

Photometric Report

ELP CL IP (High Output mode) – 36 degree

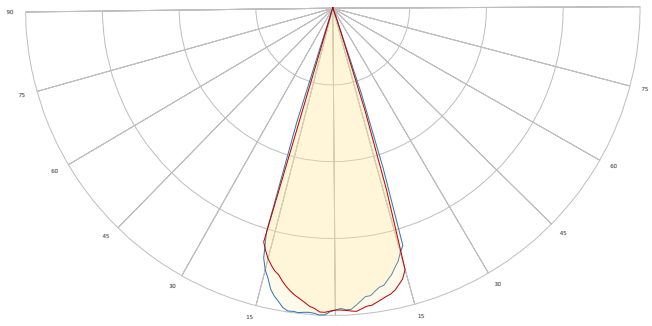
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	7500 lm
Light Engine Output:	20 klm
Efficacy:	28 Lumen/Watt
Lens Option:	36 ° Lens
Zoomrange:	36 °
CRI:	85
CQS:	N/A
TM-30 Rf:	85.5
TM-30 Rg:	110
TLCI:	85
Color Temperature:	Variable



MEASUREMENT



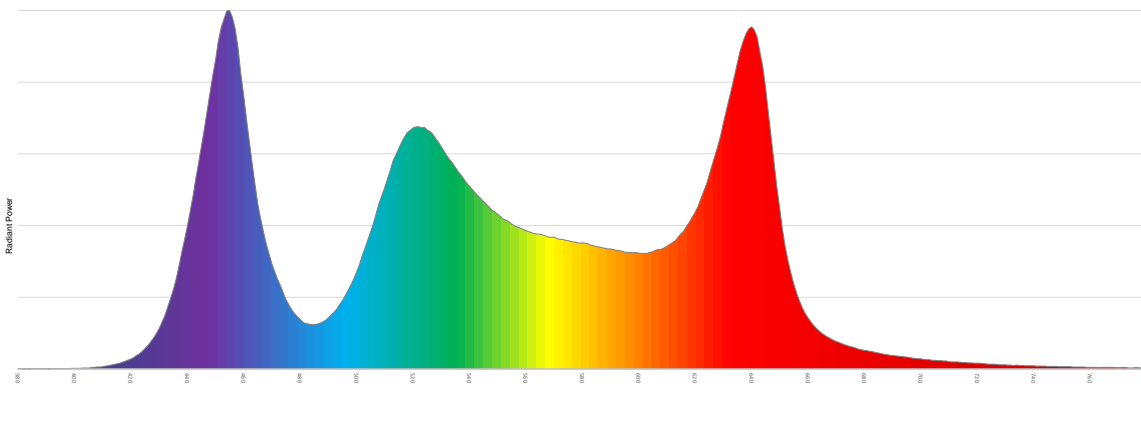
- Vertical - Horizontal

Catalog Number:	9045122814
Measured Output:	7690 lm
Measured Peak:	28318 cd
Consumed Power:	250 W
Efficacy:	30.8 Lm/Watt

