

Photometric Report

ELP CL IP (High Quality mode) – 50 degree

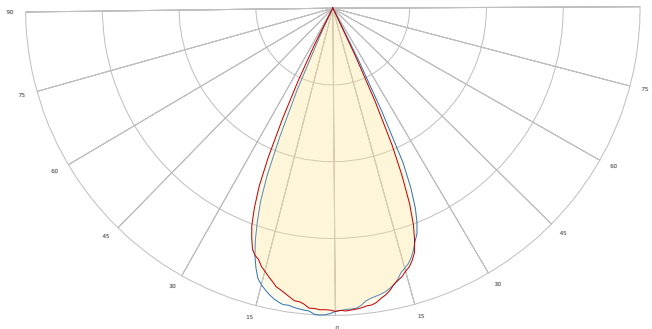
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	6500 lm
Light Engine Output:	20 klm
Efficacy:	31 Lumen/Watt
Lens Option:	50 ° Lens
Zoomrange:	50 °
CRI:	90
CQS:	N/A
TM-30 Rf:	84.9
TM-30 Rg:	104
TLCI:	88
Color Temperature:	Variable



MEASUREMENT



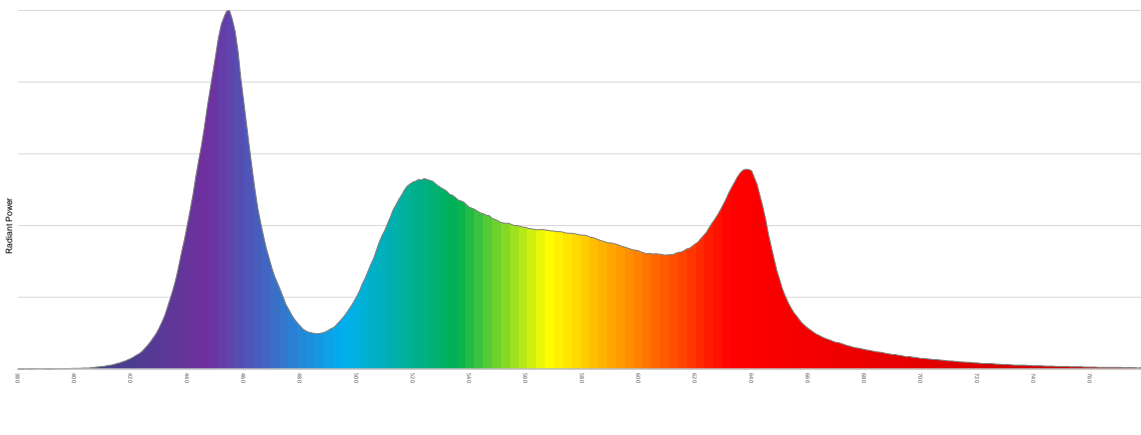
- Vertical - Horizontal

Catalog Number:	9045122814
Measured Output:	6133 lm
Measured Peak:	12878 cd
Consumed Power:	200 W
Efficacy:	30.7 Lm/Watt

