

Photometric Report

ELP CL ZOOM LENS 15-30 DEGREE — NARROW

SPEC SHEET

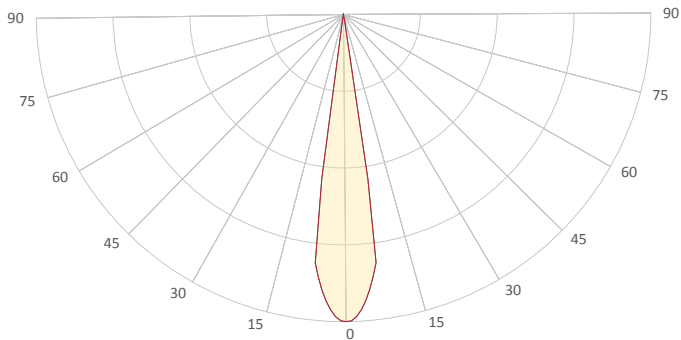
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS



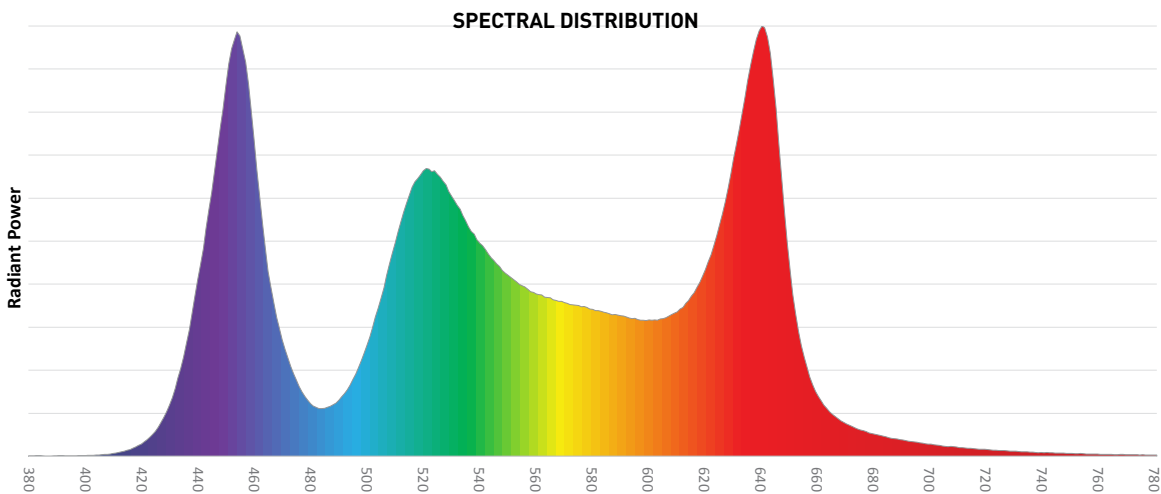
Total Fixture Output:	7150 lm
Light Engine Output:	20 klm
Efficacy:	27 Lumen/Watt
Lens Option:	N/A
Zoomrange:	15–30°
CRI:	83
CQS:	91
TM-30 Rf:	85
TM-30 Rg:	111
TLCI:	83
Color Temperature:	Variable

MEASUREMENT



- Vertical - Horizontal

Catalog Number:	9045121618
Measured Output:	6800 lm
Measured Peak:	108890 cd
Consumed Power:	255 W
Efficacy:	26.7 Lumen/Watt
Beam Angle (50%):	16.1°
Field Angle (10%):	17.6°
Cutoff Angle (3%):	18°
Measurement Condition:	
Ambient Temperature:	25° +/- 5 °C
AC Supply:	230V/50Hz

