

Photometric Report

ELP PAR IP – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

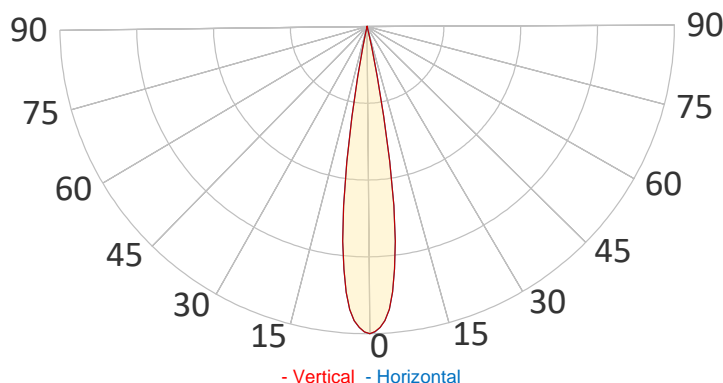
GENERAL SPECIFICATIONS

Total Fixture Output:	3500 lm
Light Engine Output:	7000 lm
Efficacy:	15 lm/W
Lens Option:	N/A
Beam Angle (50%):	4,4-33,3°
Field Angle (10%):	5,6-49,8°
Cut-off Angle (3%):	6,3-59,5°
CRI:	70+
CQS:	83
TM-30 Rf:	77
TM-30 Rg:	117
TLCI:	61
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

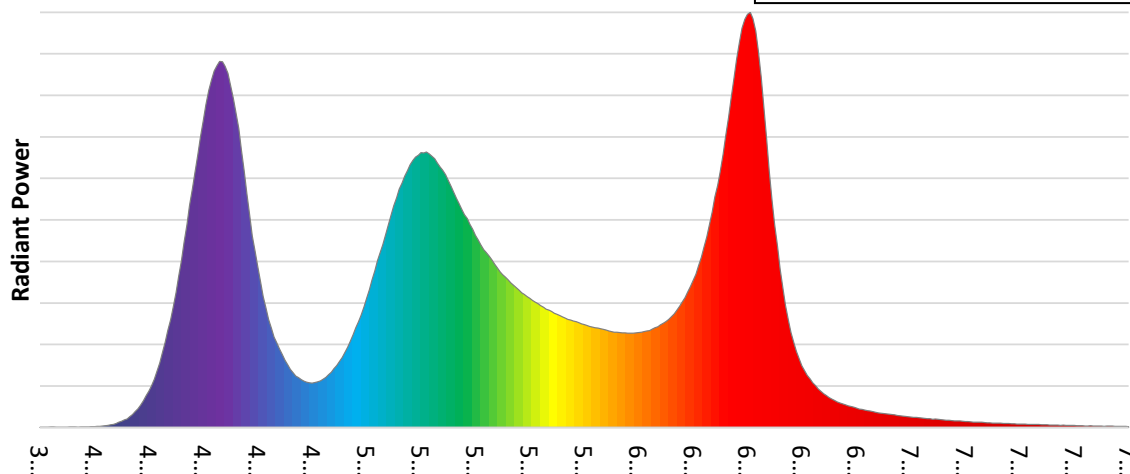


Catalog Number:	MAR-90800010
Measured Output:	2830 lm
Measured Peak:	34255 cd
Consumed Power:	234 W
Efficacy:	12,1 lm/W

