

Photometric Report

ERA 400 – Wide

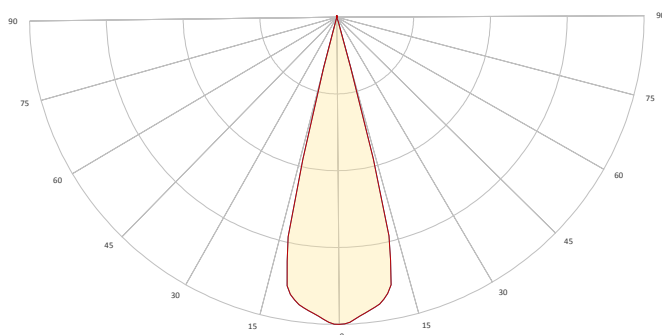
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	10.000 lm
Light Engine Output:	24 klm
Efficacy:	23 Lumen/Watt
Lens Option:	N/A
Zoomrange:	10-30 °
CRI:	72
CQS:	69
TM-30 Rf:	68
TM-30 Rg:	93
TLCI:	47
Color Temperature:	6500 K



MEASUREMENT



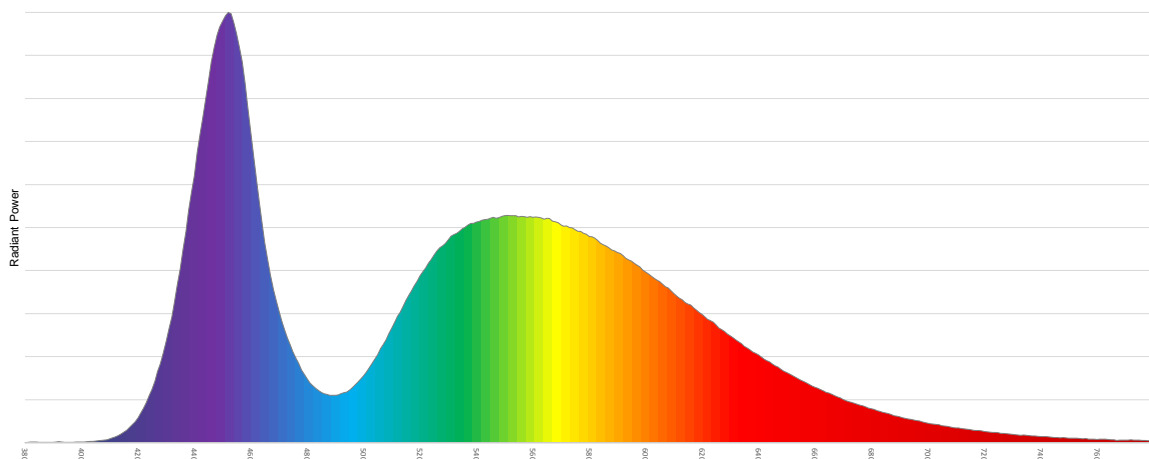
- Vertical - Horizontal

Catalog Number:	9025121796
Measured Output:	10007 lm
Measured Peak:	55144 cd
Consumed Power:	428,4 W
Efficacy:	23,4 Lm/Watt

