

# Photometric Report

ELP PAR – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

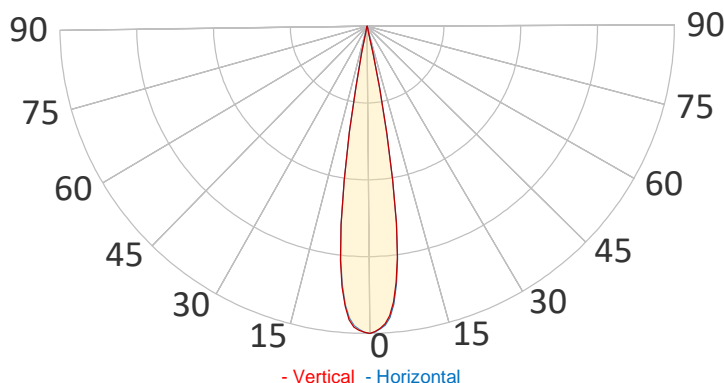
## GENERAL SPECIFICATIONS

Total Fixture Output:	3500 lm
Light Engine Output:	7000 lm
Efficacy:	15 lm/W
Lens Option:	N/A
Beam Angle (50%):	4,2-38,7°
Field Angle (10%):	5,1-58,6°
Cut-off Angle (3%):	5,7-69,6°
CRI:	70+
CQS:	83
TM-30 Rf:	77
TM-30 Rg:	117
TLCI:	61
Color Temperature:	6500 K



## SAMPLE MEASUREMENT

POLAR PLOT

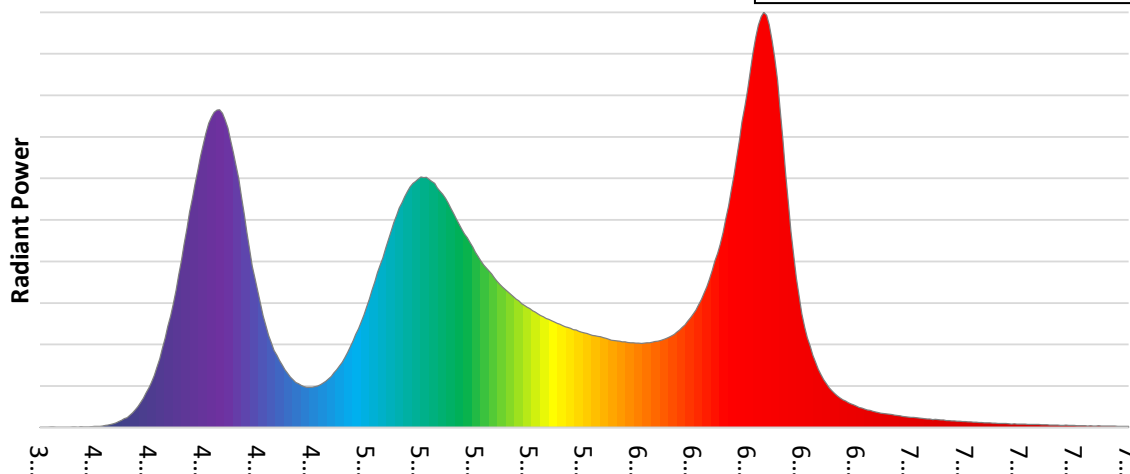


Catalog Number:	MAR-90800000
Measured Output:	2793 lm
Measured Peak:	34808 cd
Consumed Power:	237 W
Efficacy:	11,8 lm/W

