

Photometric Report

ERA 150 – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

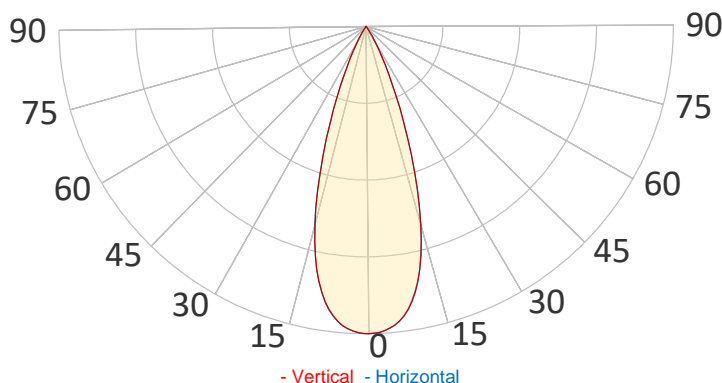
GENERAL SPECIFICATIONS

Total Fixture Output:	3700 lm
Light Engine Output:	7000 lm
Efficacy:	15 lm/W
Lens Option:	N/A
Beam Angle (50%):	4,3-36,0°
Field Angle (10%):	5,3-55,2°
Cut-off Angle (3%):	5,9-66,2°
CRI:	70+
CQS:	83
TM-30 Rf:	77
TM-30 Rg:	117
TLCI:	56
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

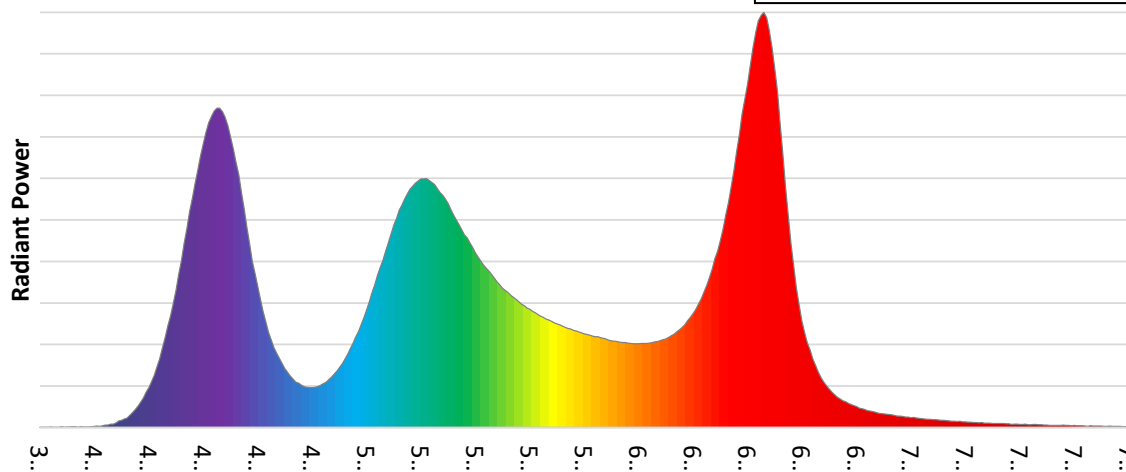


Catalog Number:	MAR-90290000
Measured Output:	3631 lm
Measured Peak:	10042 cd
Consumed Power:	235 W
Efficacy:	15,5 lm/W