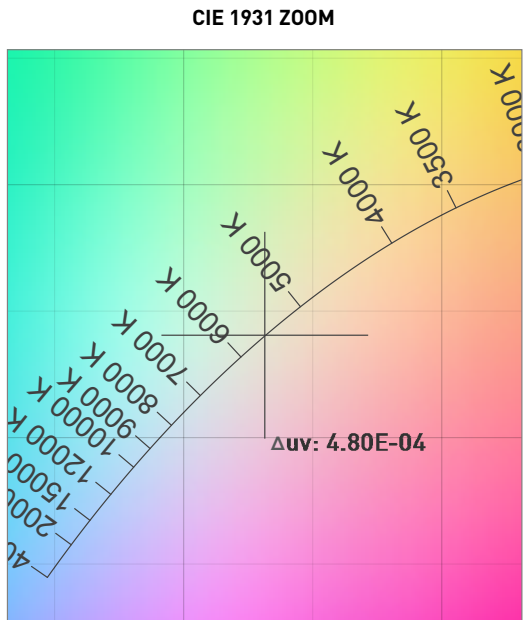
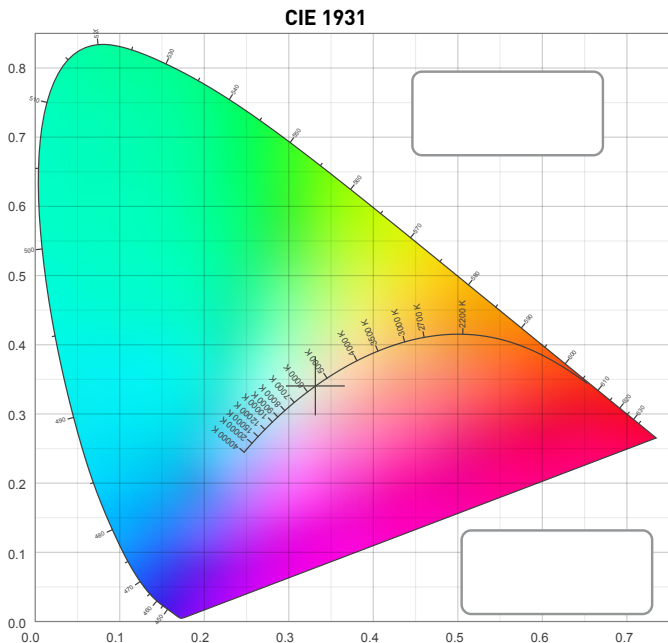


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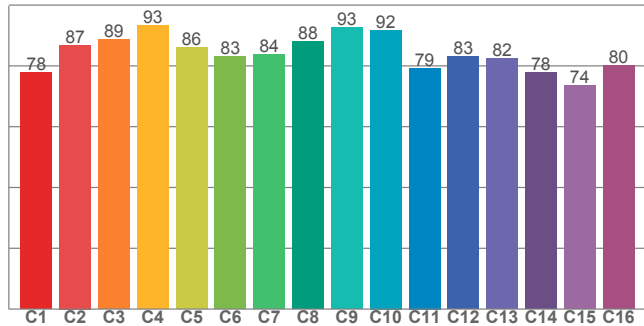
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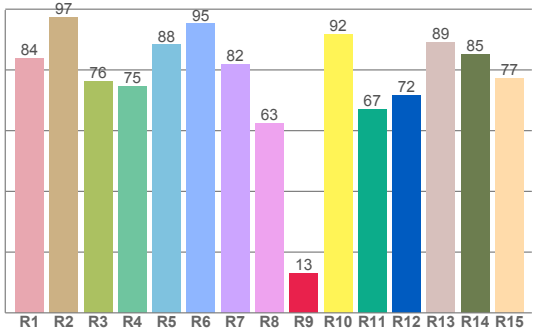
CHROMATICITY



TM30: 84.6



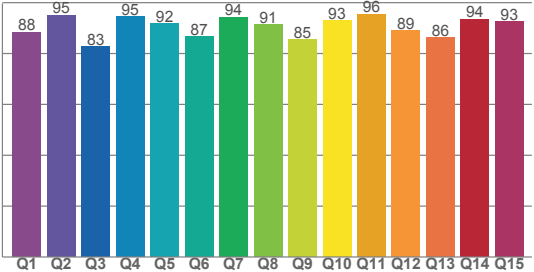
CRI: 82.5 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5550 K	82.5	13.1	84.6	111.1

CQS: 89.9



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
83	89.9	0.331	0.340	0.206	0.318	4.80E-04