Beam Angle (50%):	18,1°
Field Angle (10%):	23,7°
Cut-off Angle (3%):	26°

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

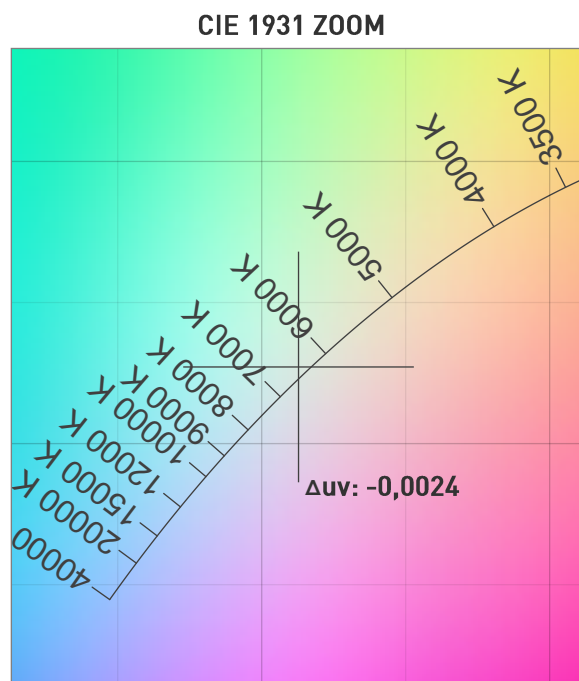
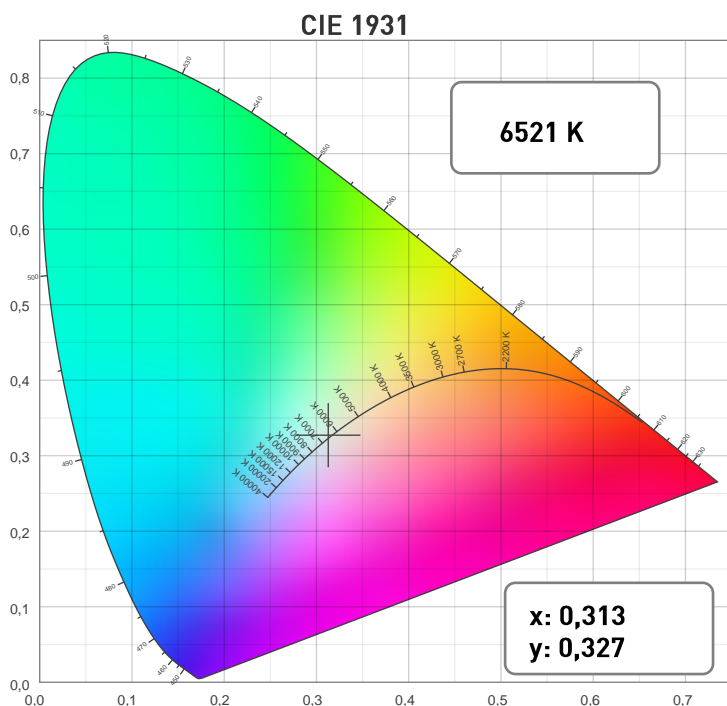
SPECTRAL DISTRIBUTION