Beam Angle (50%):	27,8 °
Field Angle (10%):	30,9 °
Cutoff Angle (3%):	31,9 °

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

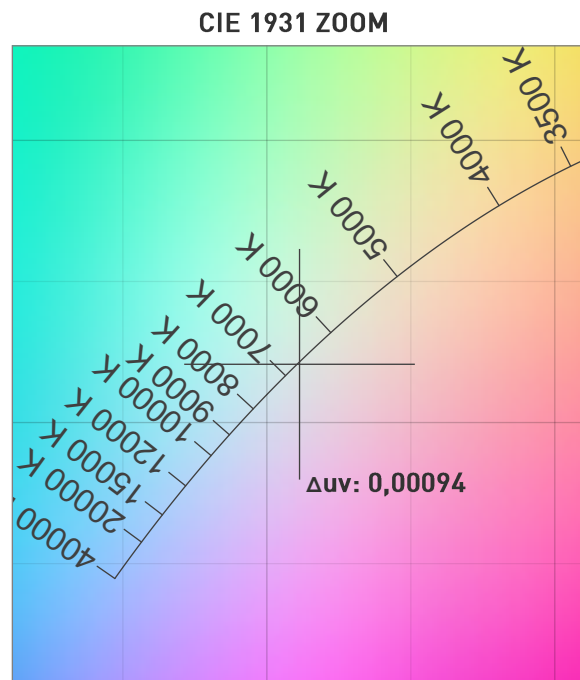
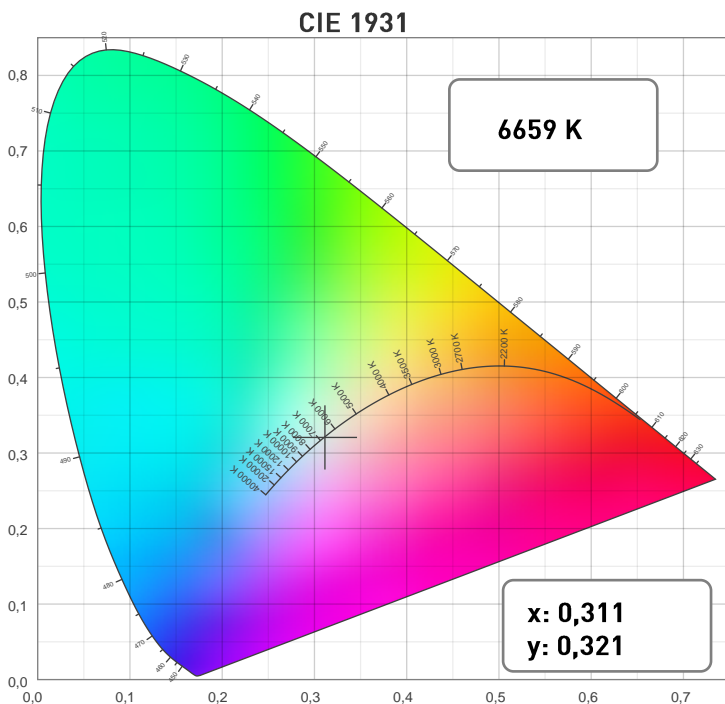
SPECTRAL DISTRIBUTION



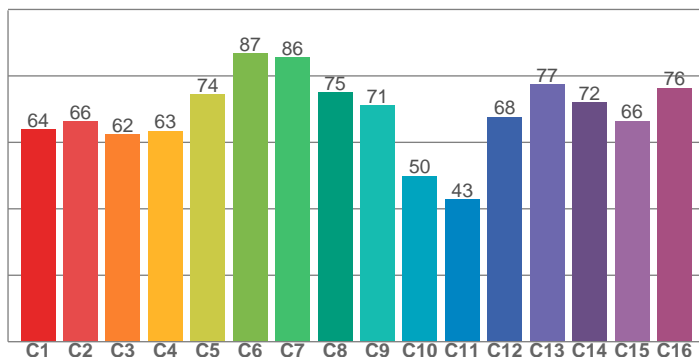
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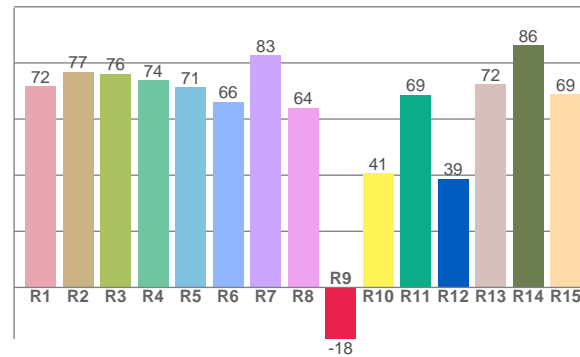
CHROMATICITY



