

Photometric Report

ELP PAR IP – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

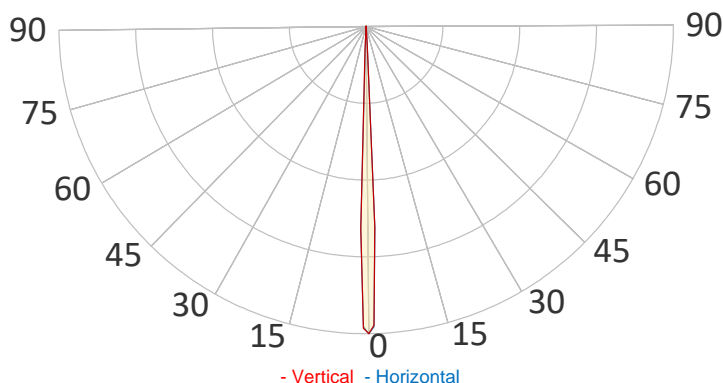
GENERAL SPECIFICATIONS

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

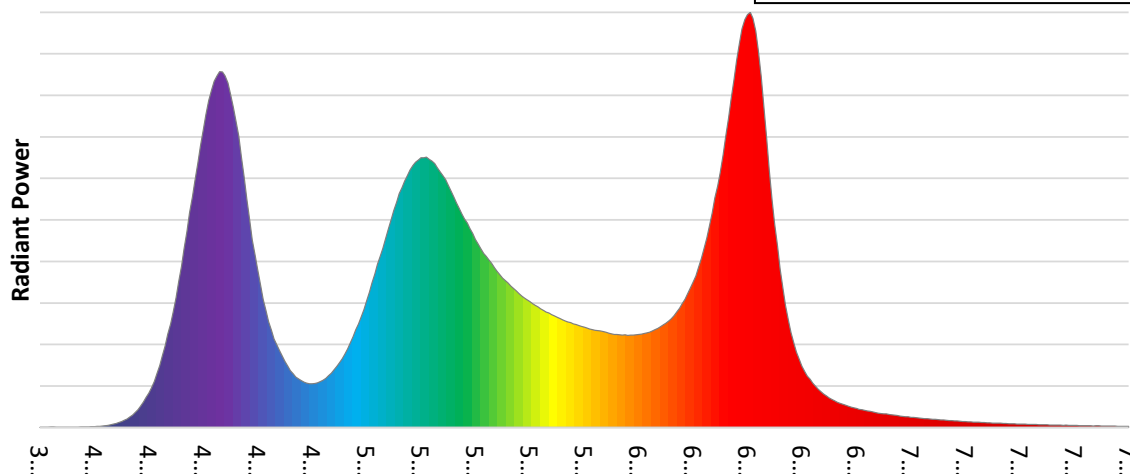


Catalog Number:	MAR-90800010
Measured Output:	1936 lm
Measured Peak:	329058 cd
Consumed Power:	234 W
Efficacy:	8,3 lm/W

Beam Angle (50%):	4,4°
Field Angle (10%):	5,6°
Cut-off Angle (3%):	6,3°

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

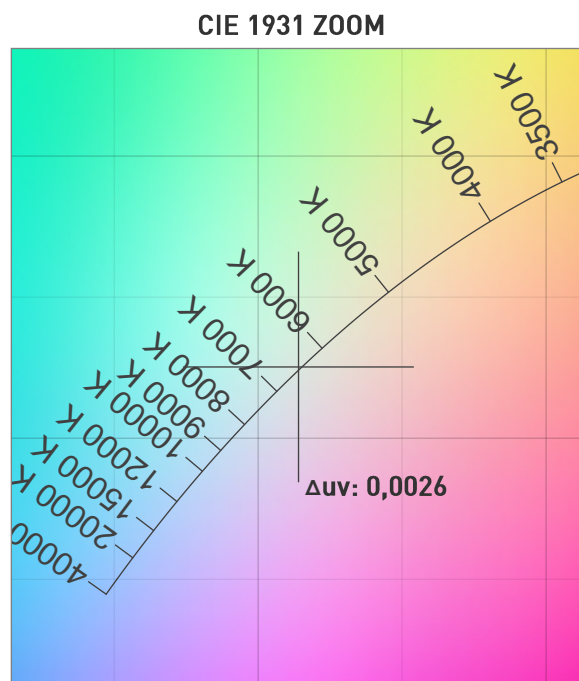
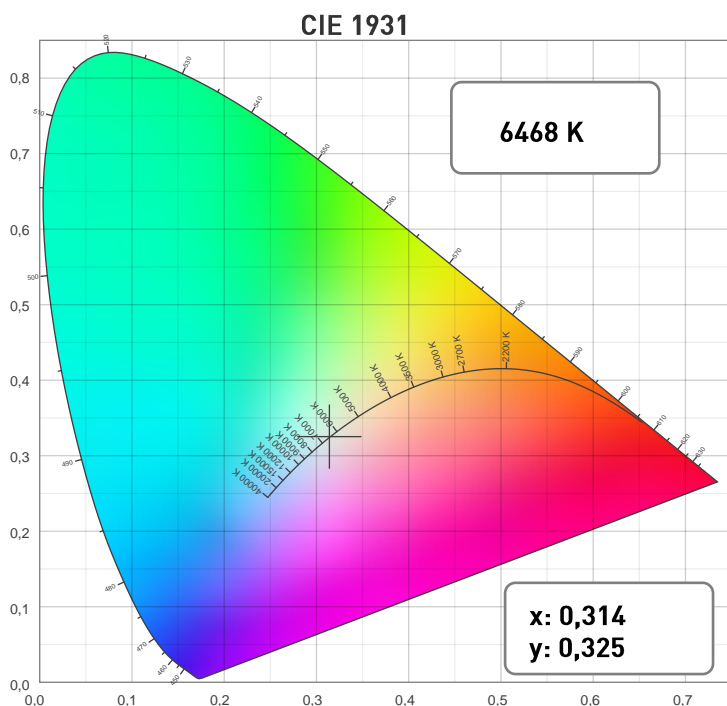
SPECTRAL DISTRIBUTION