Beam Angle (50%):	36°
Field Angle (10%):	55,2°
Cut-off Angle (3%):	66,2°

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

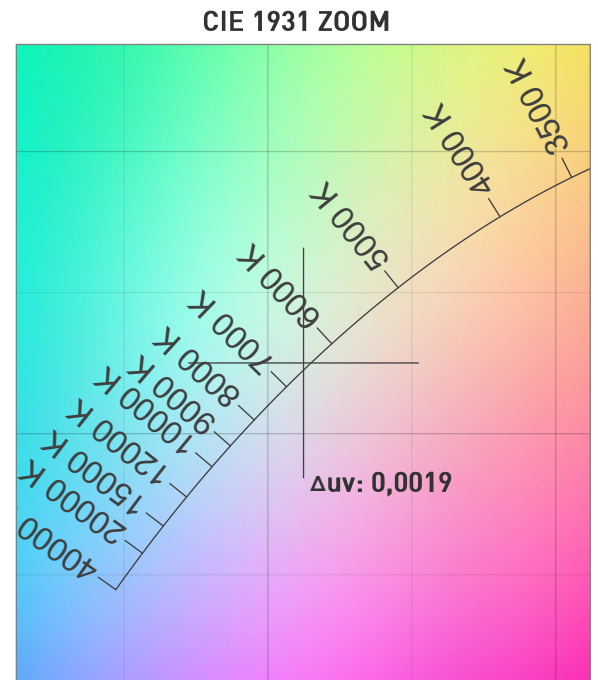
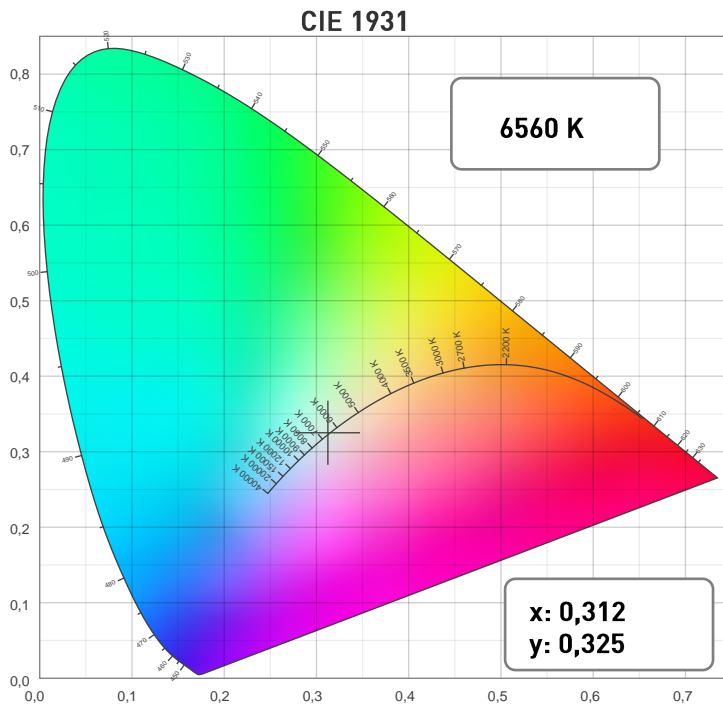
SPECTRAL DISTRIBUTION



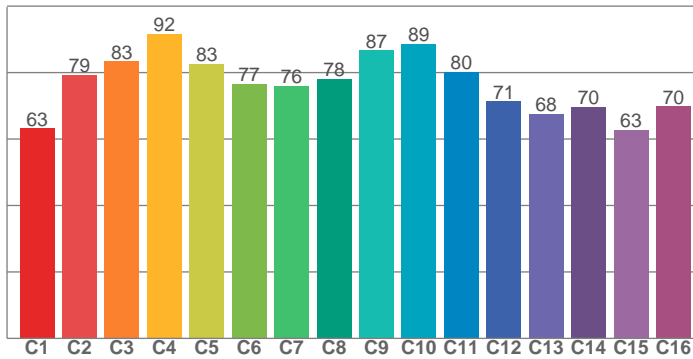
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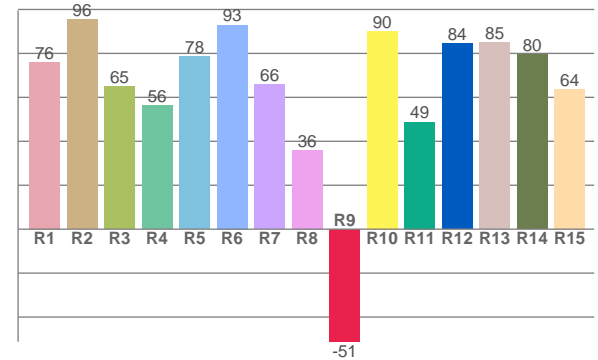
CHROMATICITY