TM30: 68,6



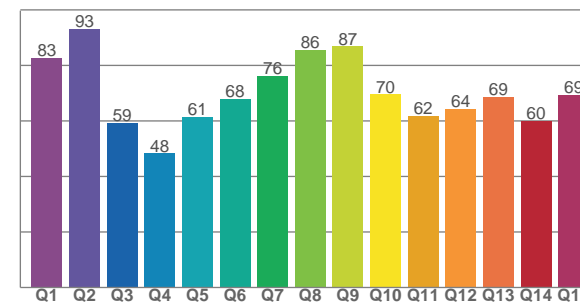
CRI: 72,9 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6659 K	72,9	-18,4	68,6	93,1

CQS: 68,0



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
47	68,0	0,311	0,321	0,200	0,309	0,00094

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TM30

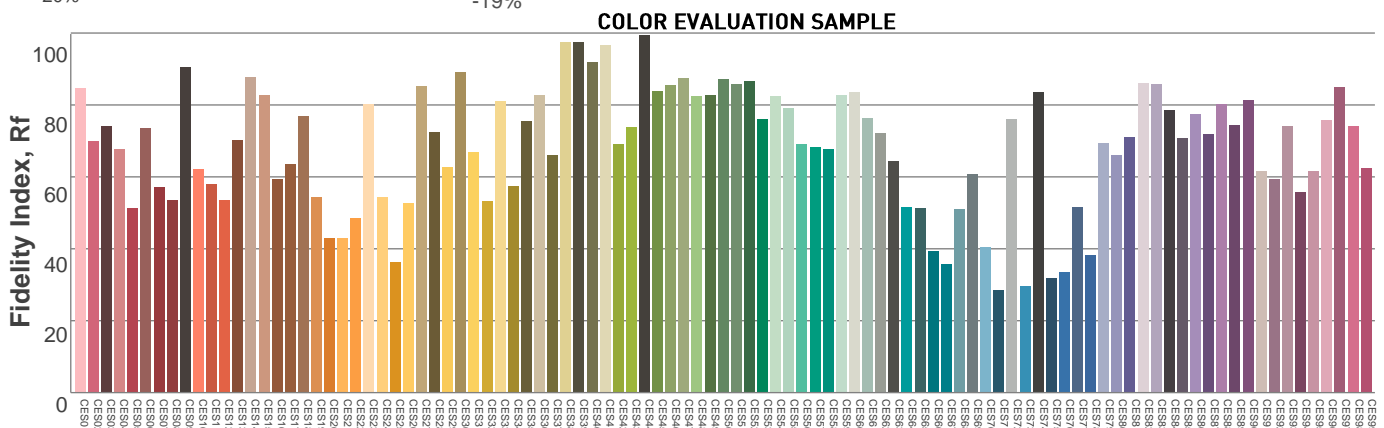
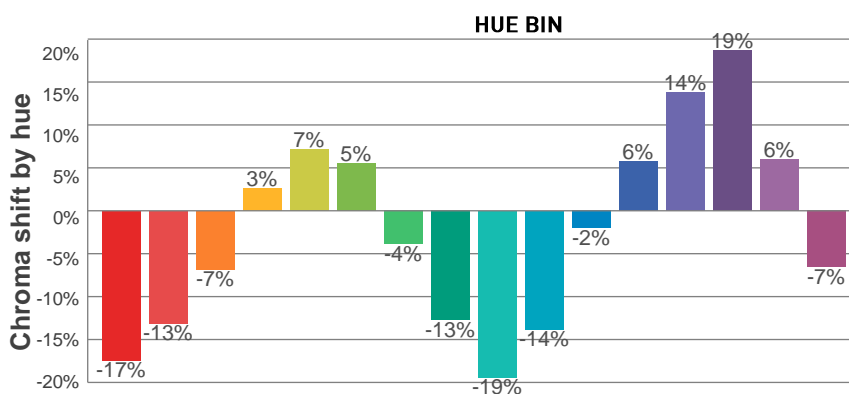
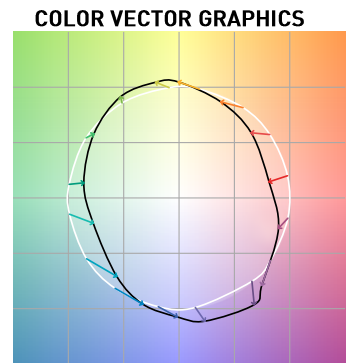
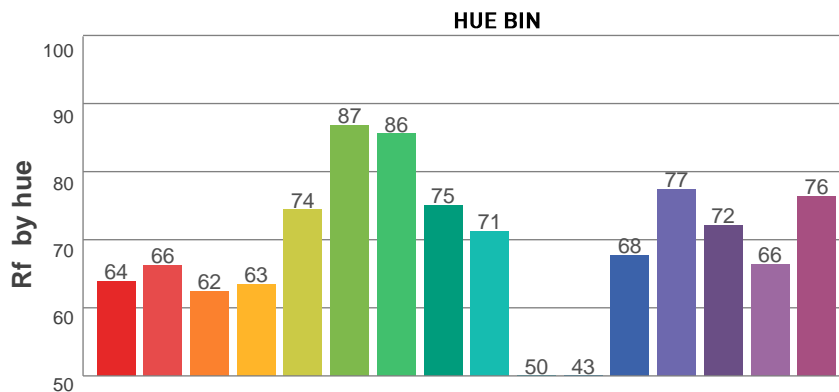
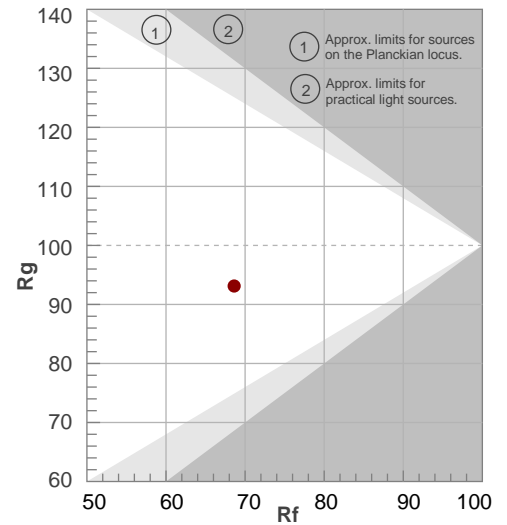
Rf 68,6

