

# Photometric Report

ERA 150 – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

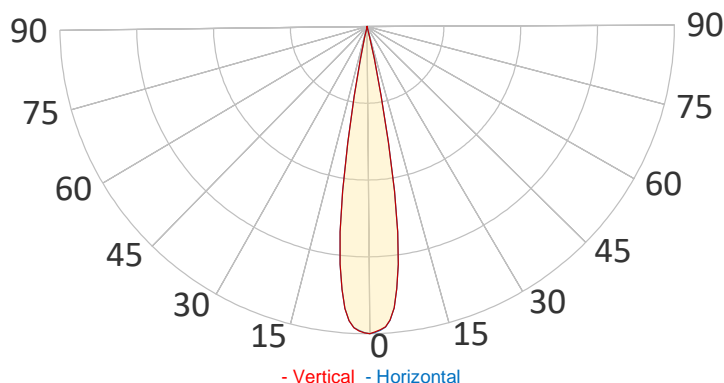
## GENERAL SPECIFICATIONS

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

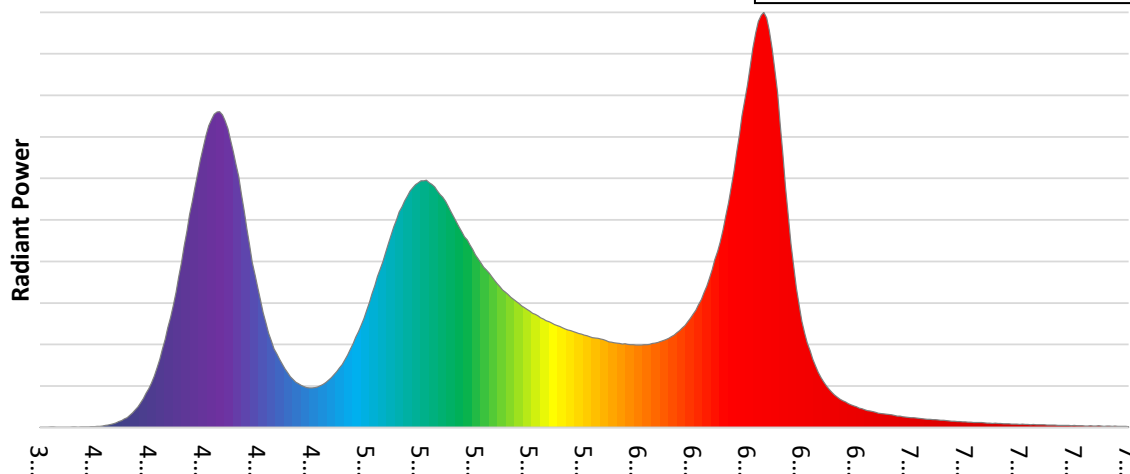


## SAMPLE MEASUREMENT

POLAR PLOT



SPECTRAL DISTRIBUTION



Catalog Number:	MAR-90290000
Measured Output:	2899 lm
Measured Peak:	34694 cd
Consumed Power:	235 W
Efficacy:	12,3 lm/W