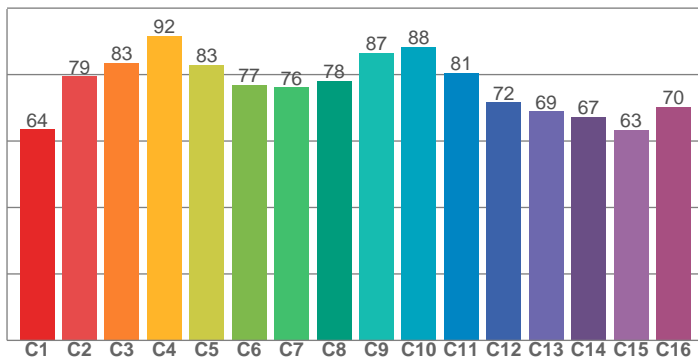
# Photometric Report

ELP PAR – Medium

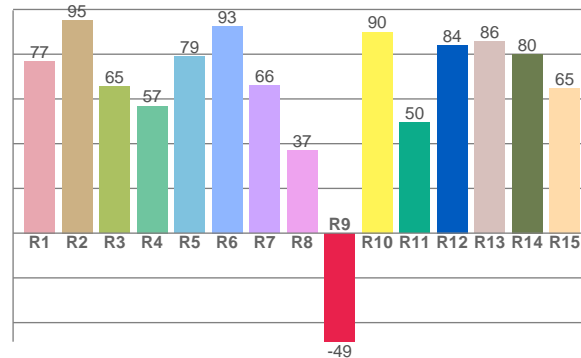
## CHROMATICITY



TM30: 78,0



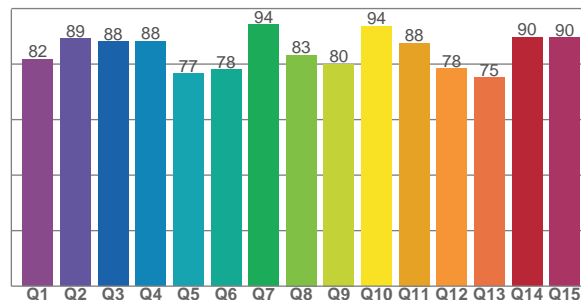
CRI: 71,2 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6521 K	71,2	-48,5	78,0	117,4

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	$\Delta uv$
61	83,7	0,313	0,327	0,199	0,312	-0,0024

# Photometric Report

ELP PAR – Medium

TM30

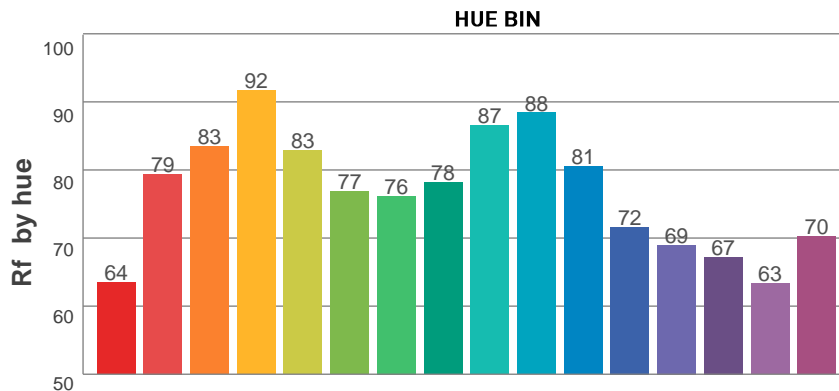
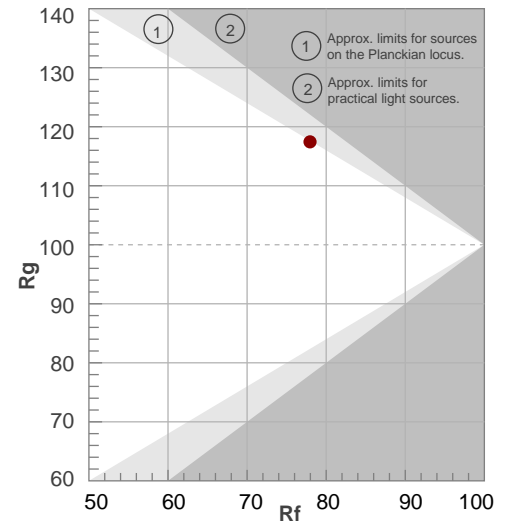
Rf 78,0

