

Photometric Report

ELP PAR – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

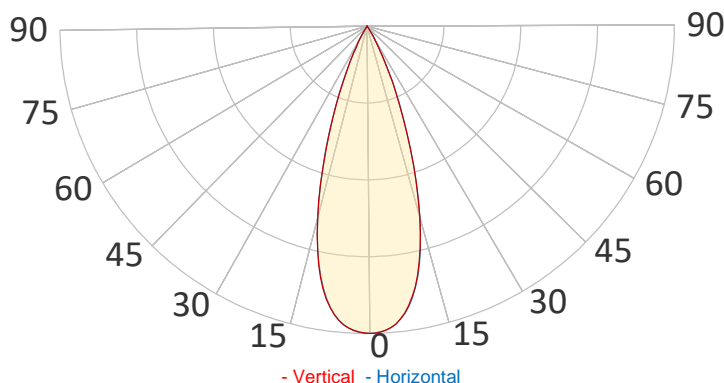
GENERAL SPECIFICATIONS

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

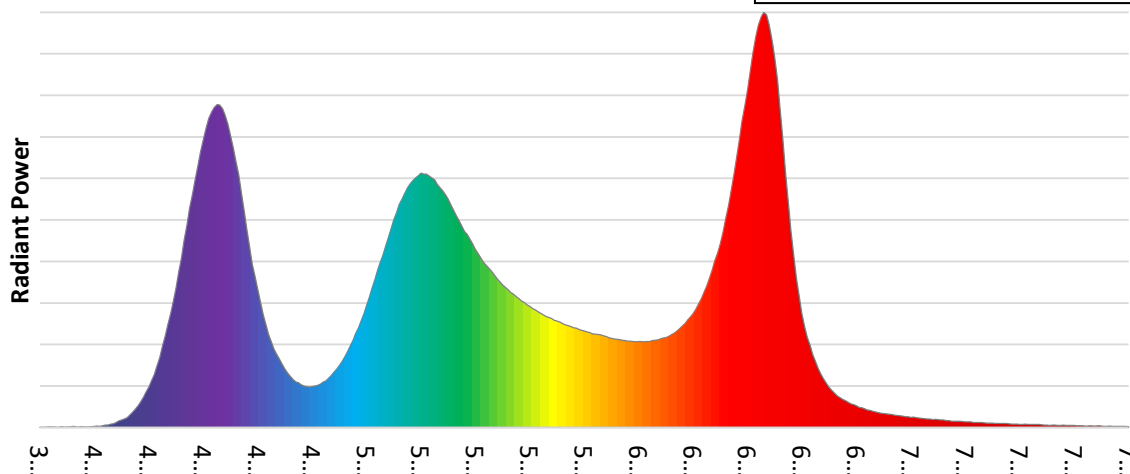


Catalog Number:	MAR-90800000
Measured Output:	3547 lm
Measured Peak:	10241 cd
Consumed Power:	237 W
Efficacy:	14,96624473 lm/W