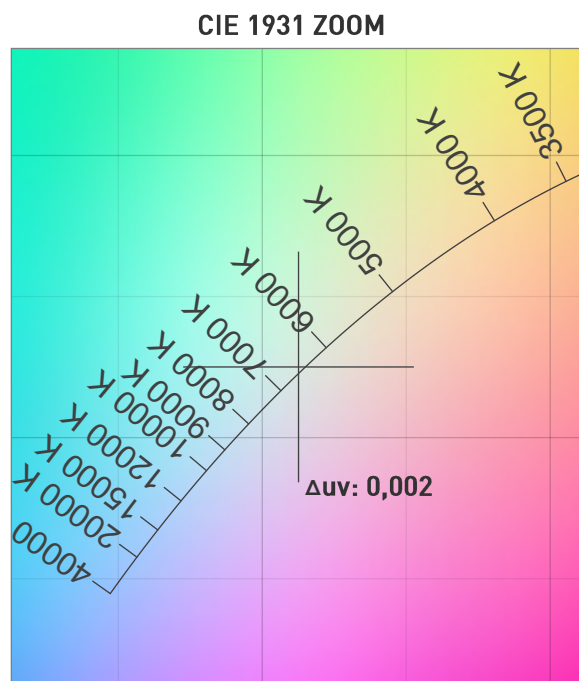
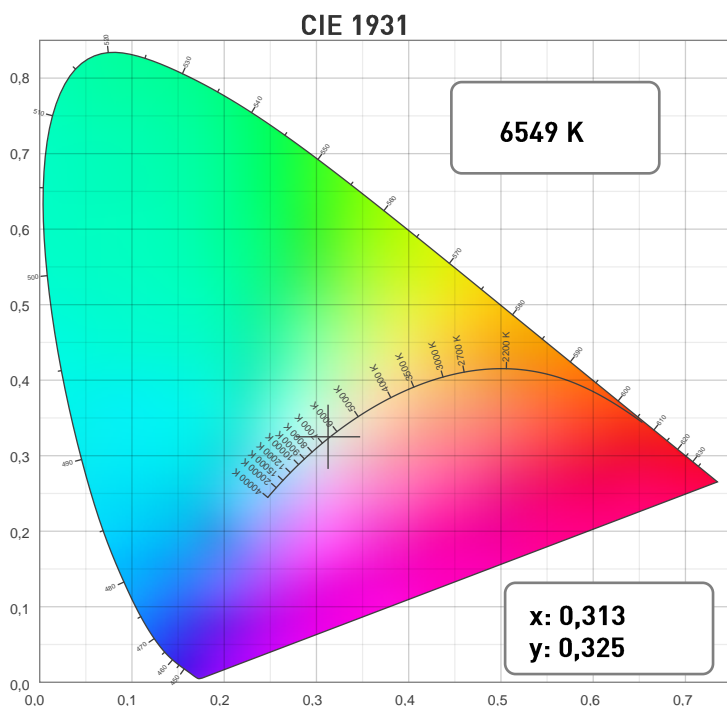
Beam Angle (50%):	18,5°
Field Angle (10%):	24,2°
Cut-off Angle (3%):	26,5°

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

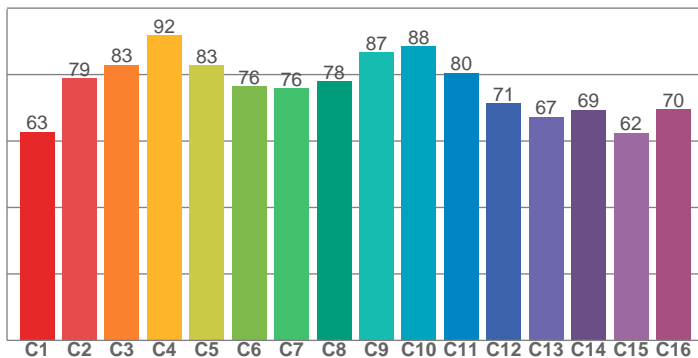
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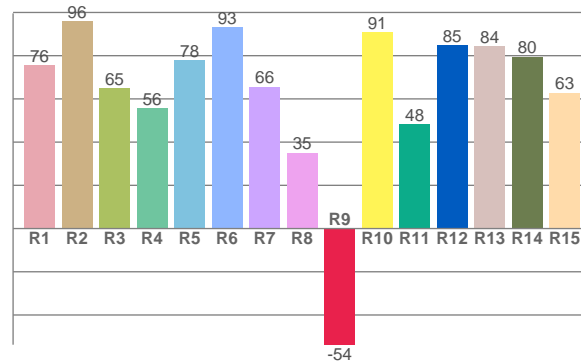
## CHROMATICITY



TM30: 77,6



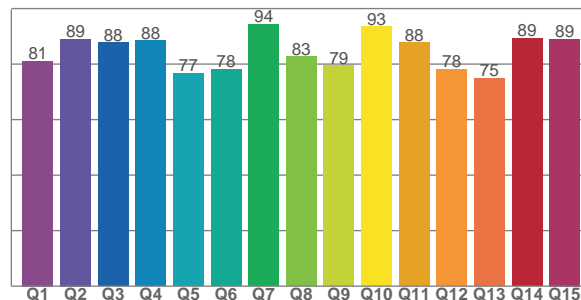
CRI: 70,5 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6549 K	70,5	-53,8	77,6	117,8