TM30: 77,8



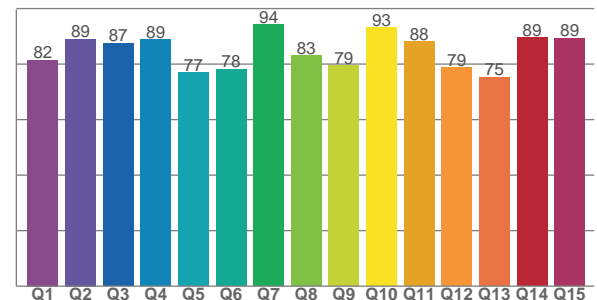
CRI: 70,8 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6560 K	70,8	-51,2	77,8	117,6

CQS: 83,7



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
56	83,7	0,312	0,325	0,199	0,311	0,0019

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TM30

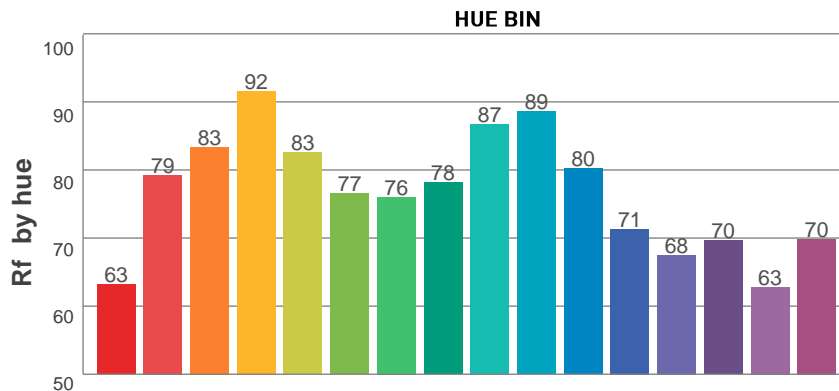
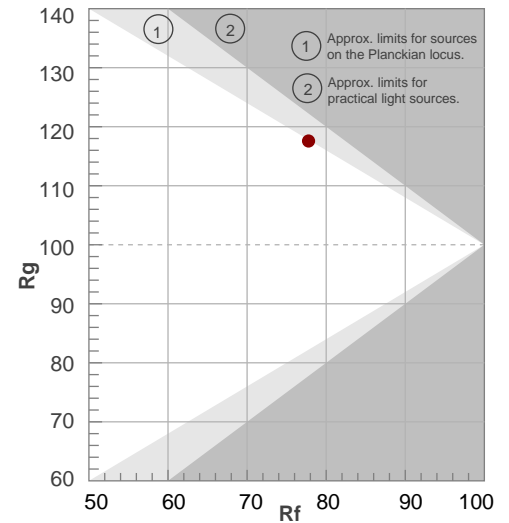
Rf 77,8