Beam Angle (50%):	34.8 °
Field Angle (10%):	37.3 °
Cutoff Angle (3%):	38.4 °

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

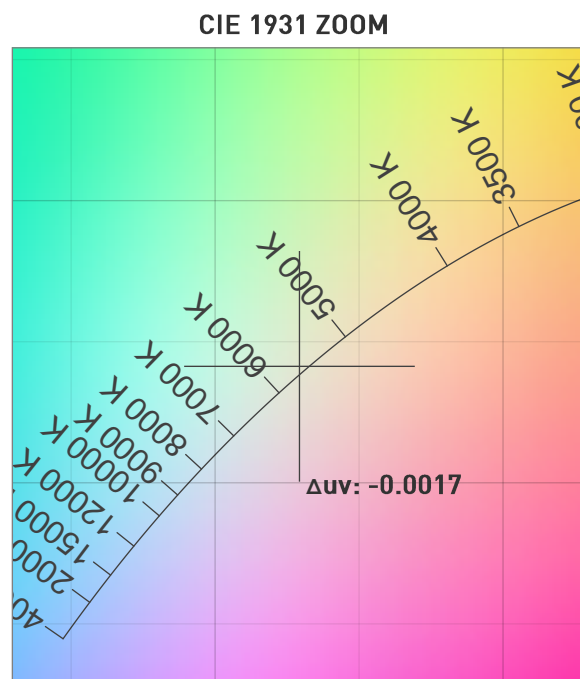
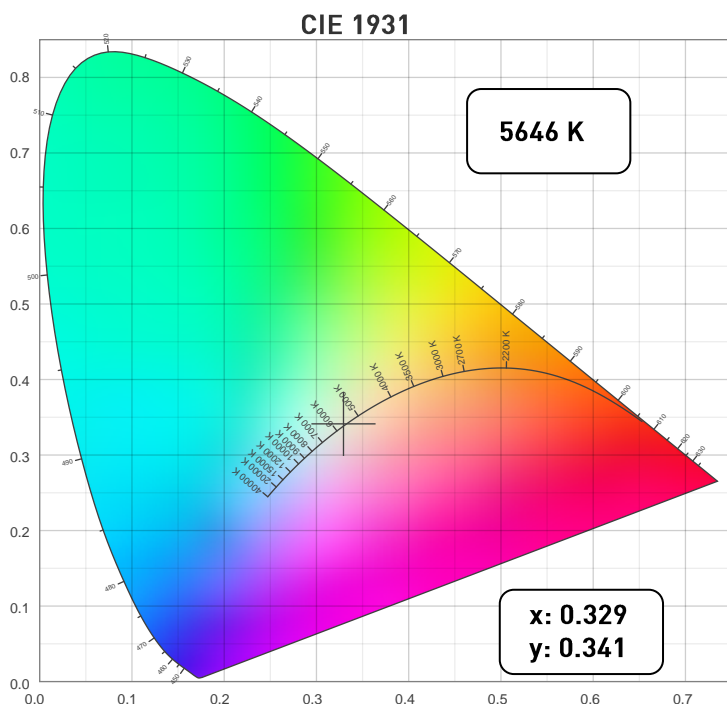
SPECTRAL DISTRIBUTION



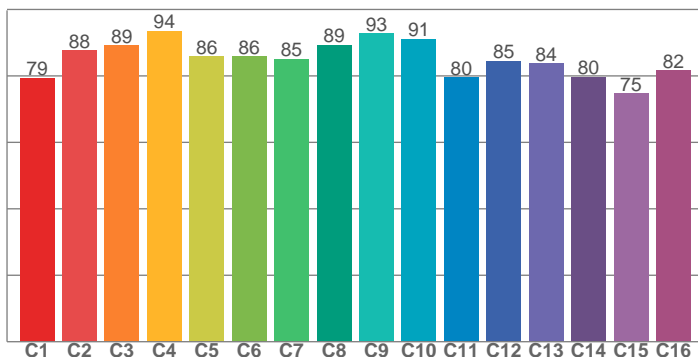
Photometric Report

ELP CL IP (High Output mode) – 36 degree

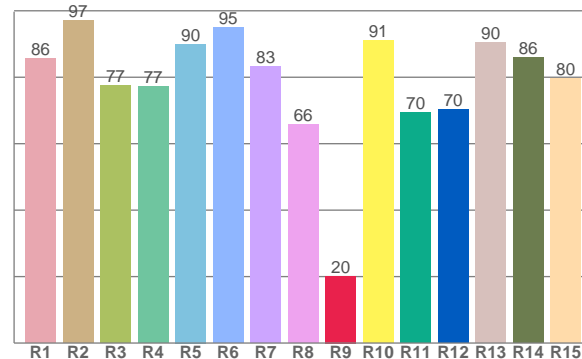
CHROMATICITY



TM30: 85.5



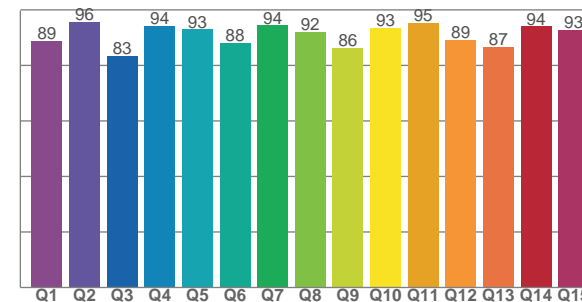
CRI: 83.9 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
5646 K	83.9	20.2	85.5	110.0