Beam Angle (50%):	35,2°
Field Angle (10%):	54,1°
Cut-off Angle (3%):	63,8°

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

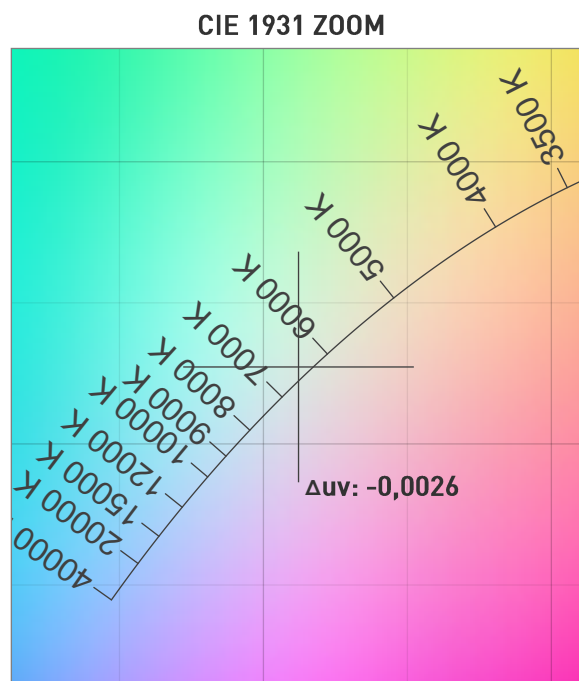
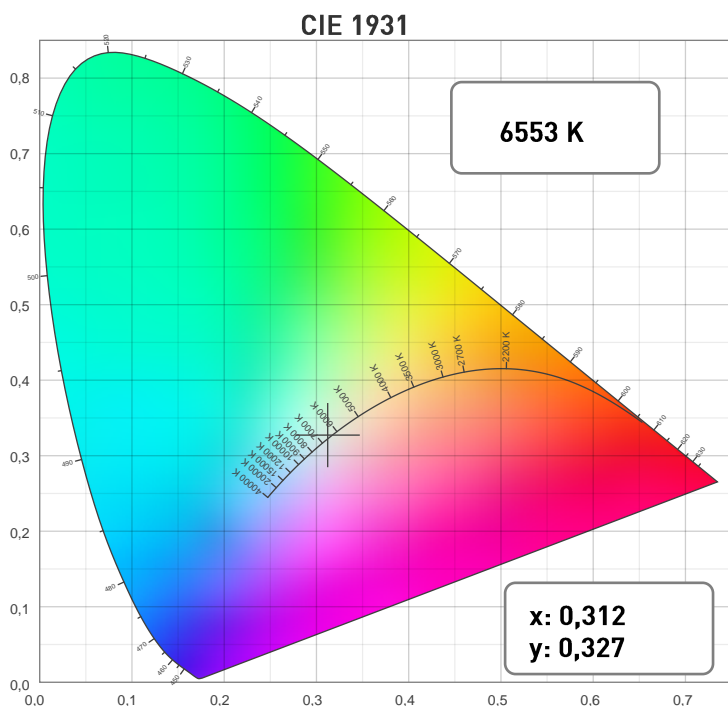
SPECTRAL DISTRIBUTION



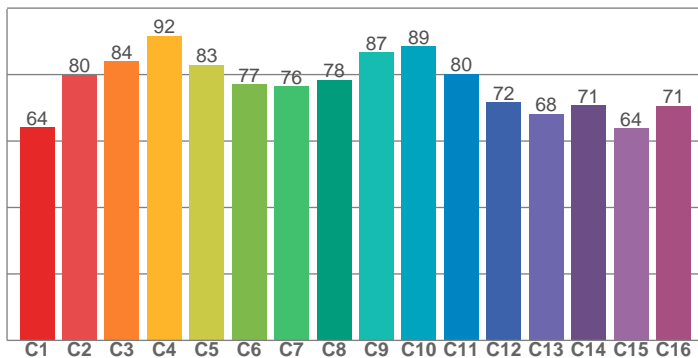
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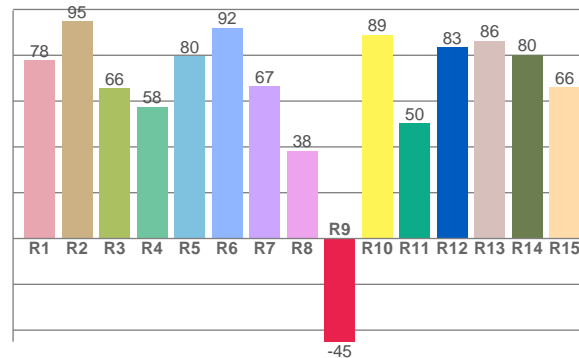
CHROMATICITY



TM30: 78,2



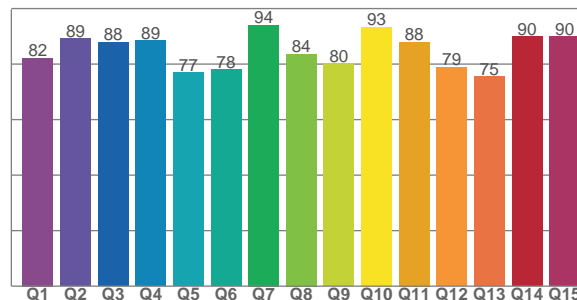
CRI: 71,6 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6553 K	71,6	-45,1	78,2	117,0