Fidelity index Rf

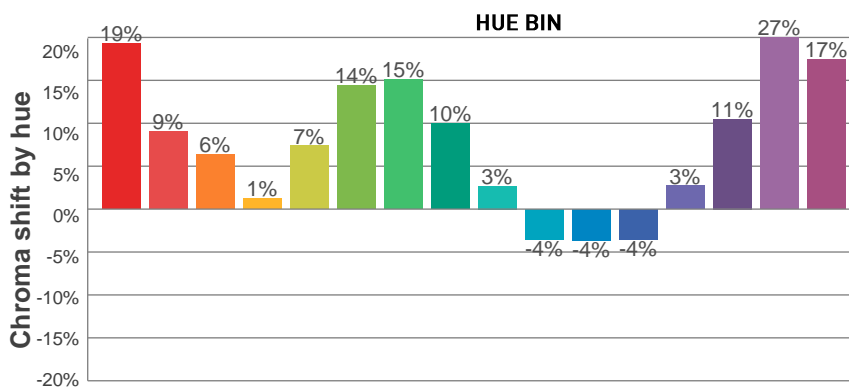
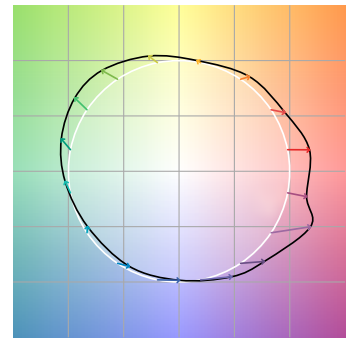
Rg 117,4

Gamut index Rg

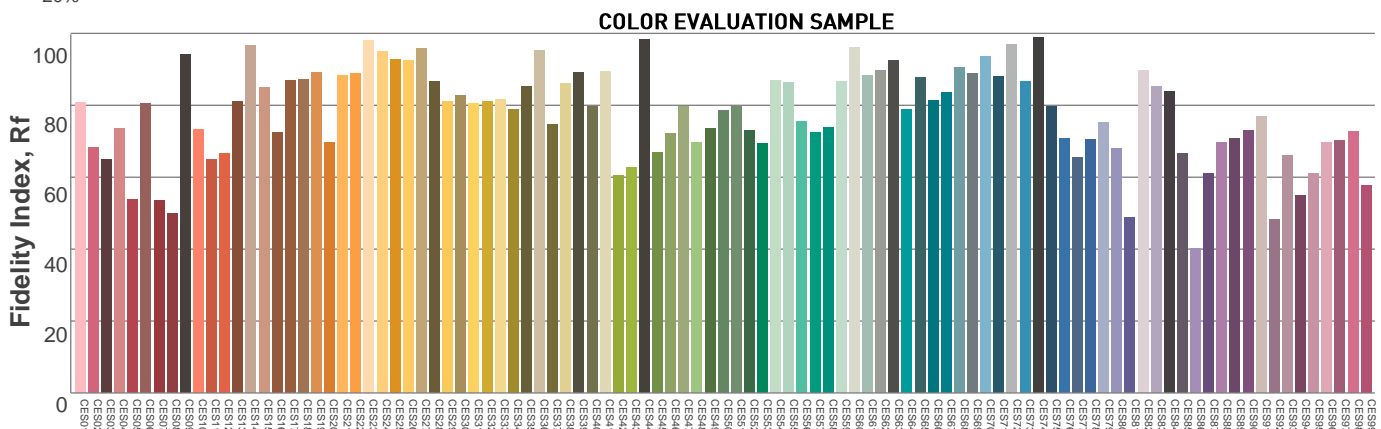
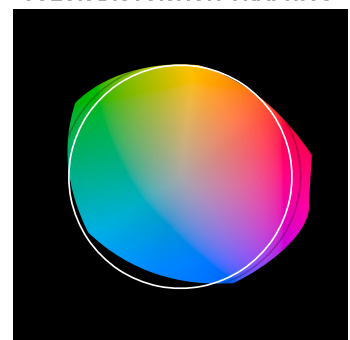
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	64	19%	-4%
2	79	9%	-9%
3	83	6%	-5%
4	92	1%	3%
5	83	7%	7%
6	77	14%	7%
7	76	15%	-3%
8	78	10%	-8%
9	87	3%	-11%
10	88	-4%	-4%
11	81	-4%	10%
12	72	-4%	20%
13	69	3%	28%
14	67	11%	19%
15	63	27%	24%
16	70	17%	0%



