

Photometric Report

ELP PAR IP – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

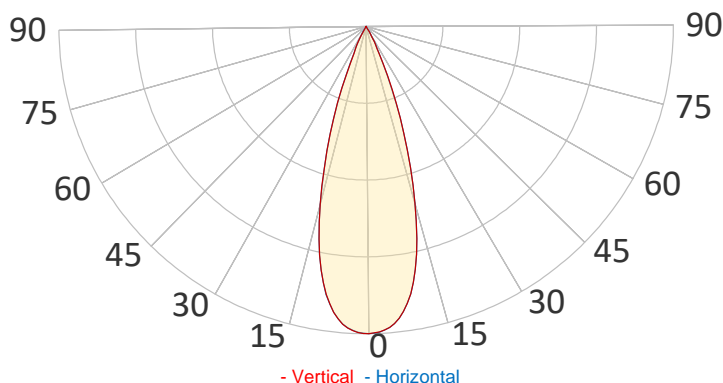
GENERAL SPECIFICATIONS

Total Fixture Output:	3500 lm
Light Engine Output:	7000 lm
Efficacy:	15 lm/W
Lens Option:	N/A
Beam Angle (50%):	4,4-33,3°
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

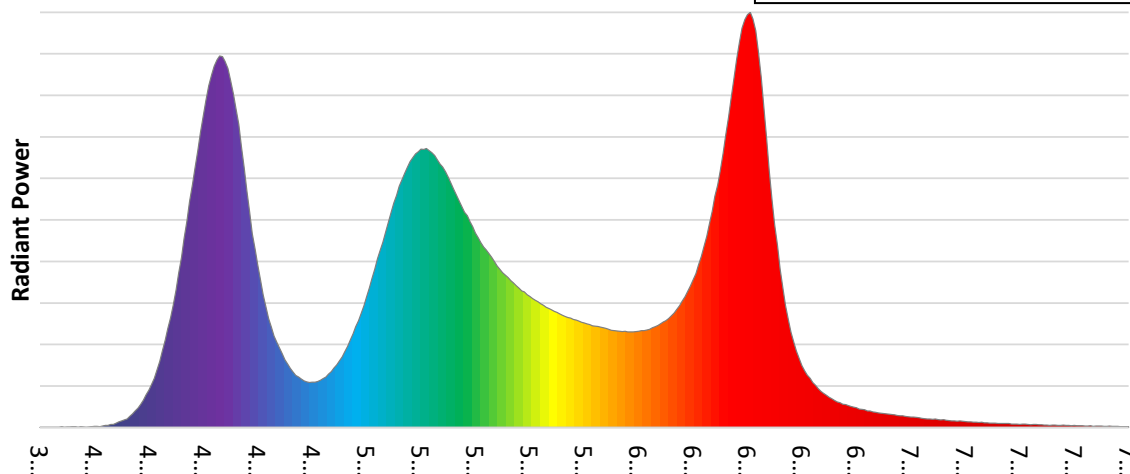


Catalog Number:	MAR-90800010
Measured Output:	3344 lm
Measured Peak:	10141 cd
Consumed Power:	234 W
Efficacy:	14,3 lm/W