CQS: 90.4



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
85	90.4	0.329	0.341	0.205	0.318	-0.0017

Photometric Report

ELP CL IP (High Output mode) – 36 degree

TM30

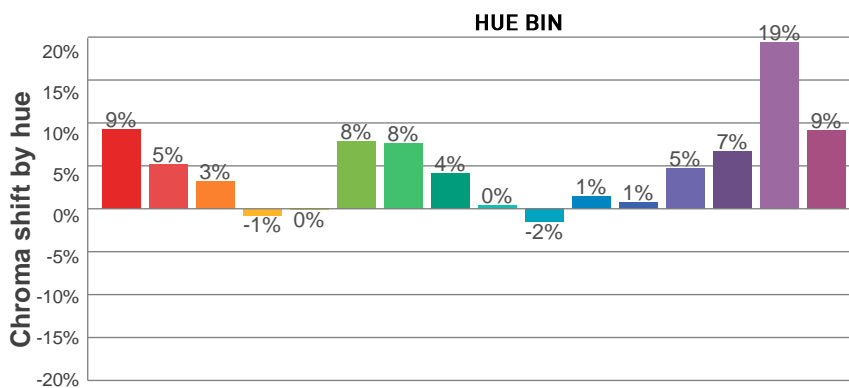
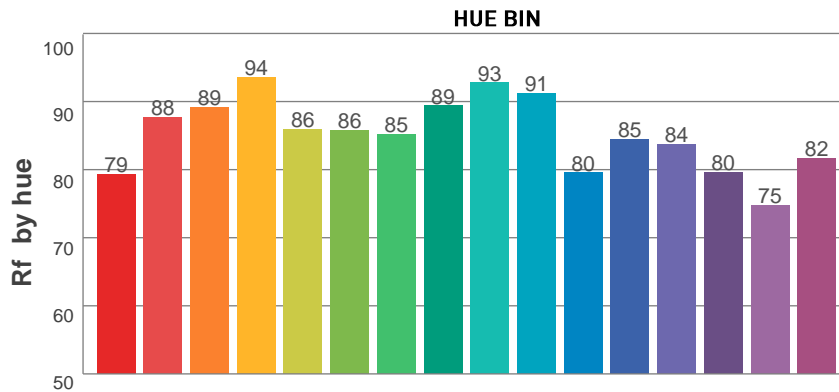
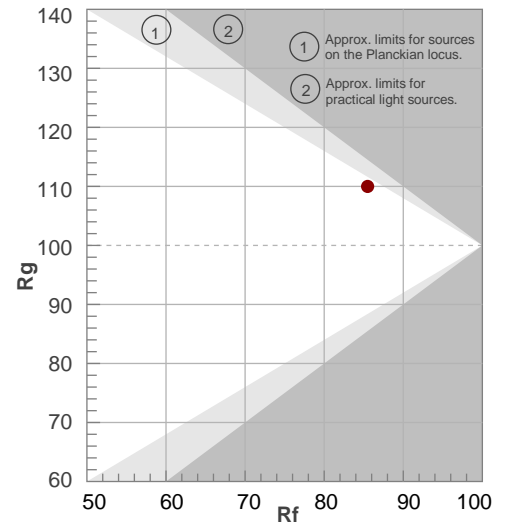
Rf 85.5