CQS: 83,9



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	83,9	0,312	0,327	0,198	0,312	-0,0026

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TM30

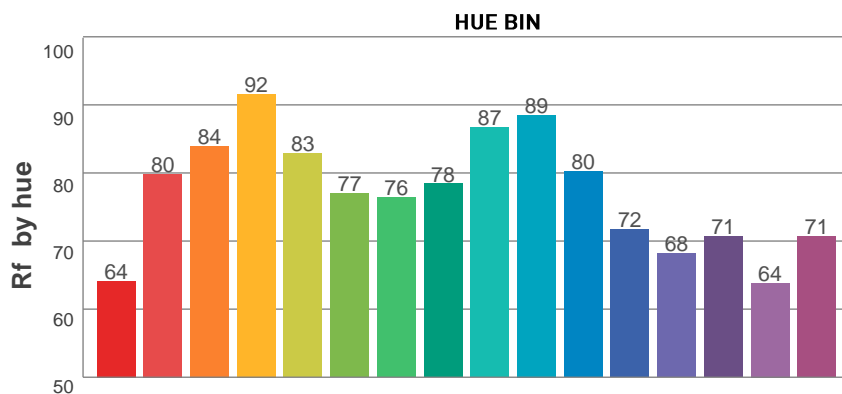
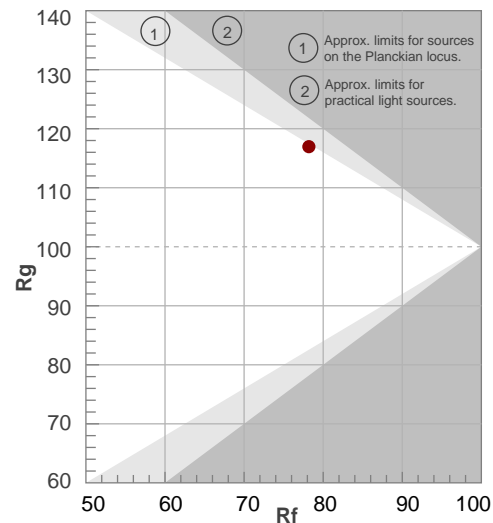
Rf 78,2

Fidelity index Rf

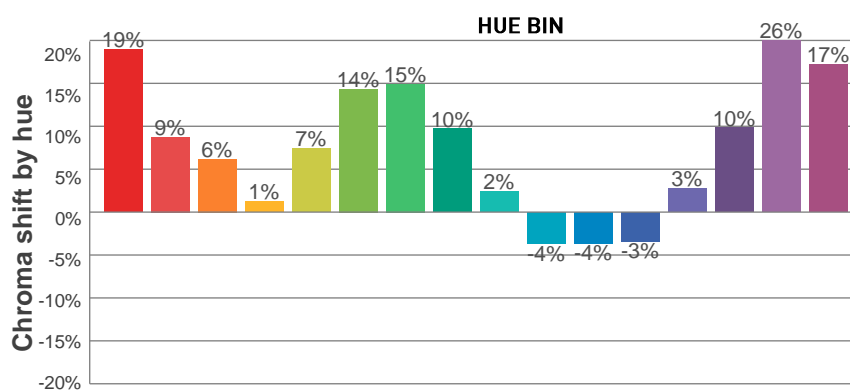
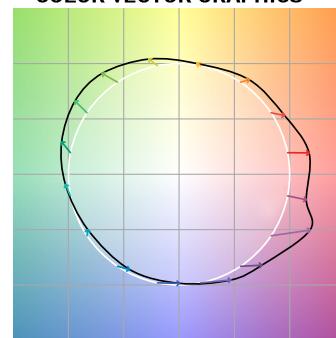
Rg 117,0