Fidelity index Rf

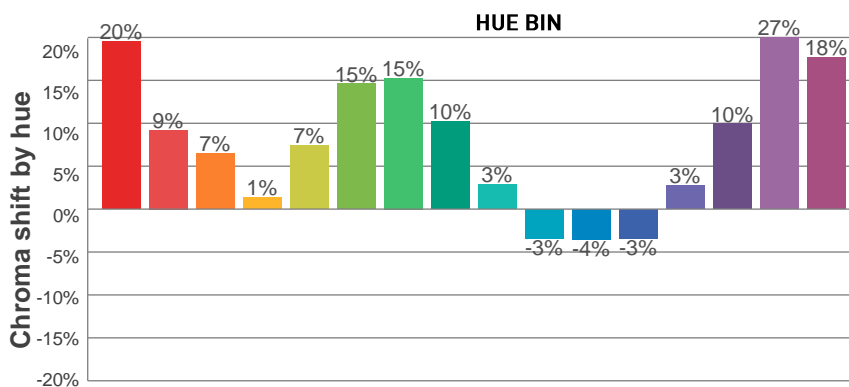
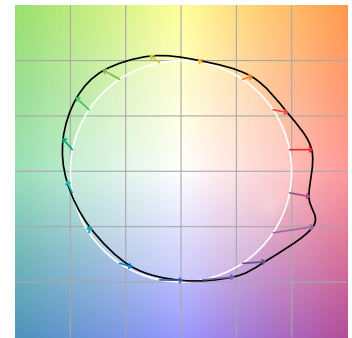
Rg 117,6

Gamut index Rg

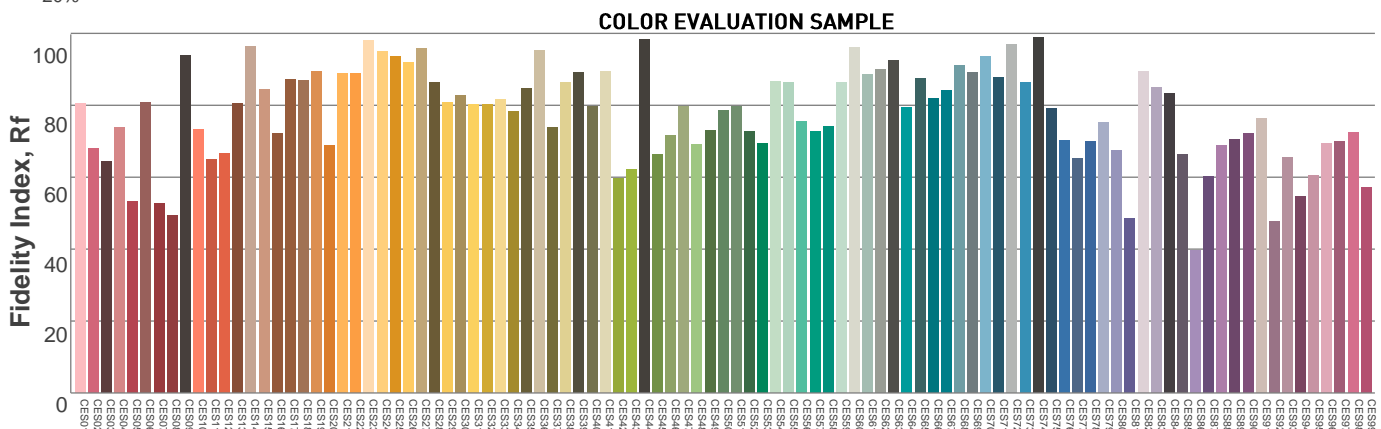
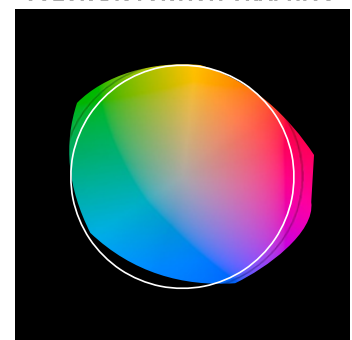
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	63	20%	-4%
2	79	9%	-9%
3	83	7%	-5%
4	92	1%	4%
5	83	7%	7%
6	77	15%	8%
7	76	15%	-3%
8	78	10%	-8%
9	87	3%	-11%
10	89	-3%	-4%
11	80	-4%	11%
12	71	-3%	20%
13	68	3%	28%
14	70	10%	17%
15	63	27%	25%
16	70	18%	0%