Fidelity index Rf

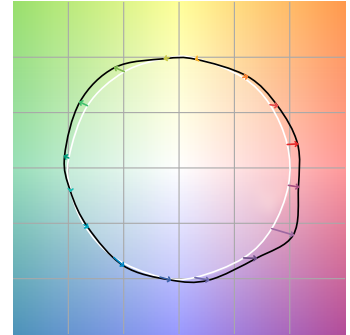
Rg 110.0

Gamut index Rg

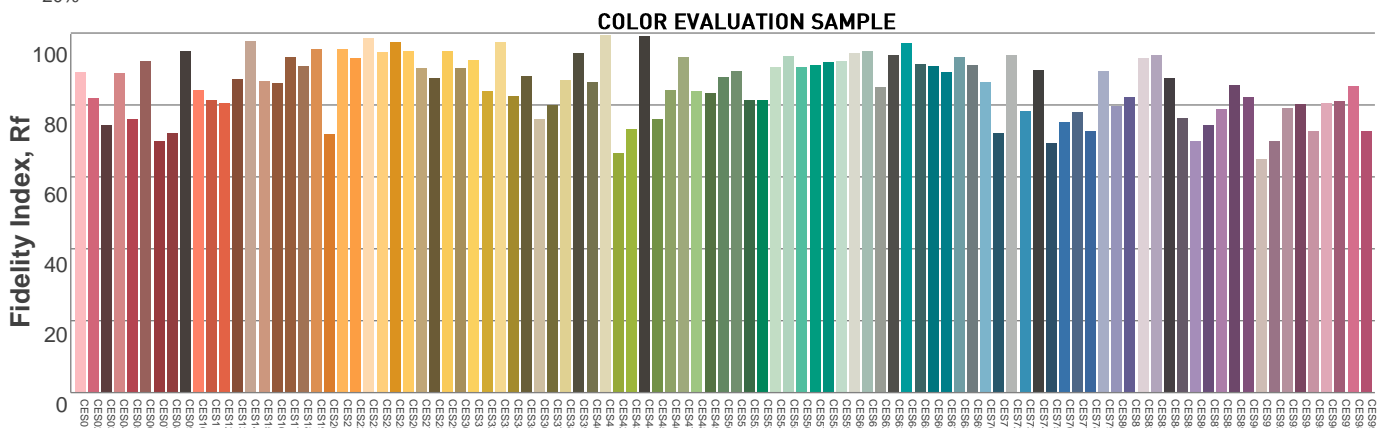
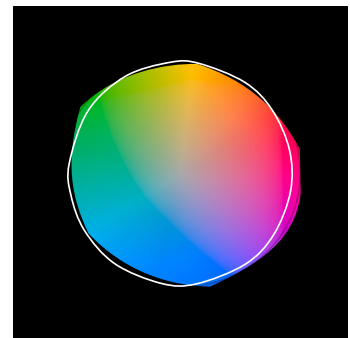
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	9%	-1%
2	88	5%	-4%
3	89	3%	-3%
4	94	-1%	1%
5	86	0%	4%
6	86	8%	5%
7	85	8%	1%
8	89	4%	-1%
9	93	0%	1%
10	91	-2%	4%
11	80	1%	11%
12	85	1%	10%
13	84	5%	12%
14	80	7%	9%
15	75	19%	6%
16	82	9%	0%