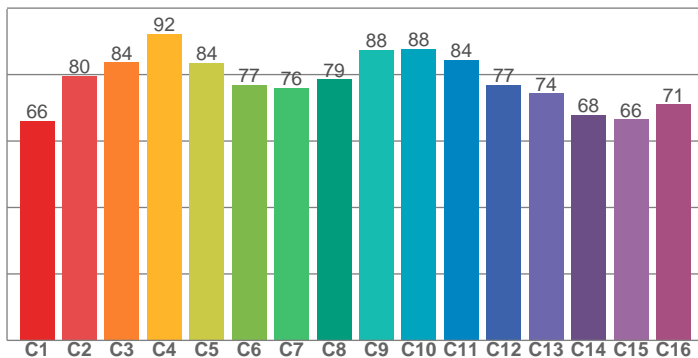
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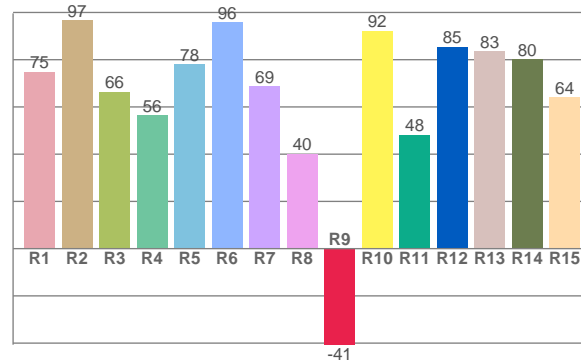
CHROMATICITY



TM30: 79,2



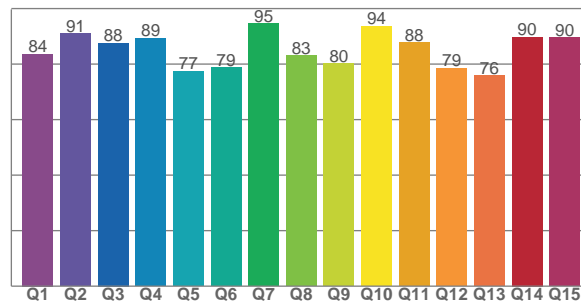
CRI: 72,1 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6468 K	72,1	-40,7	79,2	117,5

CQS: 84,2



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	84,2	0,314	0,325	0,200	0,311	0,0026

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TM30

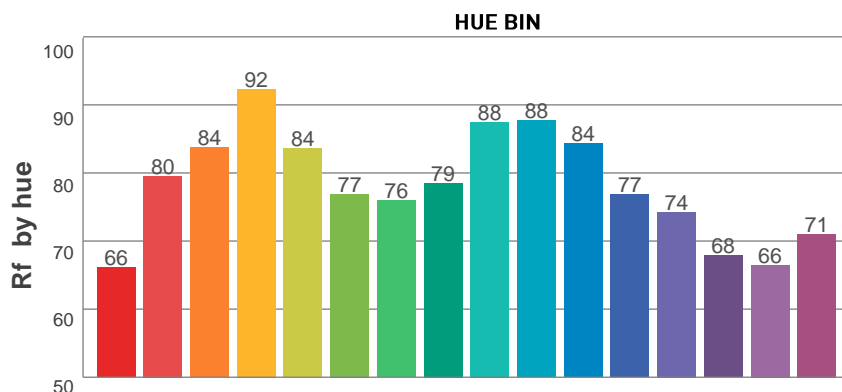
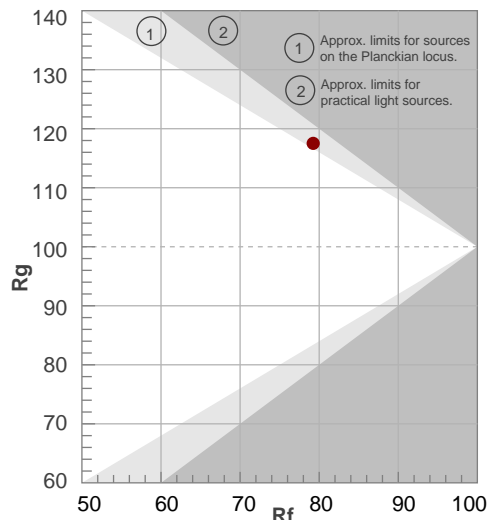
Rf 79,2