Beam Angle (50%):	47 °
Field Angle (10%):	52.2 °
Cutoff Angle (3%):	53.8 °

Measurement Condition:	
Ambient Temperature:	25 ° +/- 5 ° C
AC Supply:	230V/50Hz

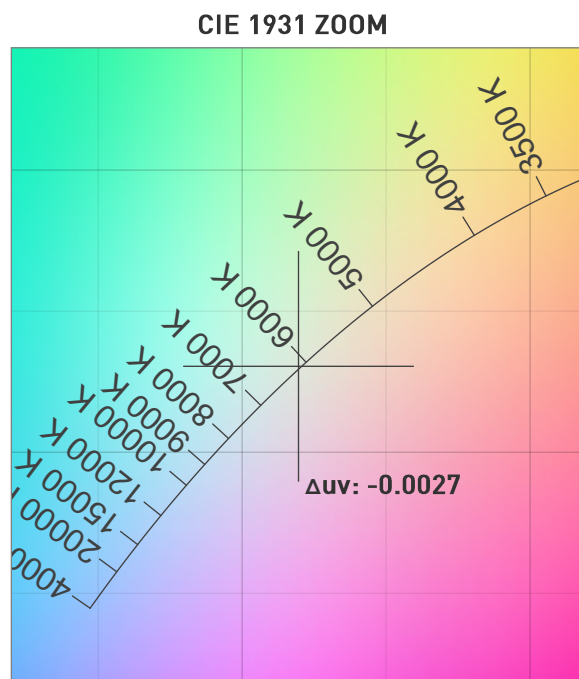
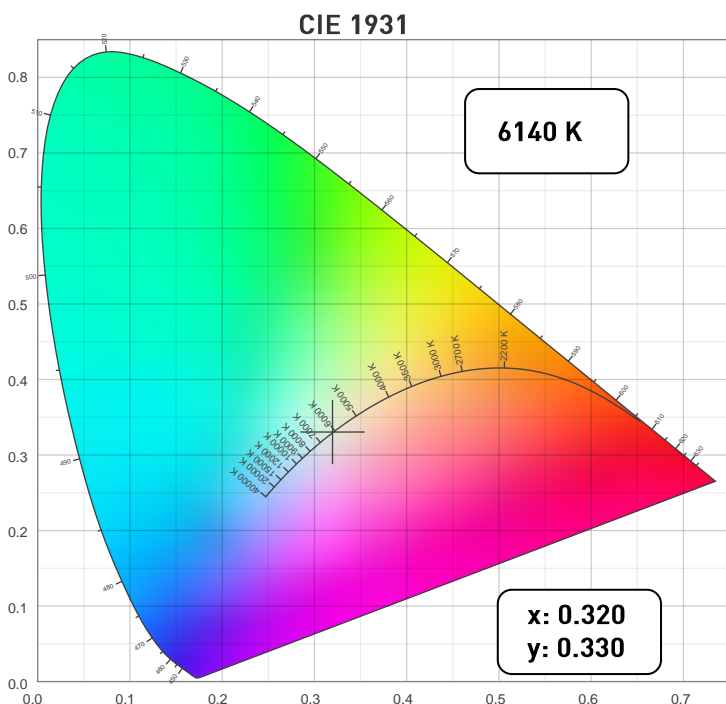
SPECTRAL DISTRIBUTION



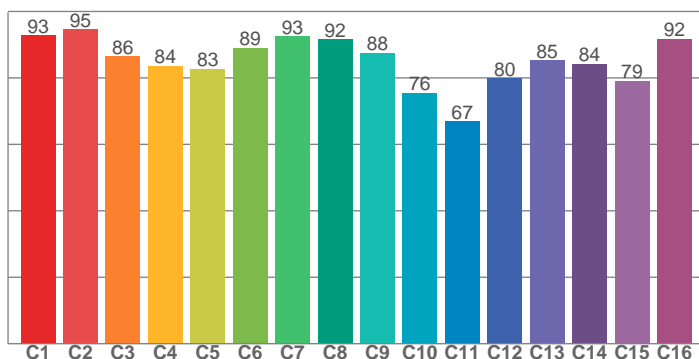
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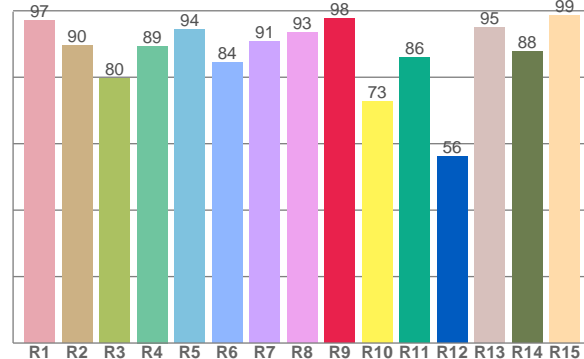
CHROMATICITY