COLOR VECTOR GRAPHICS



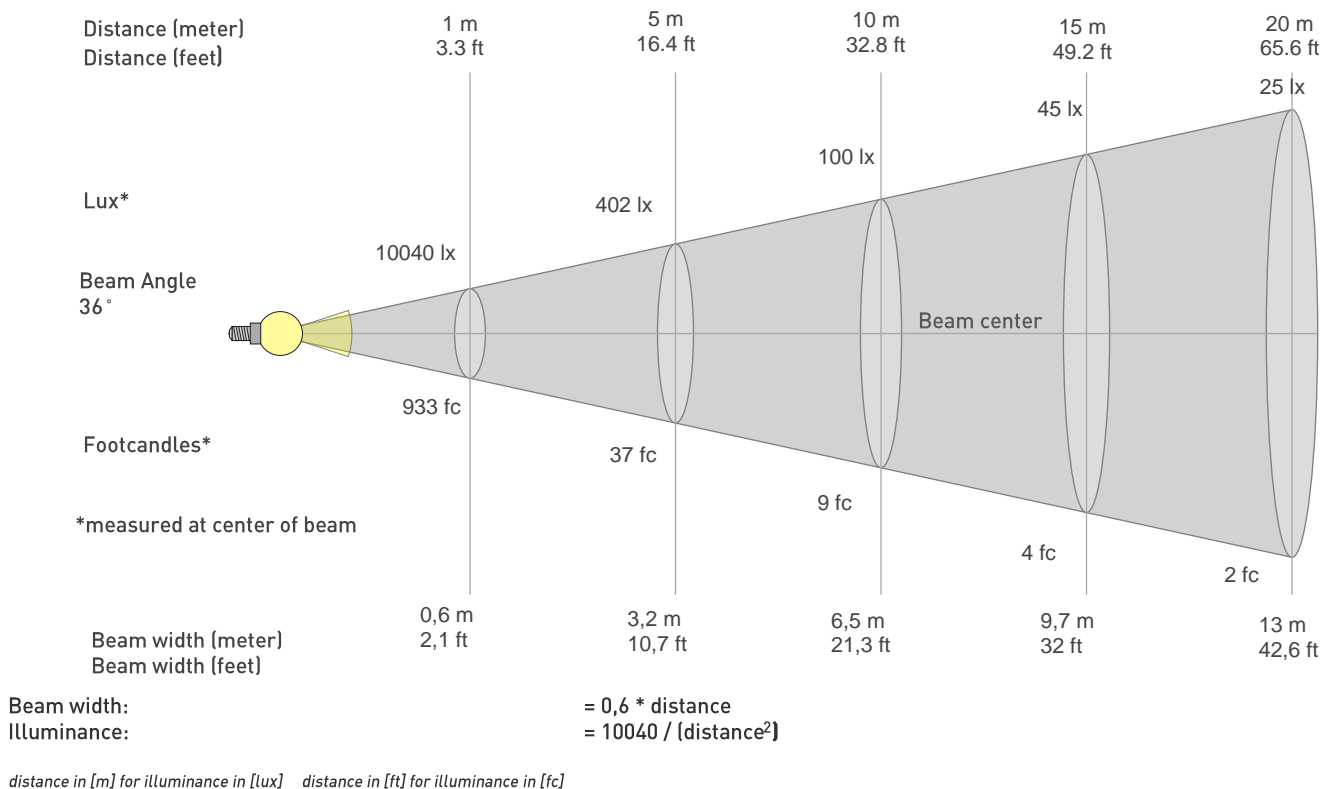
COLOR DISTORTION GRAPHICS



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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
10040lx	2510lx	1116lx	627lx	402lx	279lx	205lx	157lx	124lx	100lx	83lx	70lx	59lx	51lx	45lx	39lx	35lx	31lx	28lx	25lx
932,7fc	233,2fc	103,6fc	58,3fc	37,3fc	25,9fc	19fc	14,6fc	11,5fc	9,3fc	7,7fc	6,5fc	5,5fc	4,8fc	4,1fc	3,6fc	3,2fc	2,9fc	2,6fc	2,3fc