CQS: 83,5



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	$\Delta uv$
56	83,5	0,313	0,325	0,199	0,311	0,002

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TM30

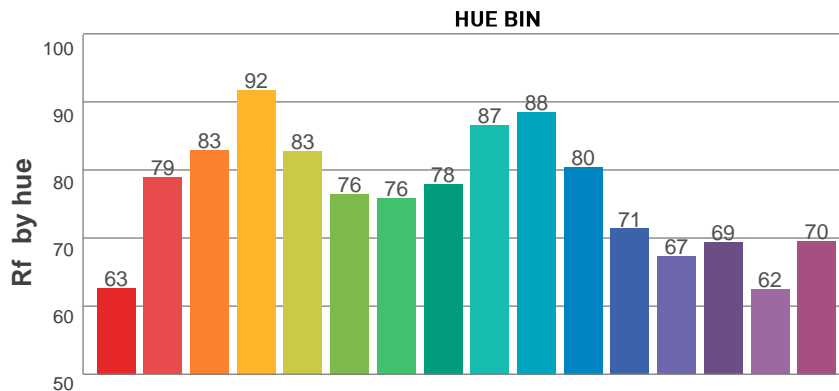
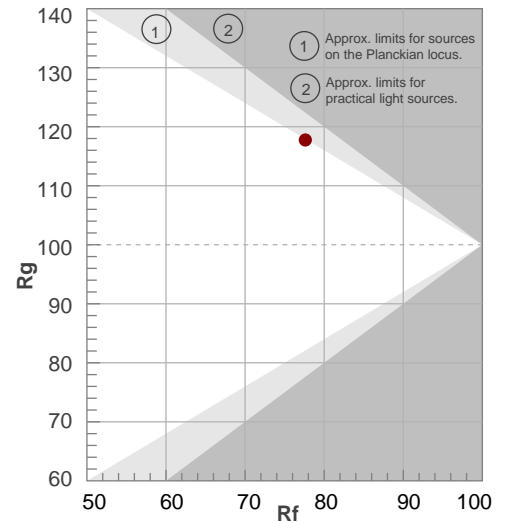
Rf 77,6

Fidelity index Rf

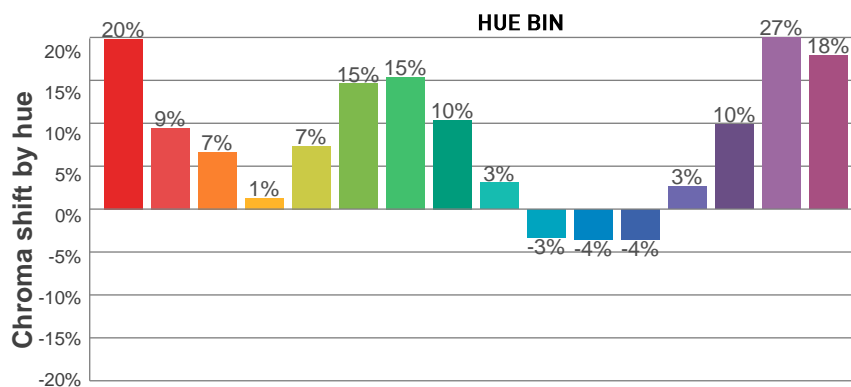
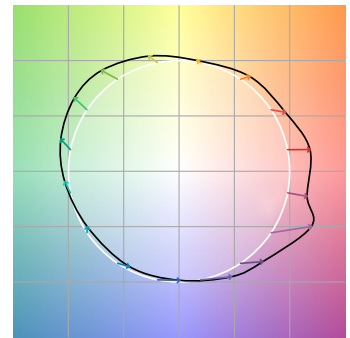
Rg 117,8