TM30: 84.9



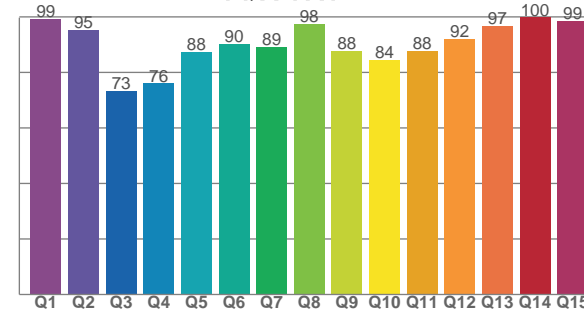
CRI: 89.8 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6140 K	89.8	97.6	84.9	104.0

CQS: 87.6



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
88	87.6	0.320	0.330	0.202	0.313	-0.0027

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TM30

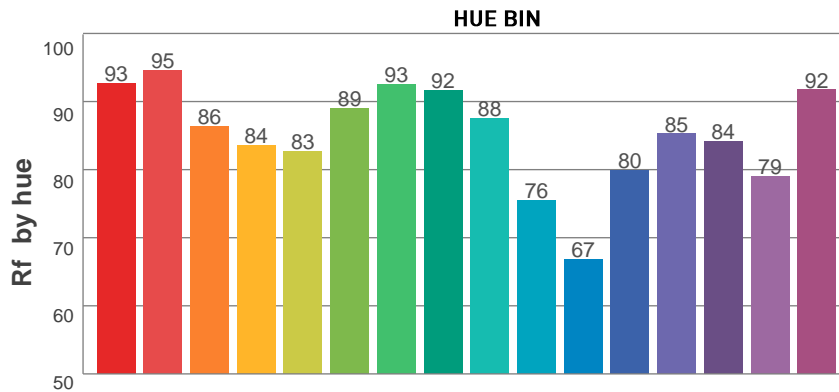
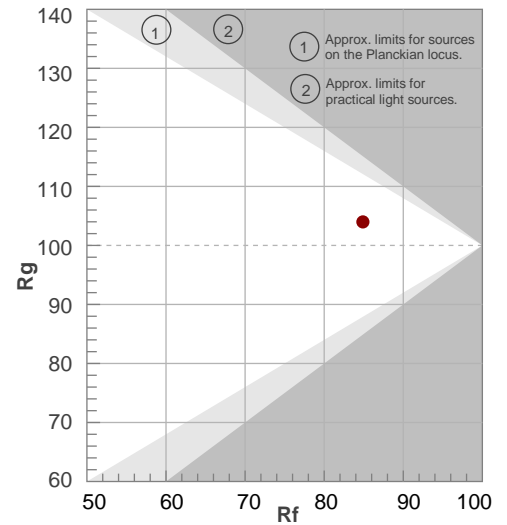
Rf 84.9

Fidelity index Rf

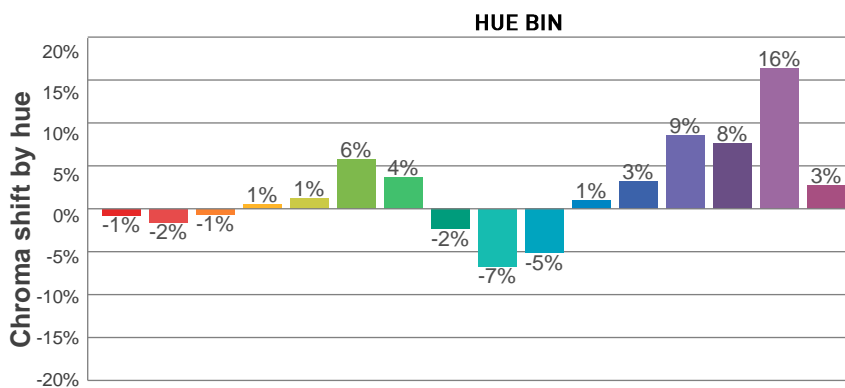
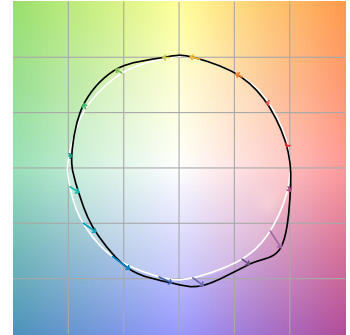
Rg 104.0