Beam Angle (50%):	17,3°
Field Angle (10%):	23,2°
Cut-off Angle (3%):	25,6°

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

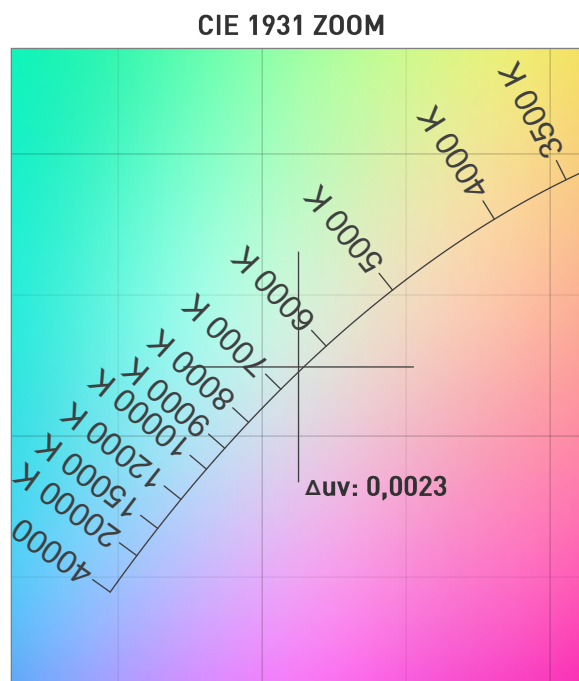
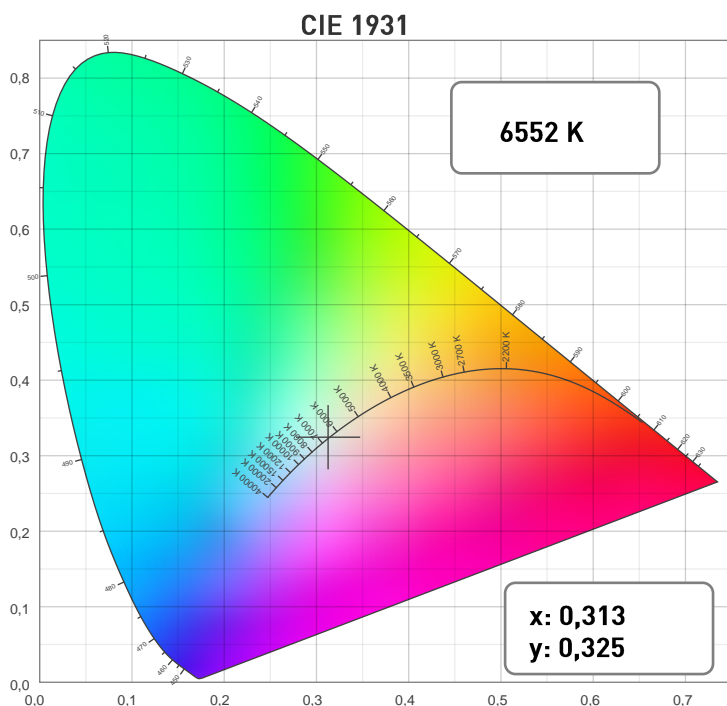
SPECTRAL DISTRIBUTION



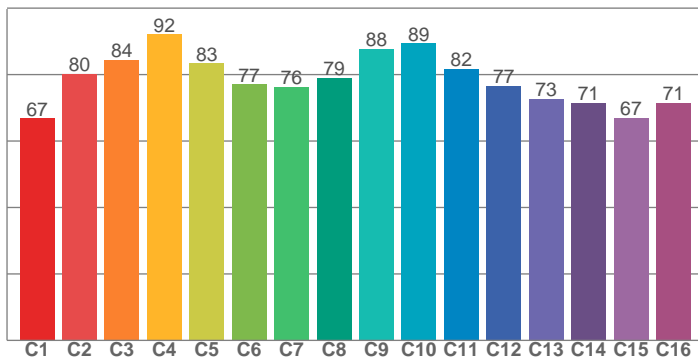
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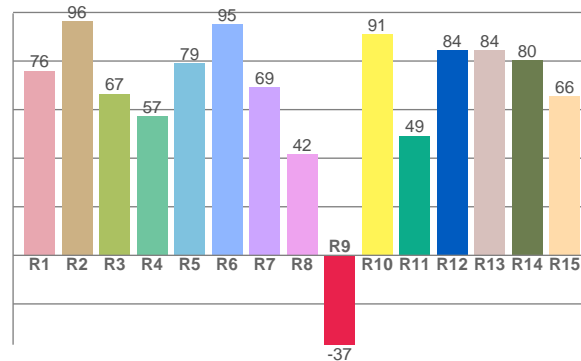
CHROMATICITY



TM30: 79,5



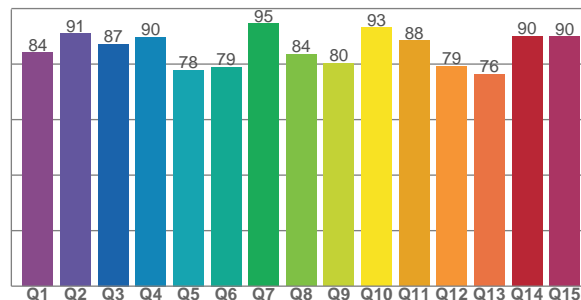
CRI: 72,6 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6552 K	72,6	-36,8	79,5	117,0