Beam Angle (50%):	33,3°
Field Angle (10%):	49,8°
Cut-off Angle (3%):	59,5°

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

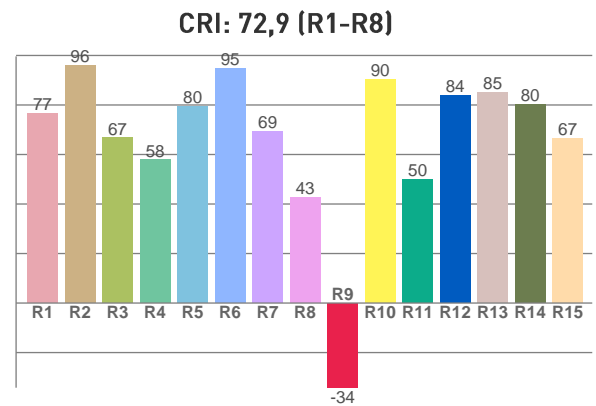
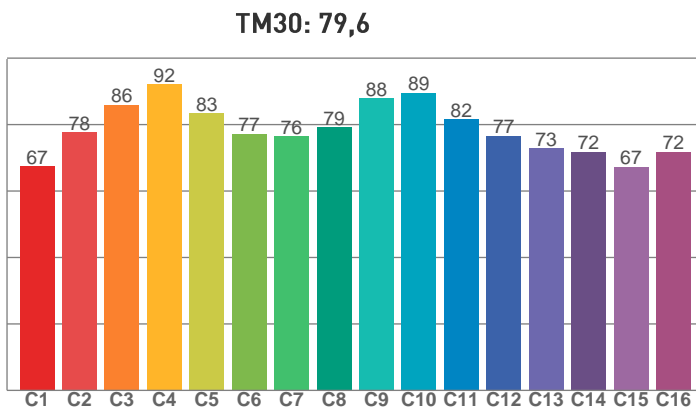
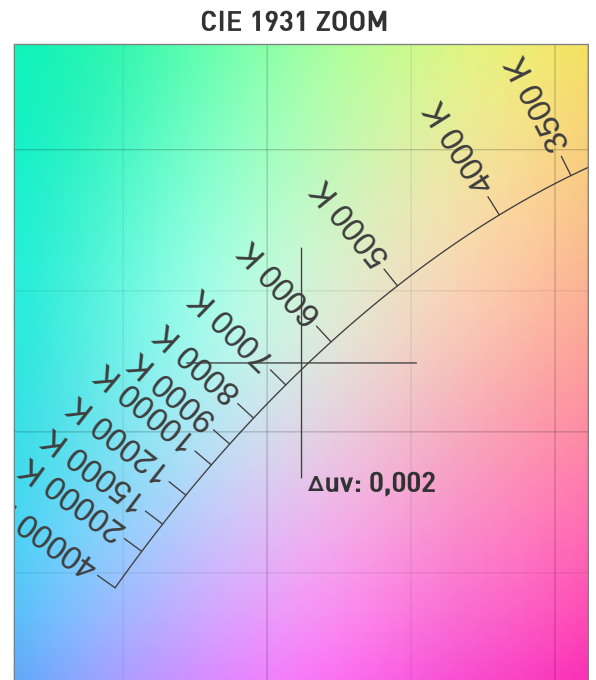
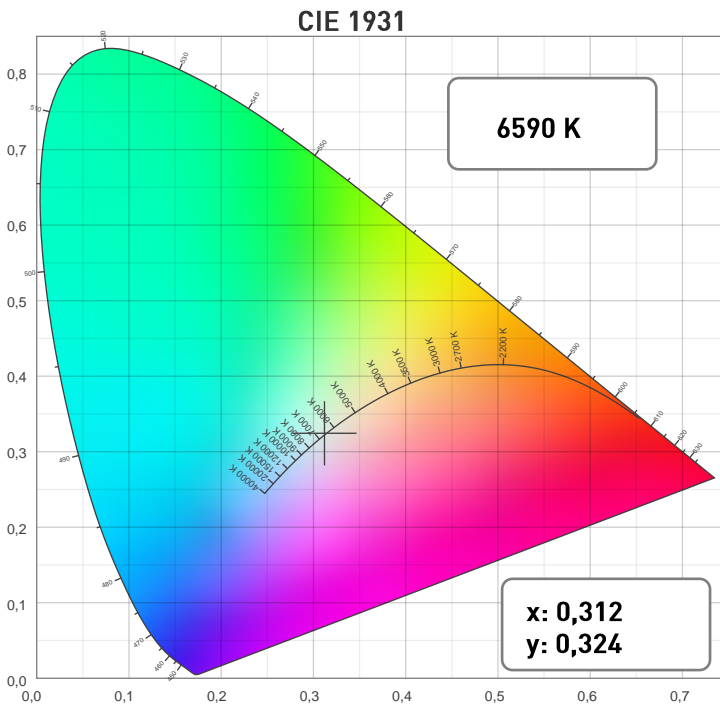
SPECTRAL DISTRIBUTION



Photometric Report

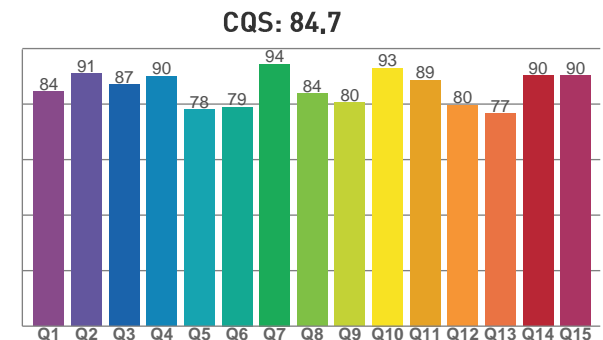
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6590 K	72,9	-34,2	79,6	116,6



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	84,7	0,312	0,324	0,199	0,310	0,002