Gamut index Rg

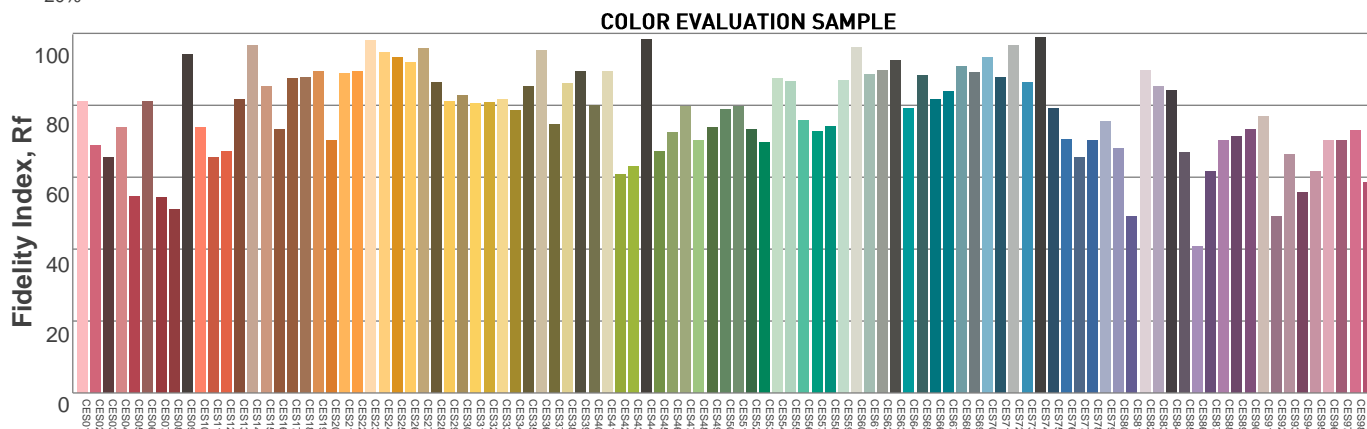
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	64	19%	-4%
2	80	9%	-9%
3	84	6%	-5%
4	92	1%	4%
5	83	7%	7%
6	77	14%	7%
7	76	15%	-3%
8	78	10%	-8%
9	87	2%	-11%
10	89	-4%	-4%
11	80	-4%	10%
12	72	-3%	20%
13	68	3%	27%
14	71	10%	17%
15	64	26%	24%
16	71	17%	0%