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TM30

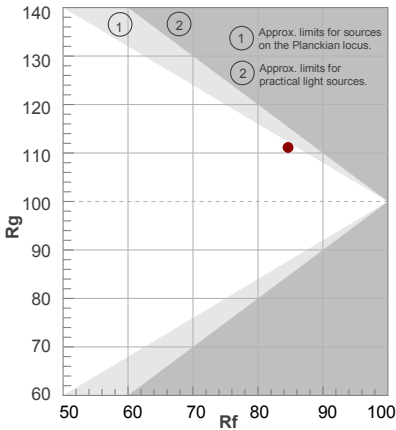
Rf 84.6

Fidelity index Rf

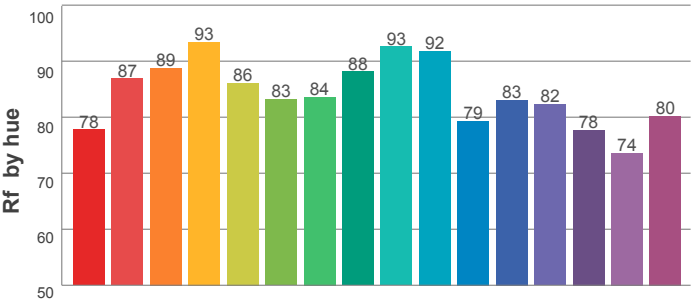
Rg 111.1

Gamut index Rg

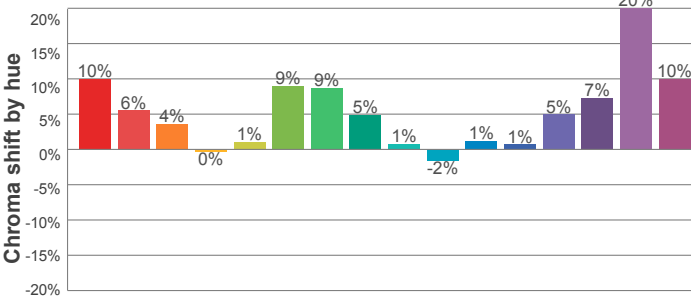
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	10%	-1%
2	87	6%	-5%
3	89	4%	-3%
4	93	0%	2%
5	86	1%	5%
6	83	9%	6%
7	84	9%	1%
8	88	5%	-1%
9	93	1%	0%
10	92	-2%	3%
11	79	1%	11%
12	83	1%	11%
13	82	5%	13%
14	78	7%	10%
15	74	20%	7%
16	80	10%	0%



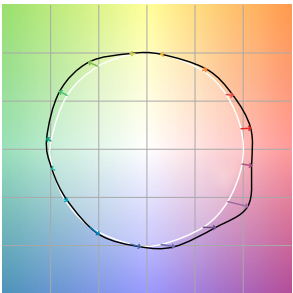
HUE BIN



HUE BIN



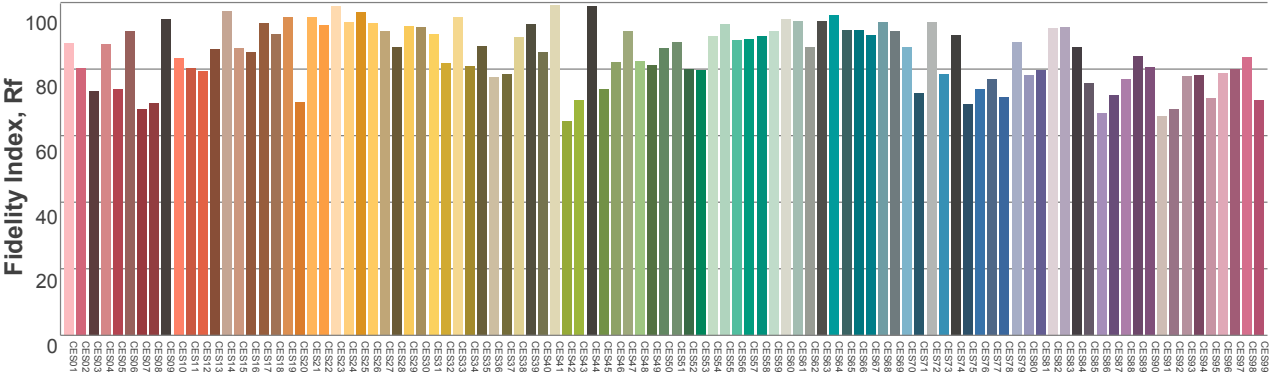
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