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TM30

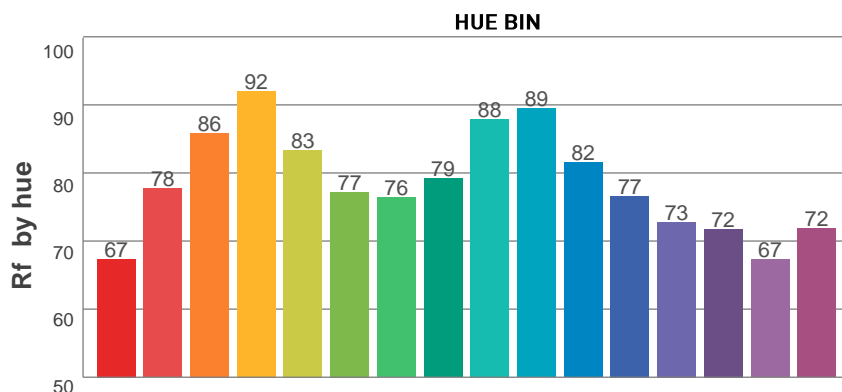
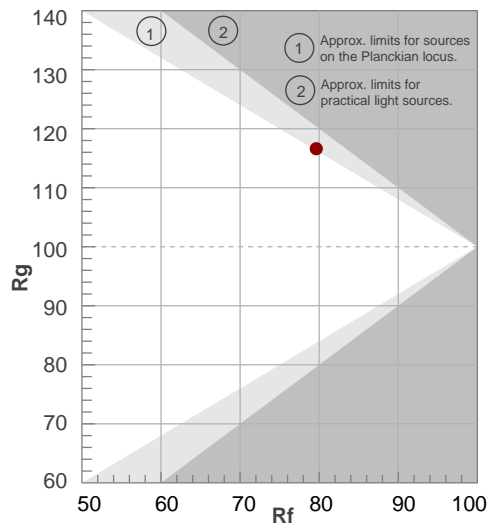
Rf 79,6

Fidelity index Rf

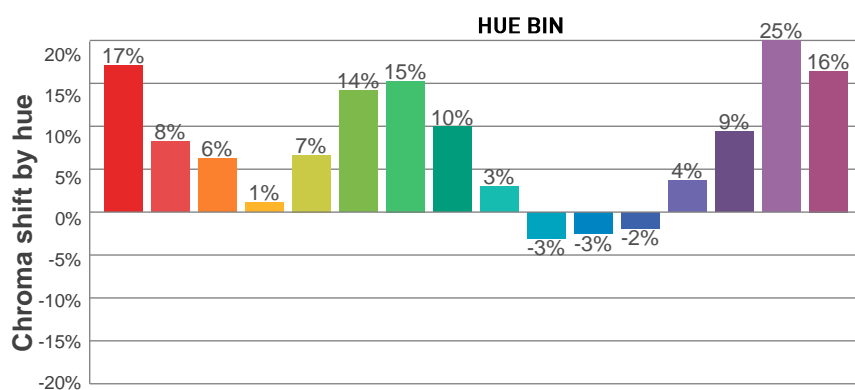
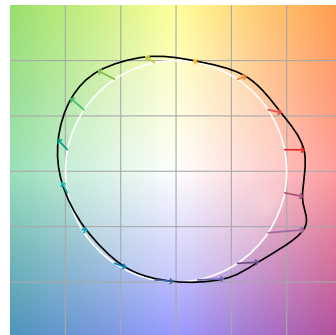
Rg 116,6

Gamut index Rg

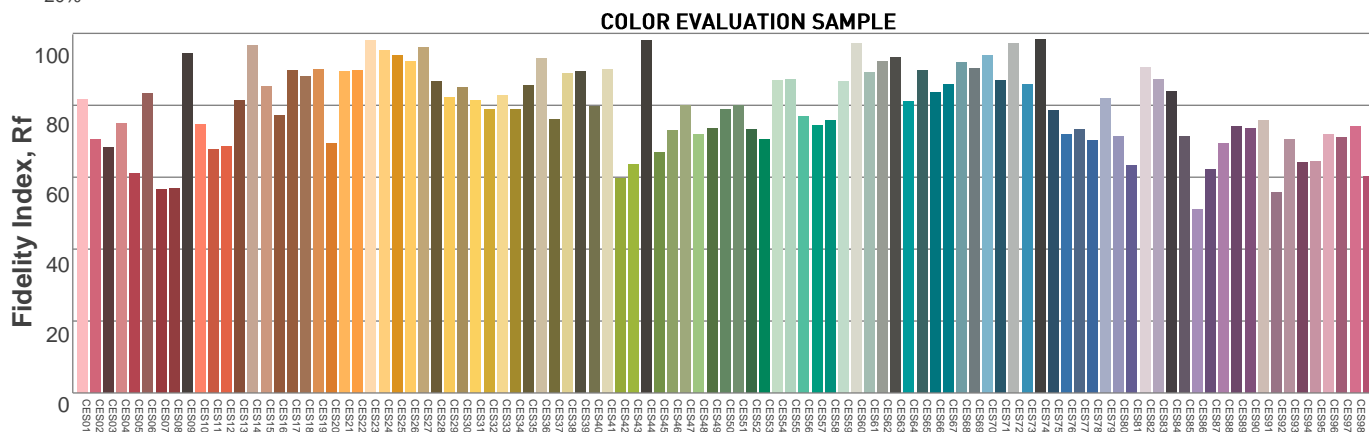
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	67	17%	-4%
2	78	8%	-8%
3	86	6%	-5%
4	92	1%	3%
5	83	7%	6%
6	77	14%	8%
7	76	15%	-2%
8	79	10%	-7%
9	88	3%	-10%
10	89	-3%	-3%
11	82	-3%	10%
12	77	-2%	16%
13	73	4%	23%
14	72	9%	16%
15	67	25%	20%
16	72	16%	0%