COLOR VECTOR GRAPHICS



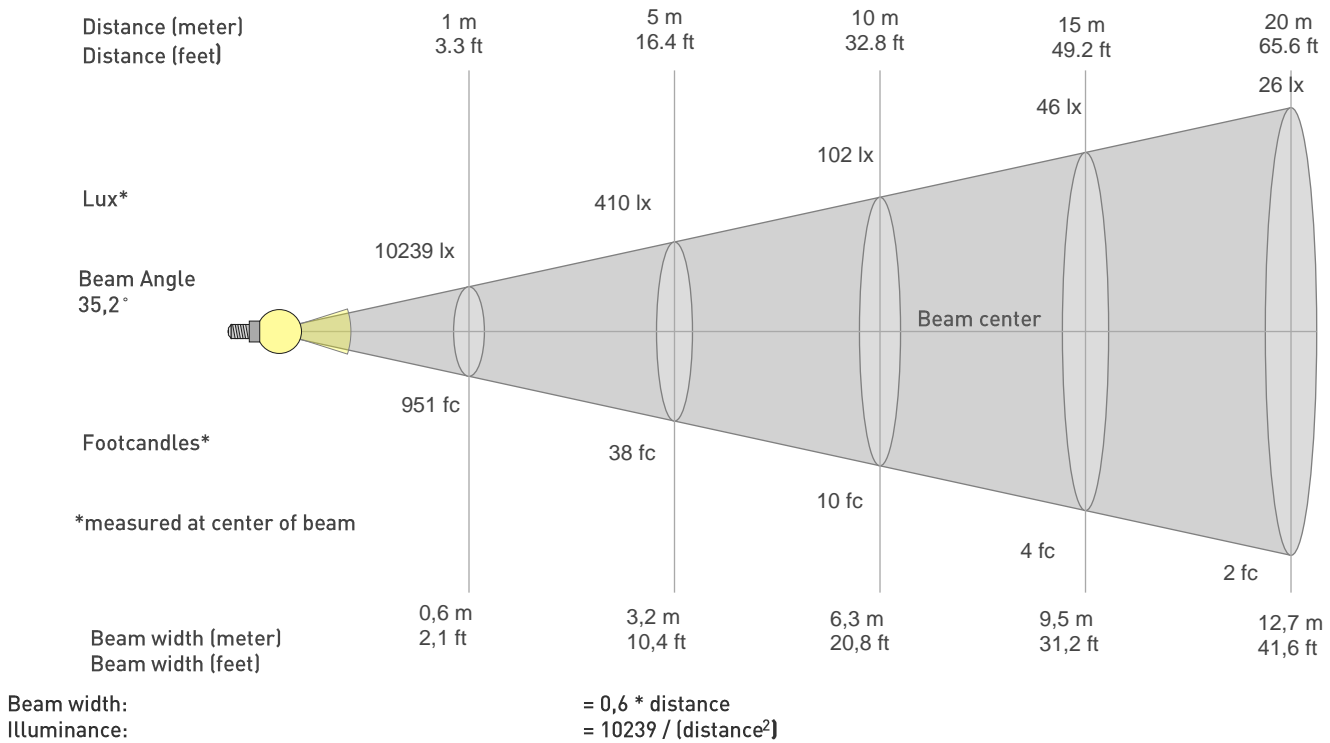
COLOR DISTORTION GRAPHICS



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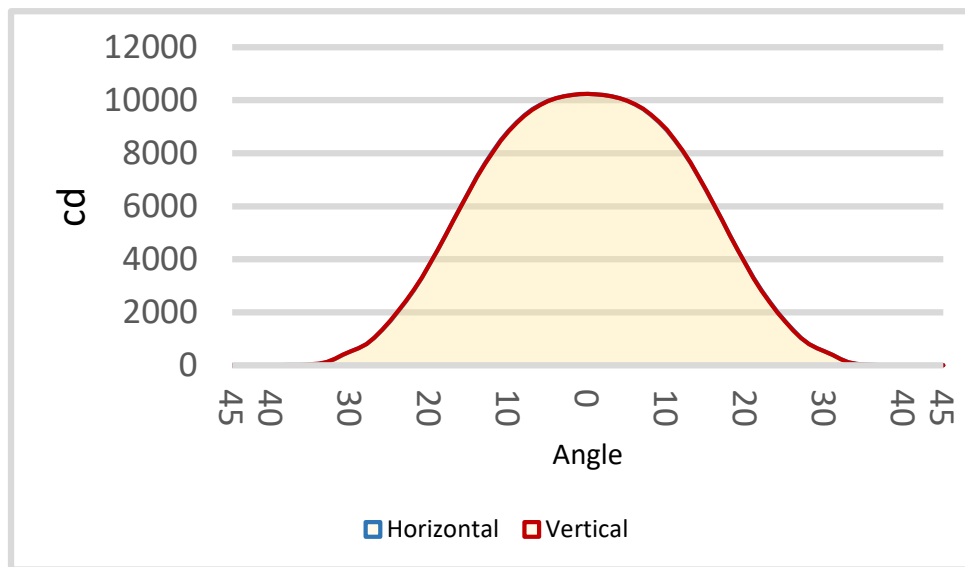
BEAM DETAILS



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
10239lx	2560lx	1138lx	640lx	410lx	284lx	209lx	160lx	126lx	102lx	85lx	71lx	61lx	52lx	46lx	40lx	35lx	32lx	28lx	26lx
951,3fc	237,8fc	105,7fc	59,5fc	38,1fc	26,4fc	19,4fc	14,9fc	11,7fc	9,5fc	7,9fc	6,6fc	5,6fc	4,9fc	4,2fc	3,7fc	3,3fc	2,9fc	2,6fc	2,4fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
35,2°	54,1°	63,8°