Fidelity index Rf

Rg 93,1

Gamut index Rg

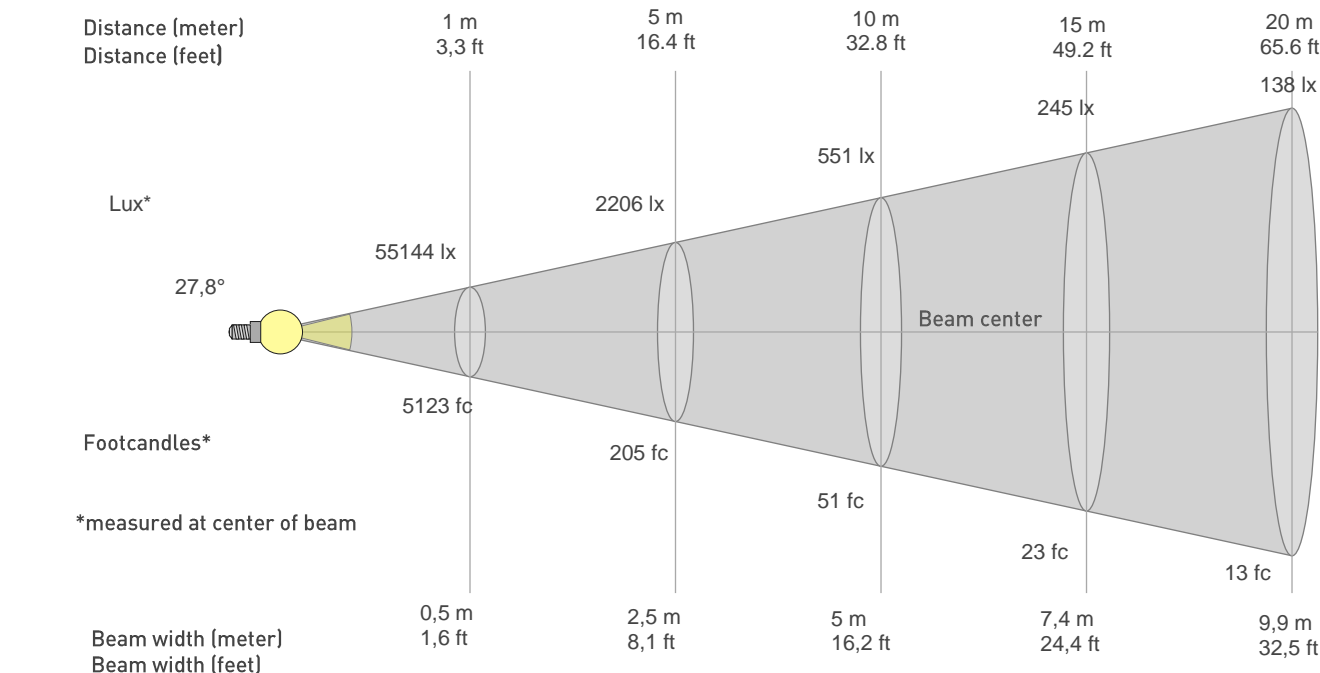
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	64	-17%	-2%
2	66	-13%	11%
3	62	-7%	20%
4	63	3%	20%
5	74	7%	11%
6	87	5%	-2%
7	86	-4%	-7%
8	75	-13%	-4%
9	71	-19%	12%
10	50	-14%	28%
11	43	-2%	29%
12	68	6%	19%
13	77	14%	6%
14	72	19%	-10%
15	66	6%	-23%
16	76	-7%	-11%



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BEAM DETAILS

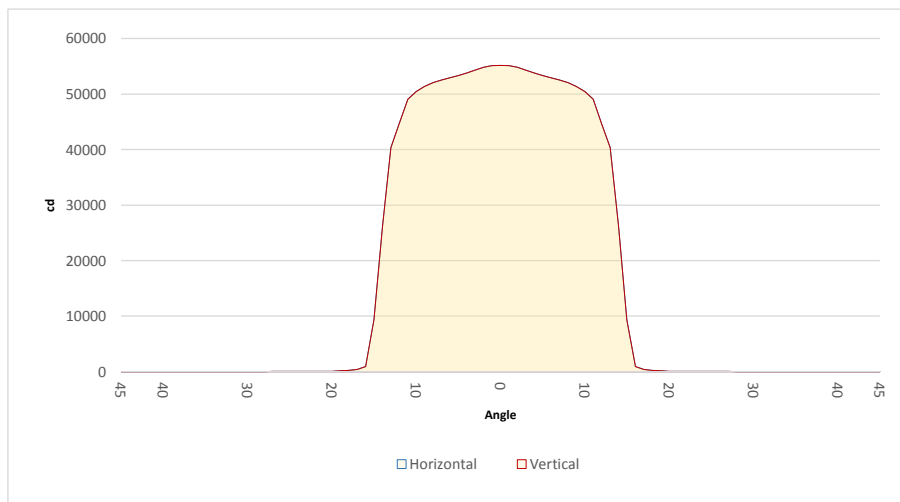


Beam width: = 0,5 * distance
 Illuminance: = 55144 / (distance²)

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
55144lx	13786lx	6127lx	3446lx	2206lx	1532lx	1125lx	862lx	681lx	551lx	456lx	383lx	326lx	281lx	245lx	215lx	191lx	170lx	153lx	138lx
5123fc	1280,8fc	569,2fc	320,2fc	204,9fc	142,3fc	104,6fc	80fc	63,2fc	51,2fc	42,3fc	35,6fc	30,3fc	26,1fc	22,8fc	20fc	17,7fc	15,8fc	14,2fc	12,8fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
27,8°	30,9°	31,9°