Gamut index Rg

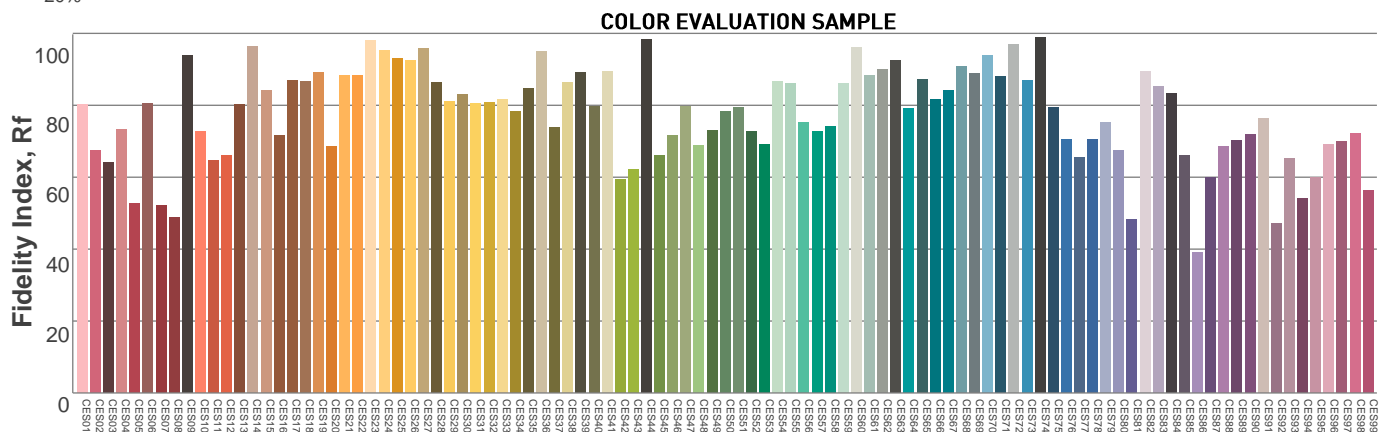
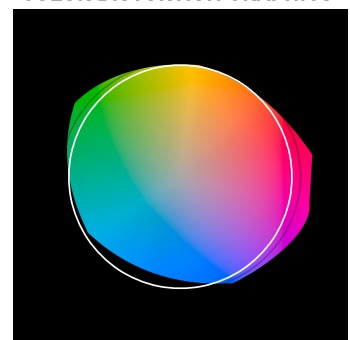
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	63	20%	-4%
2	79	9%	-9%
3	83	7%	-6%
4	92	1%	3%
5	83	7%	7%
6	76	15%	8%
7	76	15%	-2%
8	78	10%	-8%
9	87	3%	-11%
10	88	-3%	-4%
11	80	-4%	10%
12	71	-4%	20%
13	67	3%	28%
14	69	10%	18%
15	62	27%	25%
16	70	18%	0%