CQS: 84,5



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	Δuv
61	84,5	0,313	0,325	0,199	0,311	0,0023

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TM30

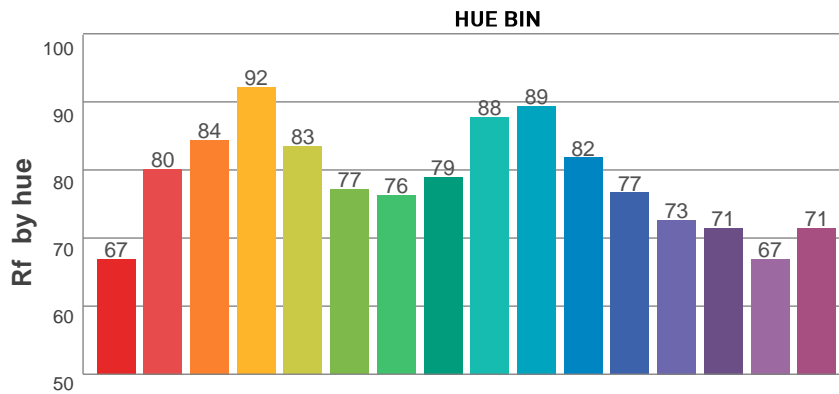
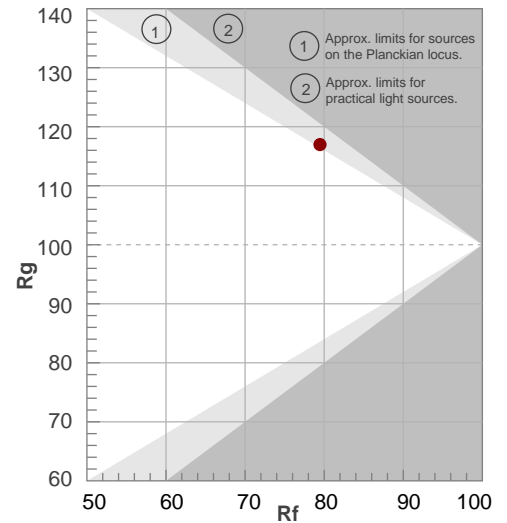
Rf 79,5

Fidelity index Rf

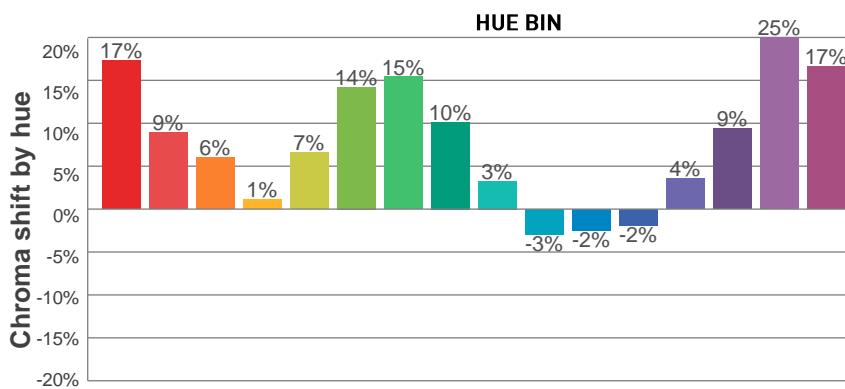
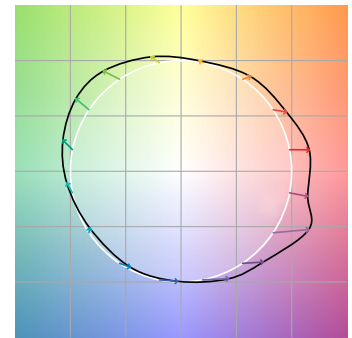
Rg 117,0

