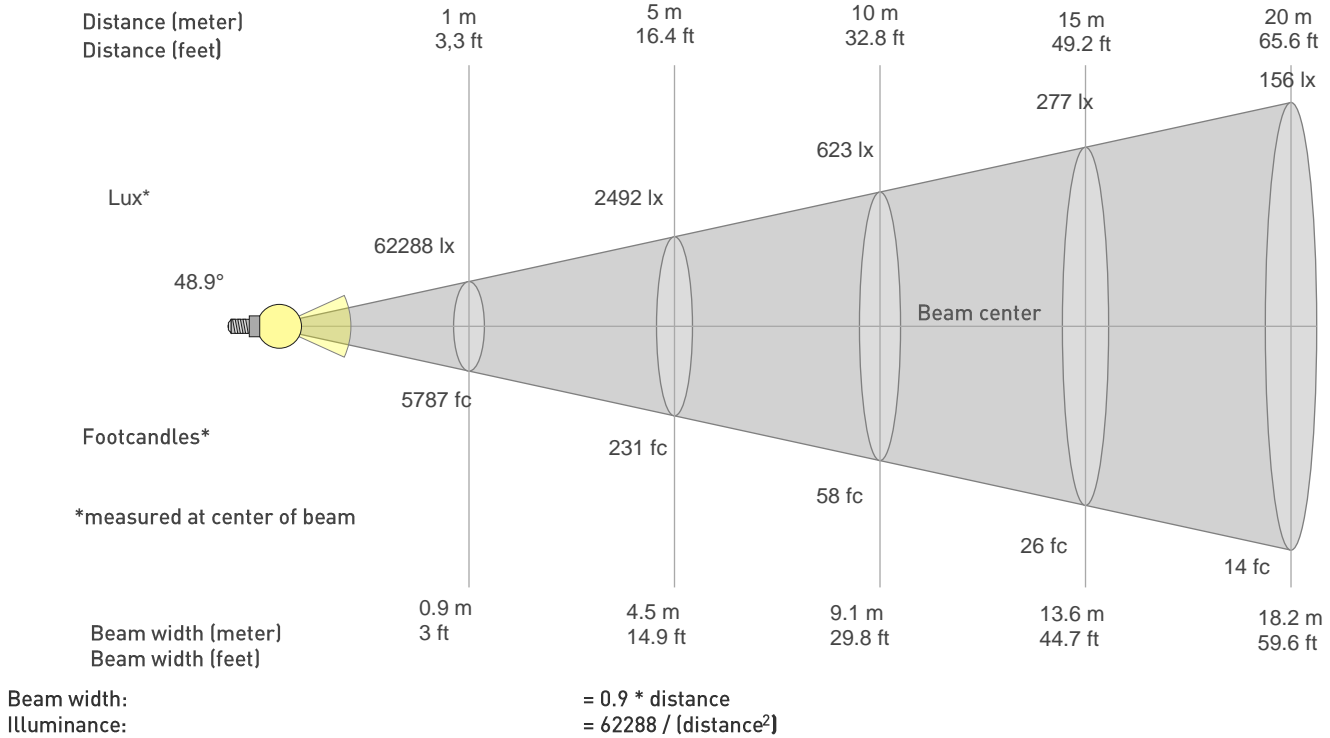
COLOR DISTORTION GRAPHICS



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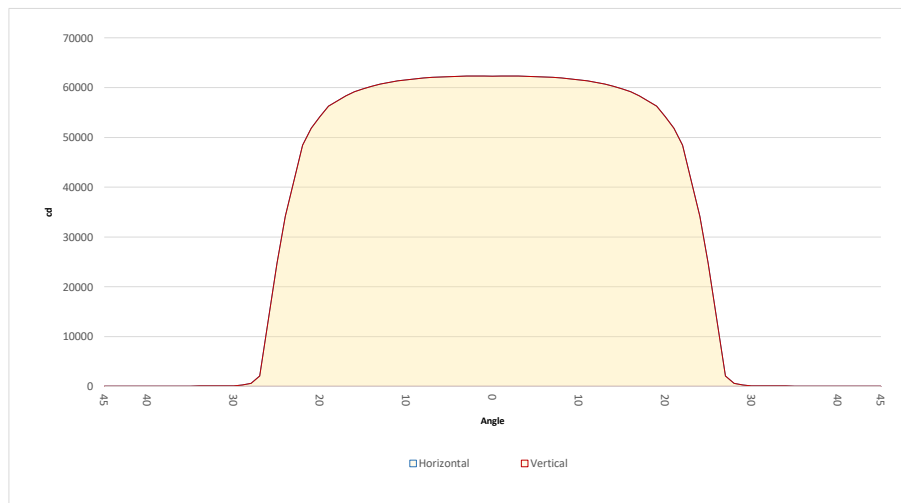
## BEAM DETAILS



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
62288lx	15572lx	6921lx	3893lx	2492lx	1730lx	1271lx	973lx	769lx	623lx	515lx	433lx	369lx	318lx	277lx	243lx	216lx	192lx	173lx	156lx
5786.8fc	1446.7fc	643fc	361.7fc	231.5fc	160.7fc	118.1fc	90.4fc	71.4fc	57.9fc	47.8fc	40.2fc	34.2fc	29.5fc	25.7fc	22.6fc	20fc	17.9fc	16fc	14.5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
48.9°	53.3°	54.1°