COLOR VECTOR GRAPHICS



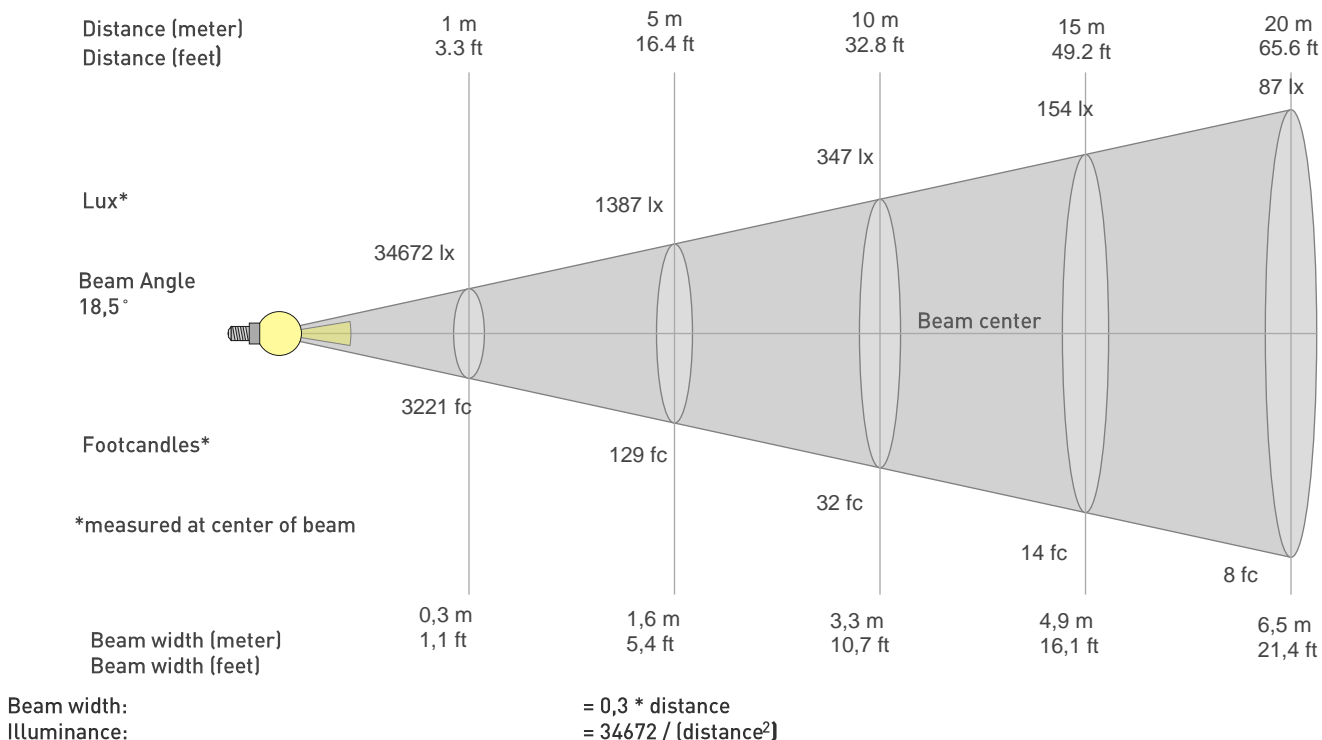
COLOR DISTORTION GRAPHICS



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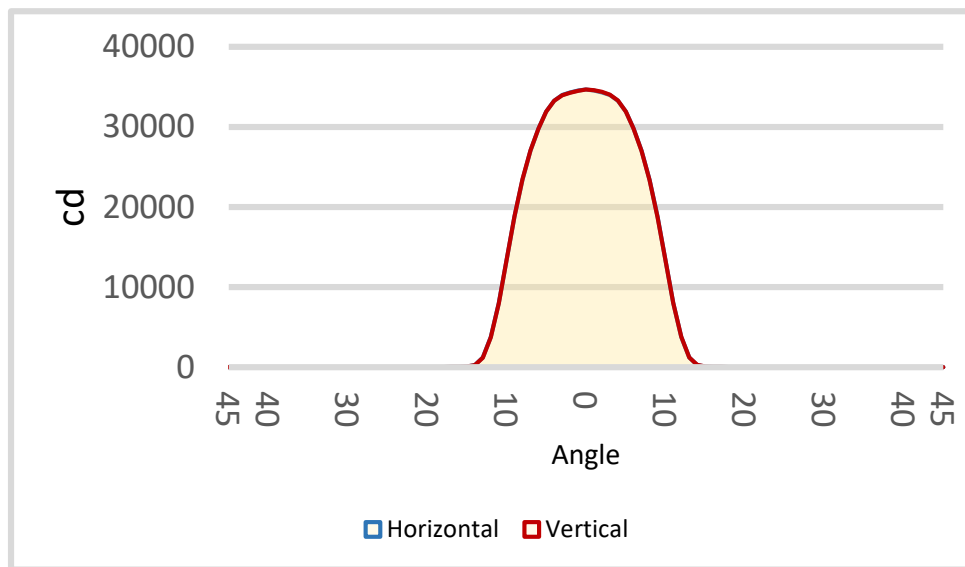
## BEAM DETAILS



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
34672lx	8668lx	3852lx	2167lx	1387lx	963lx	708lx	542lx	428lx	347lx	287lx	241lx	205lx	177lx	154lx	135lx	120lx	107lx	96lx	87lx
3221,1fc	805,3fc	357,9fc	201,3fc	128,8fc	89,5fc	65,7fc	50,3fc	39,8fc	32,2fc	26,6fc	22,4fc	19,1fc	16,4fc	14,3fc	12,6fc	11,1fc	9,9fc	8,9fc	8,1fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
18,5°	24,2°	26,5°