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	-1%
2	95	-2%	1%
3	86	-1%	6%
4	84	1%	9%
5	83	1%	6%
6	89	6%	3%
7	93	4%	-3%
8	92	-2%	-1%
9	88	-7%	6%
10	76	-5%	13%
11	67	1%	19%
12	80	3%	12%
13	85	9%	8%
14	84	8%	3%
15	79	16%	-7%
16	92	3%	-3%



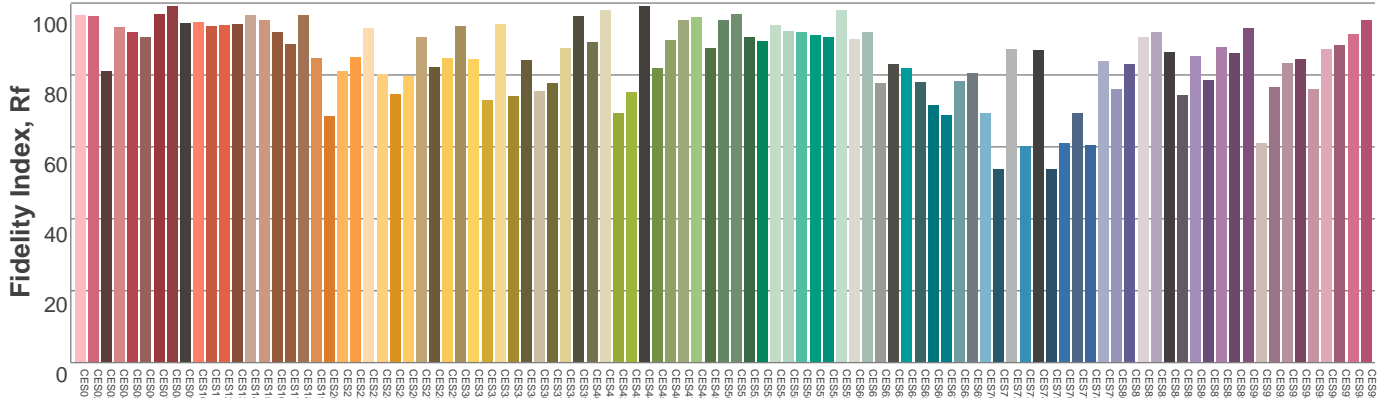
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