Fidelity index Rf

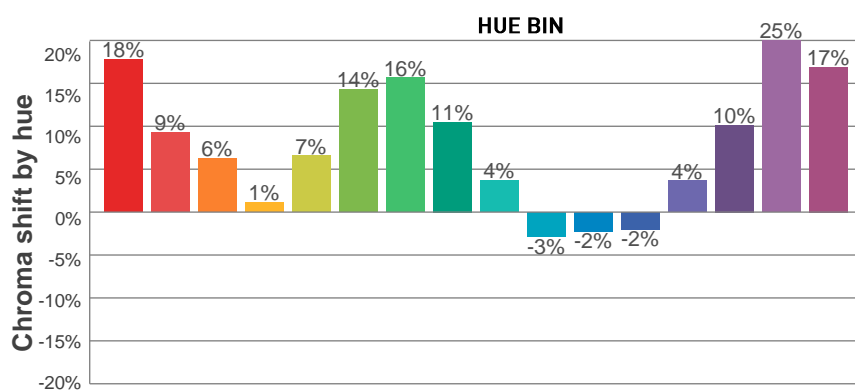
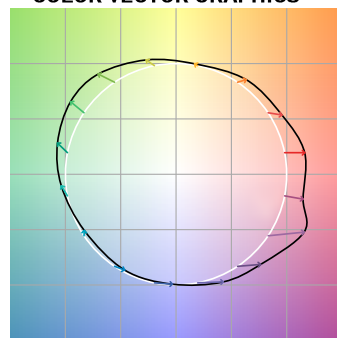
Rg 117,5

Gamut index Rg

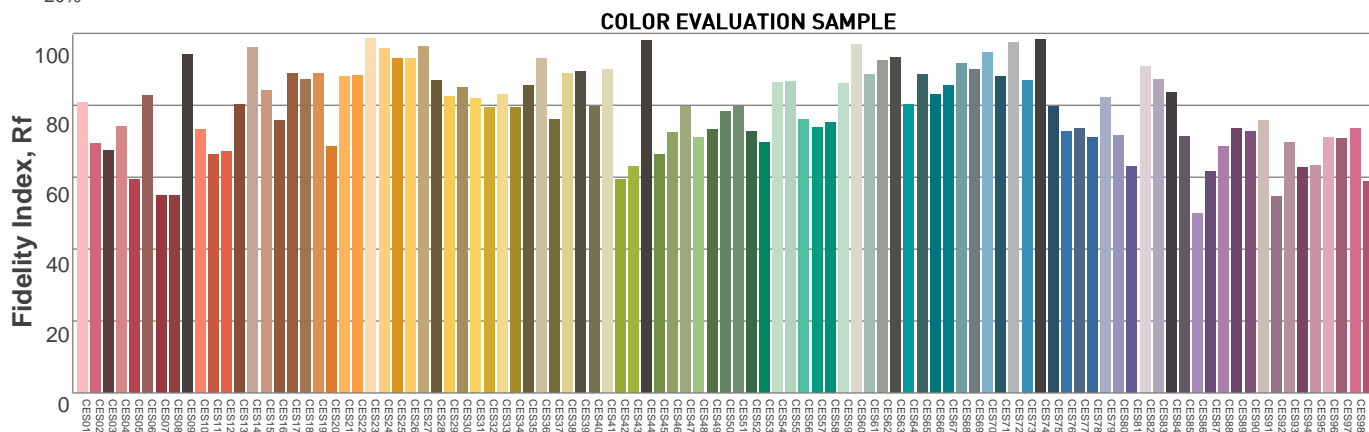
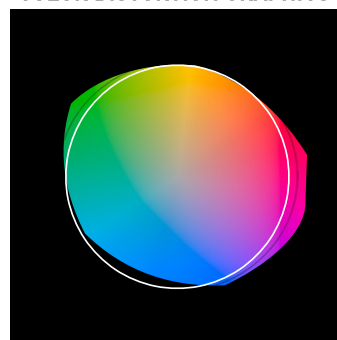
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	66	18%	-4%
2	80	9%	-9%
3	84	6%	-5%
4	92	1%	3%
5	84	7%	6%
6	77	14%	8%
7	76	16%	-2%
8	79	11%	-7%
9	88	4%	-10%
10	88	-3%	-4%
11	84	-2%	9%
12	77	-2%	16%
13	74	4%	23%
14	68	10%	18%
15	66	25%	21%
16	71	17%	0%