COLOR VECTOR GRAPHICS



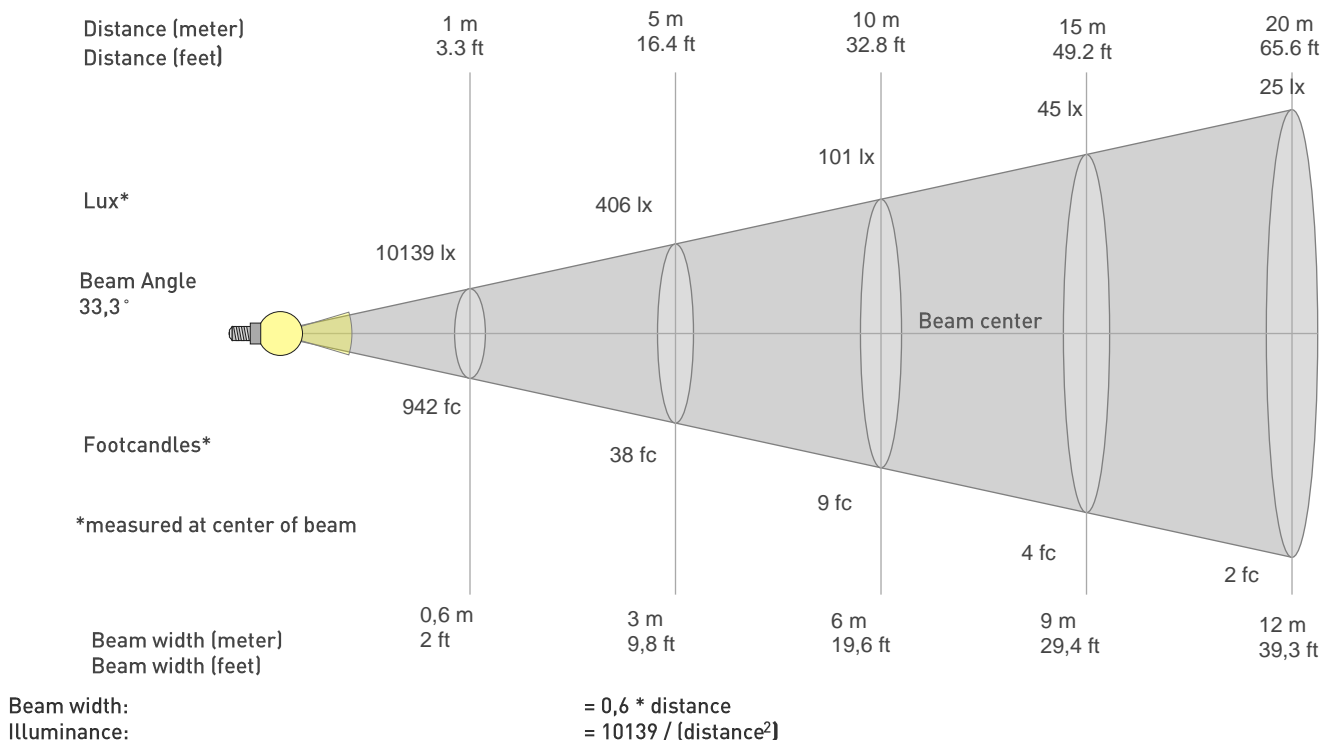
COLOR DISTORTION GRAPHICS



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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
10139lx	2535lx	1127lx	634lx	406lx	282lx	207lx	158lx	125lx	101lx	84lx	70lx	60lx	52lx	45lx	40lx	35lx	31lx	28lx	25lx
941,9fc	235,5fc	104,7fc	58,9fc	37,7fc	26,2fc	19,2fc	14,7fc	11,6fc	9,4fc	7,8fc	6,5fc	5,6fc	4,8fc	4,2fc	3,7fc	3,3fc	2,9fc	2,6fc	2,4fc