Gamut index Rg

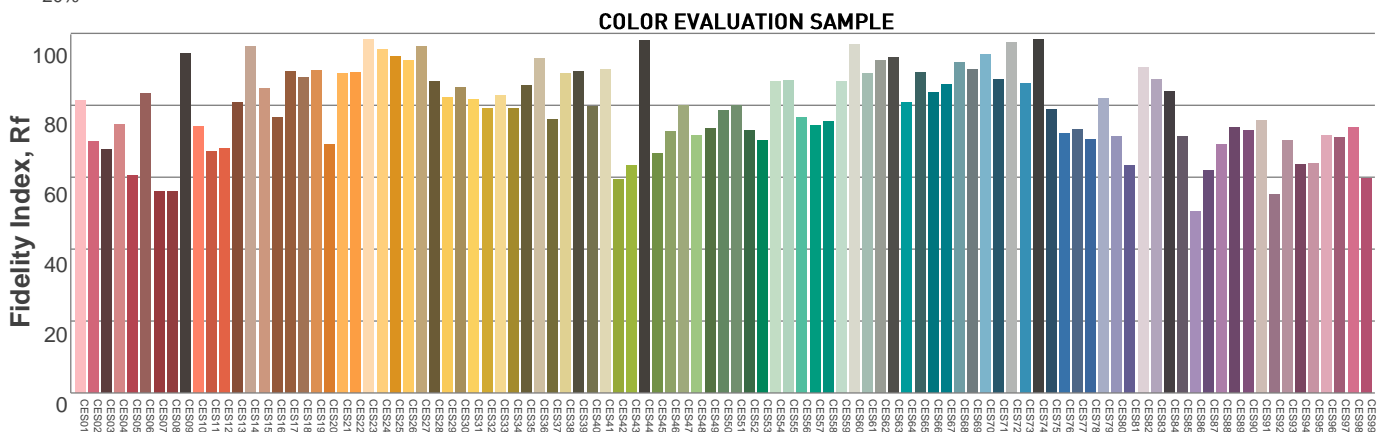
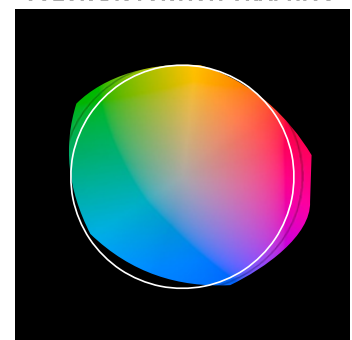
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	67	17%	-4%
2	80	9%	-8%
3	84	6%	-5%
4	92	1%	3%
5	83	7%	6%
6	77	14%	8%
7	76	15%	-2%
8	79	10%	-7%
9	88	3%	-10%
10	89	-3%	-3%
11	82	-2%	10%
12	77	-2%	16%
13	73	4%	23%
14	71	9%	16%
15	67	25%	20%
16	71	17%	0%