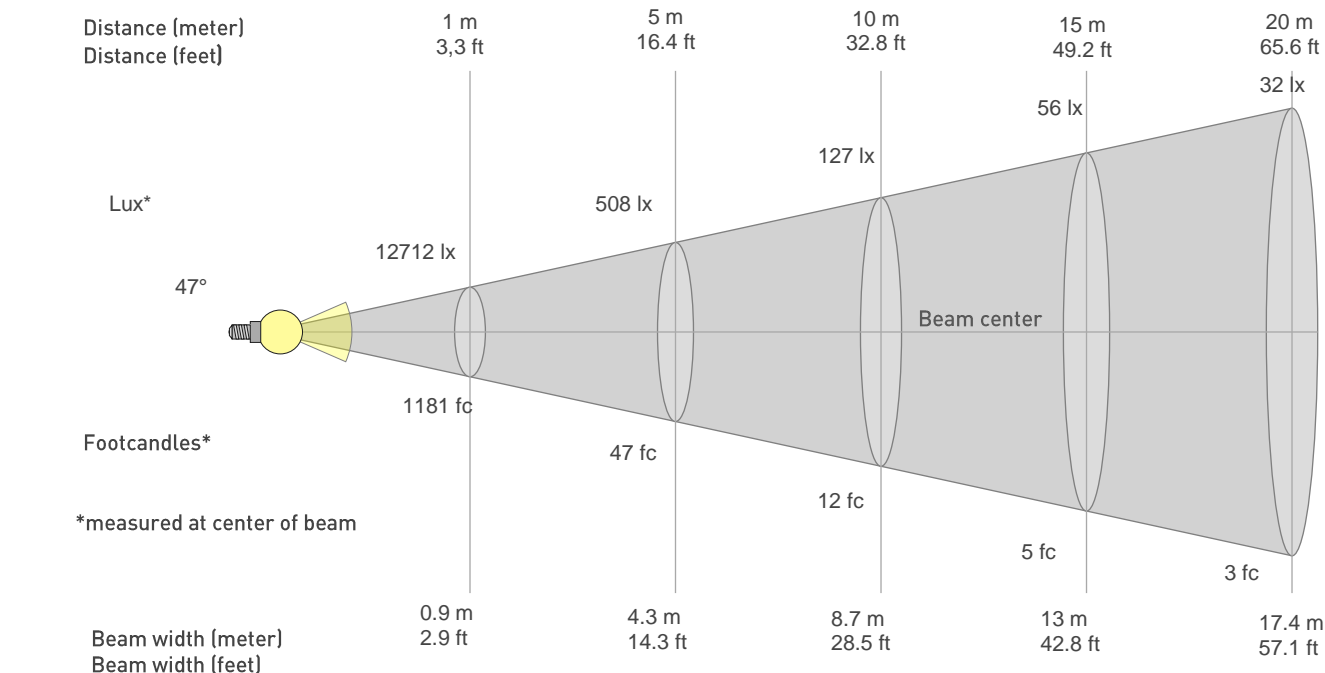
COLOR EVALUATION SAMPLE



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BEAM DETAILS

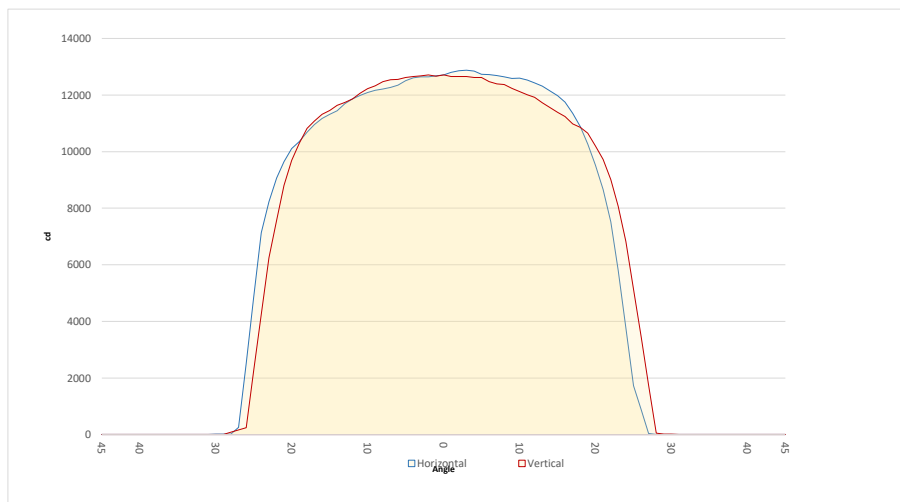


Beam width: $= 0.9 \times \text{distance}$
Illuminance: $= 12712 / (\text{distance}^2)$

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
12712lx	3178lx	1412lx	794lx	508lx	353lx	259lx	199lx	157lx	127lx	105lx	88lx	75lx	65lx	56lx	50lx	44lx	39lx	35lx	32lx
1181fc	295.2fc	131.2fc	73.8fc	47.2fc	32.8fc	24.1fc	18.5fc	14.6fc	11.8fc	9.8fc	8.2fc	7fc	6fc	5.2fc	4.6fc	4.1fc	3.6fc	3.3fc	3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
47°	52.2°	53.8°