COLOR VECTOR GRAPHICS



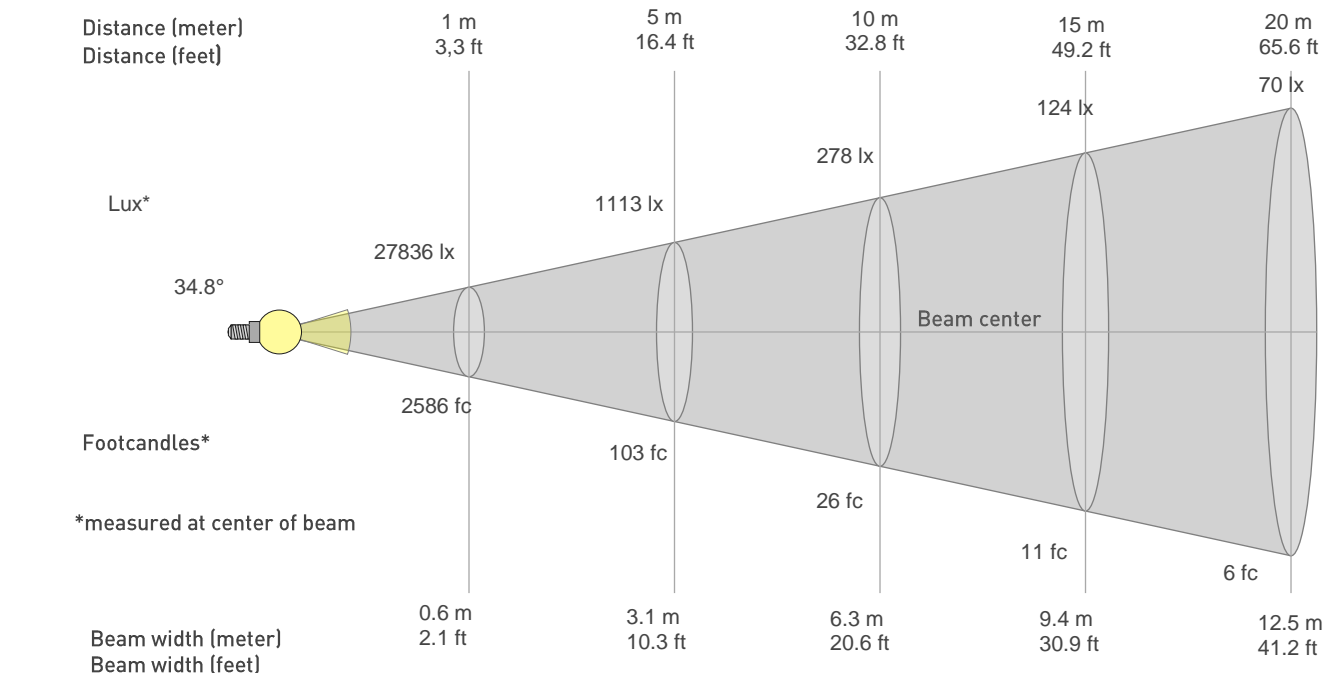
COLOR DISTORTION GRAPHICS



Photometric Report

ELP CL IP (High Output mode) – 36 degree

BEAM DETAILS

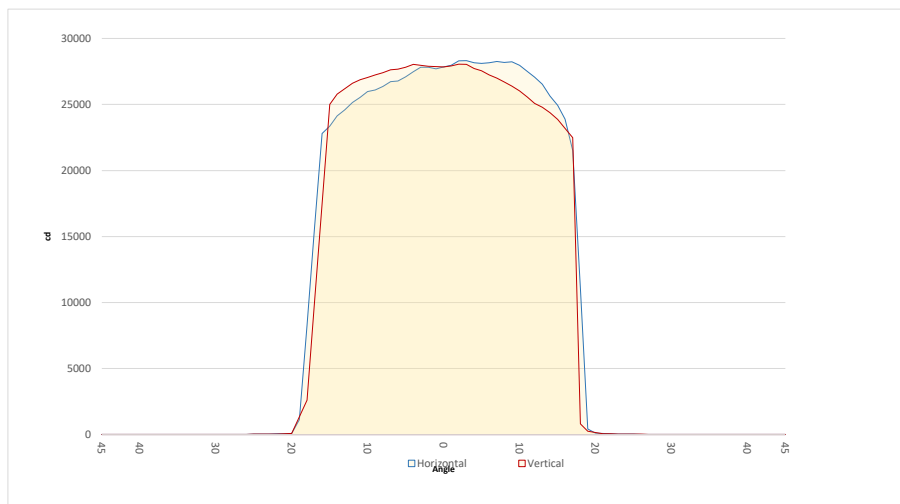


Beam width: = 0.6 * distance
Illuminance: = 27836 / (distance²)

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
27836lx	6959lx	3093lx	1740lx	1113lx	773lx	568lx	435lx	344lx	278lx	230lx	193lx	165lx	142lx	124lx	109lx	96lx	86lx	77lx	70lx
2586.1fc	646.5fc	287.3fc	161.6fc	103.4fc	71.8fc	52.8fc	40.4fc	31.9fc	25.9fc	21.4fc	18fc	15.3fc	13.2fc	11.5fc	10.1fc	8.9fc	8fc	7.2fc	6.5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
34.8°	37.3°	38.4°