COLOR VECTOR GRAPHICS



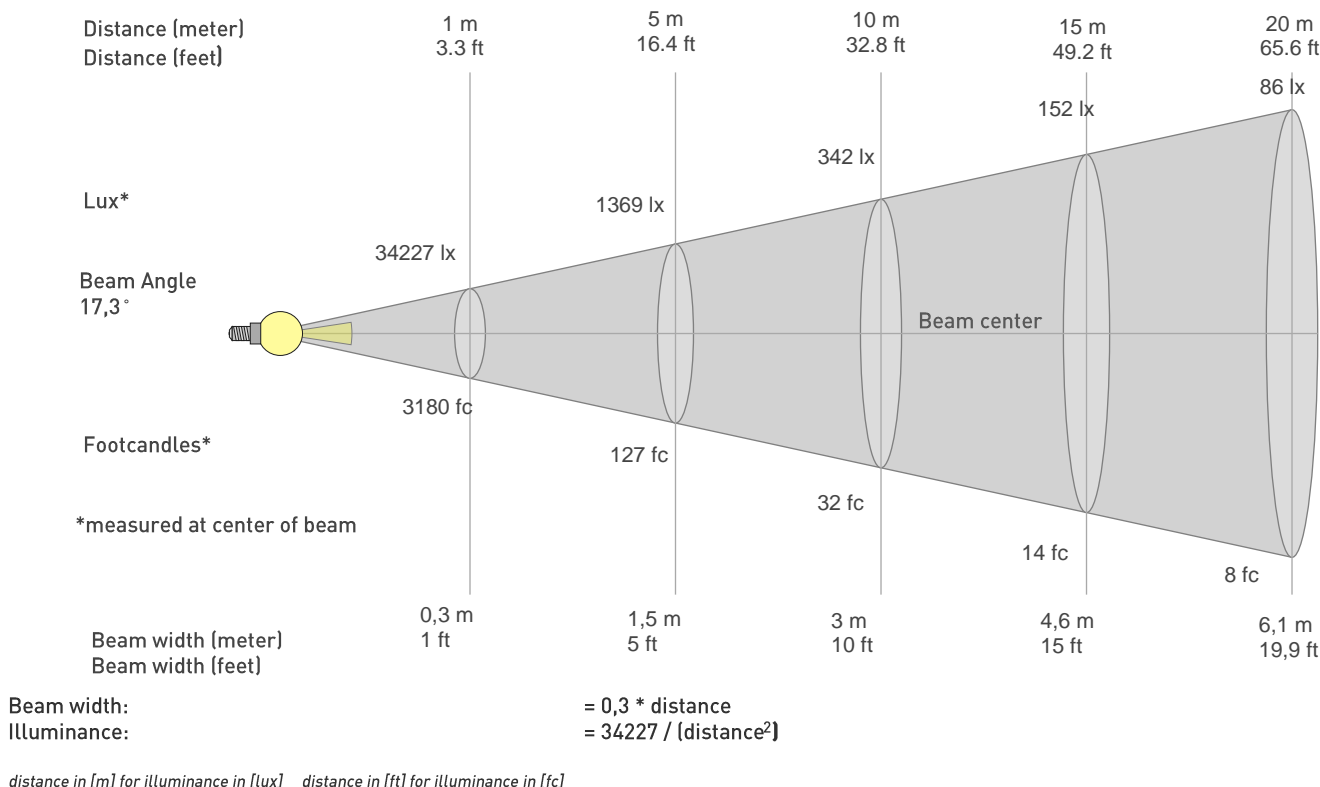
COLOR DISTORTION GRAPHICS



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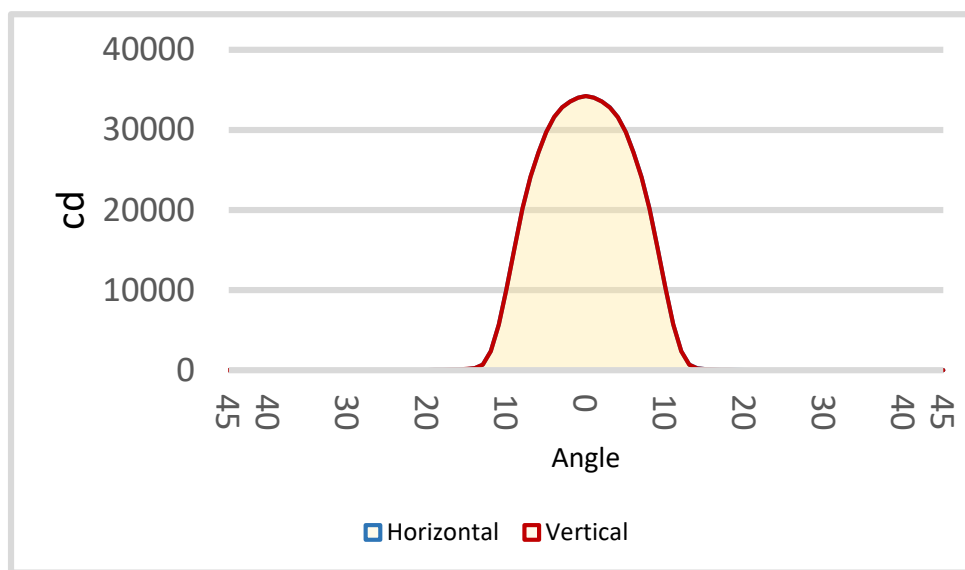
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BEAM DETAILS



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
34227lx	8557lx	3803lx	2139lx	1369lx	951lx	699lx	535lx	423lx	342lx	283lx	238lx	203lx	175lx	152lx	134lx	118lx	106lx	95lx	86lx
3179,8fc	794,9fc	353,3fc	198,7fc	127,2fc	88,3fc	64,9fc	49,7fc	39,3fc	31,8fc	26,3fc	22,1fc	18,8fc	16,2fc	14,1fc	12,4fc	11fc	9,8fc	8,8fc	7,9fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
17,3°	23,2°	25,6°