COLOR VECTOR GRAPHICS



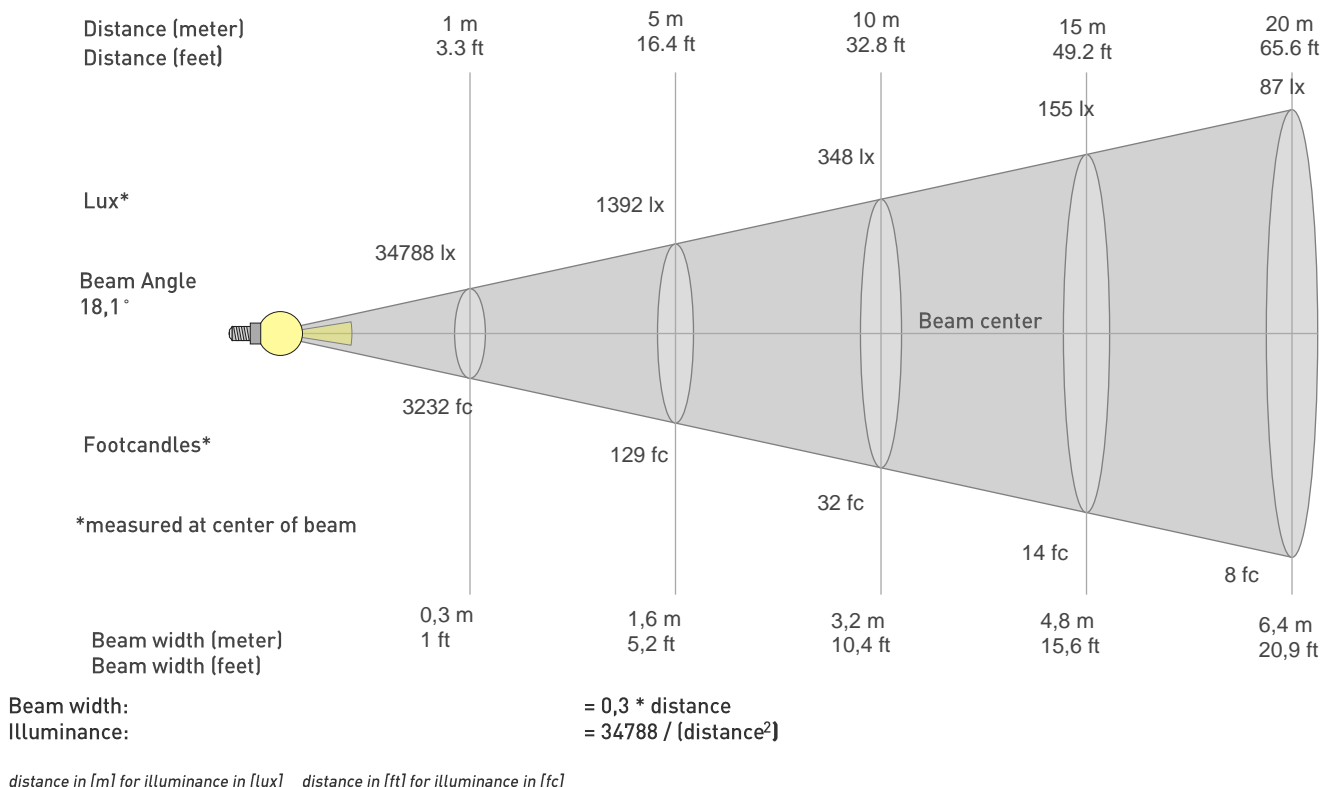
COLOR DISTORTION GRAPHICS



# Photometric Report

ELP PAR – Medium

## 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
34788lx	8697lx	3865lx	2174lx	1392lx	966lx	710lx	544lx	429lx	348lx	288lx	242lx	206lx	177lx	155lx	136lx	120lx	107lx	96lx	87lx
3231,9fc	808fc	359,1fc	202fc	129,3fc	89,8fc	66fc	50,5fc	39,9fc	32,3fc	26,7fc	22,4fc	19,1fc	16,5fc	14,4fc	12,6fc	11,2fc	10fc	9fc	8,1fc