COLOR EVALUATION SAMPLE

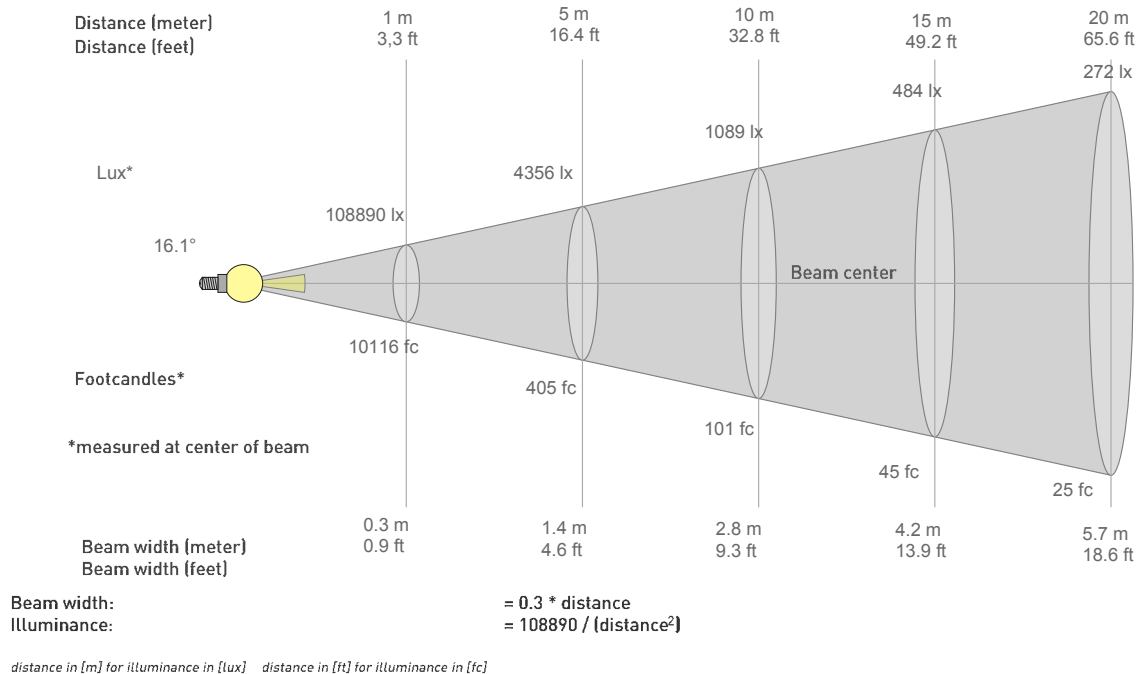


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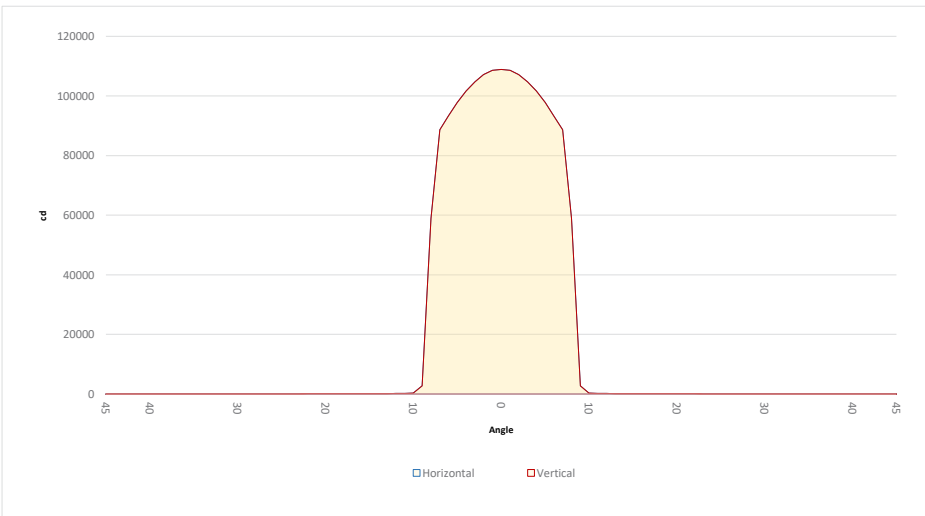
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BEAM DETAILS



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
108890lx	27223lx	12099lx	6806lx	4356lx	3025lx	2222lx	1701lx	1344lx	1089lx	900lx	756lx	644lx	556lx	484lx	425lx	377lx	336lx	302lx	272lx
10116.2fc	2529.1fc	1124fc	632.3fc	404.6fc	281fc	206.5fc	158.1fc	124.9fc	101.2fc	83.6fc	70.3fc	59.9fc	51.6fc	45fc	39.5fc	35fc	31.2fc	28fc	25.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
16.1°	17.6°	18°