COLOR VECTOR GRAPHICS



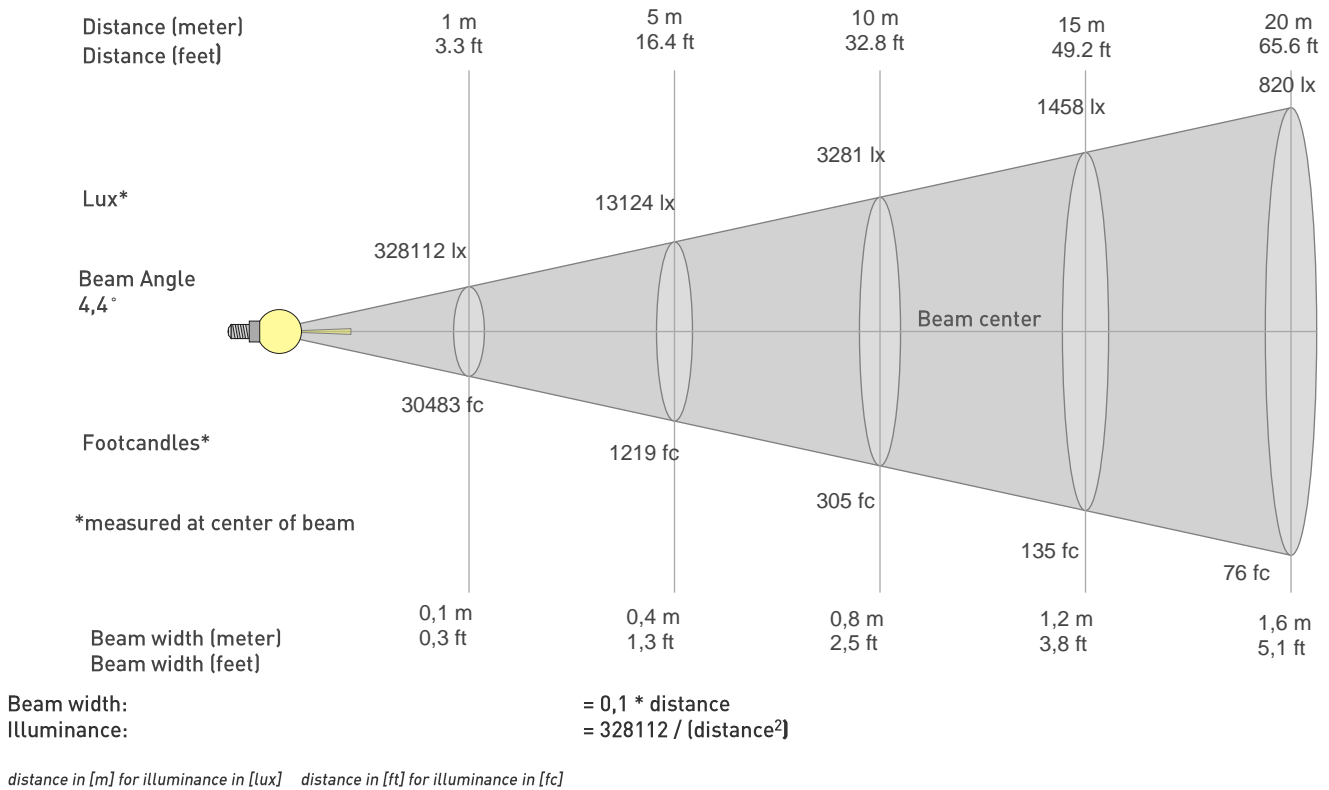
COLOR DISTORTION GRAPHICS



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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
328112lx	82028lx	36457lx	20507lx	13124lx	9114lx	6696lx	5127lx	4051lx	3281lx	2712lx	2279lx	1941lx	1674lx	1458lx	1282lx	1135lx	1013lx	909lx	820lx
30482,6fc	7620,7fc	3387fc	1905,2fc	1219,3fc	846,7fc	622,1fc	476,3fc	376,3fc	304,8fc	251,9fc	211,7fc	180,4fc	155,5fc	135,5fc	119,1fc	105,5fc	94,1fc	84,4fc	76,2fc

