

Photometric Report

ELP CL IP (High Output mode) – 50 degree

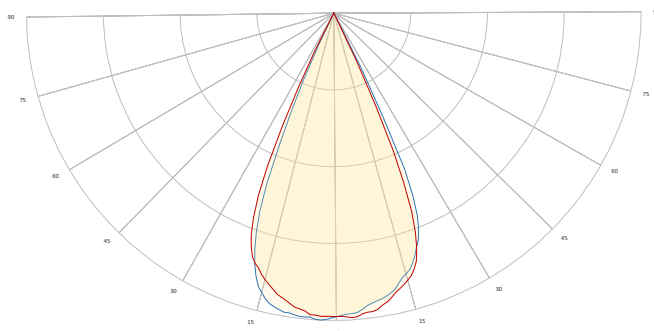
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	7500 lm
Light Engine Output:	20 klm
Efficacy:	28 Lumen/Watt
Lens Option:	50 ° Lens
Zoomrange:	50 °
CRI:	85
CQS:	N/A
TM-30 Rf:	85.5
TM-30 Rg:	110
TLCI:	85
Color Temperature:	Variable



MEASUREMENT



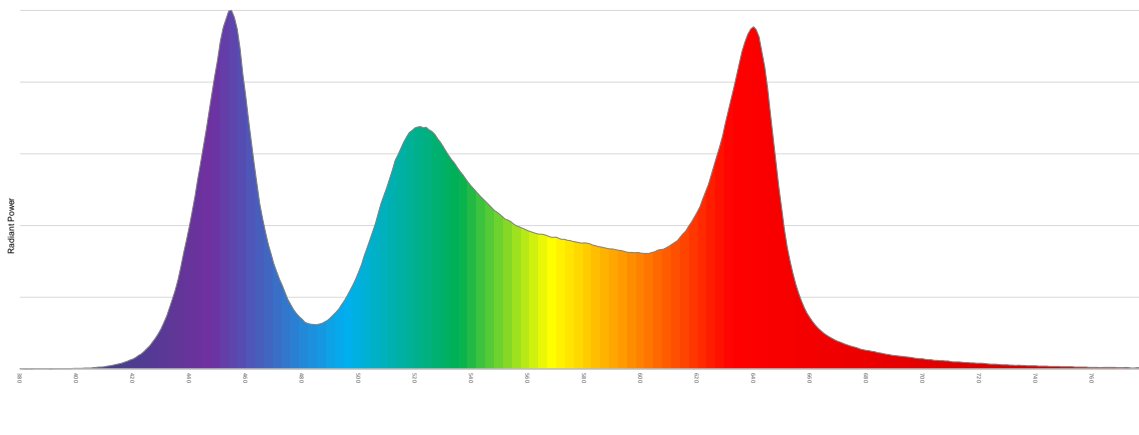
- Vertical - Horizontal

Catalog Number:	9045122814
Measured Output:	6774 lm
Measured Peak:	14081 cd
Consumed Power:	250 W
Efficacy:	27.1 Lm/Watt

Beam Angle (50%):	47.1 °
Field Angle (10%):	52.3 °
Cutoff Angle (3%):	53.6 °

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

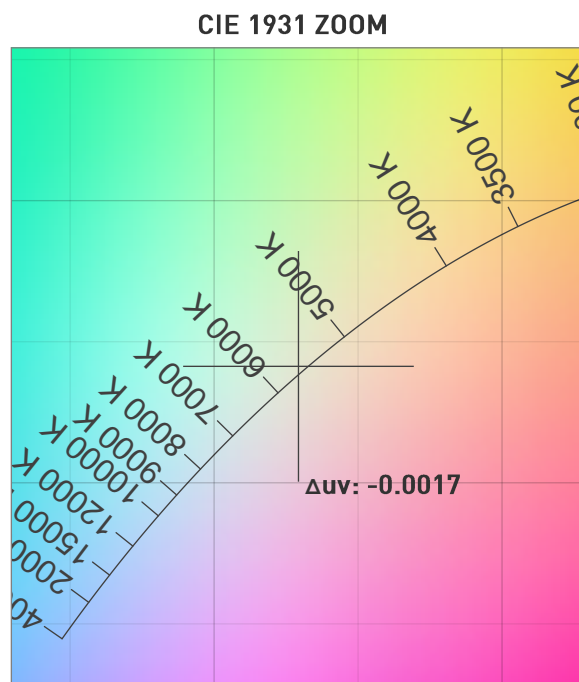
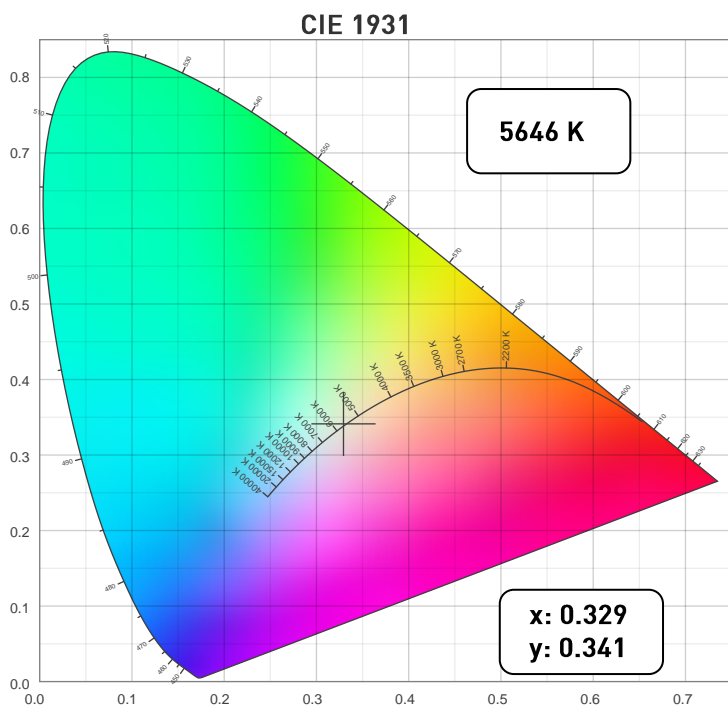
SPECTRAL DISTRIBUTION



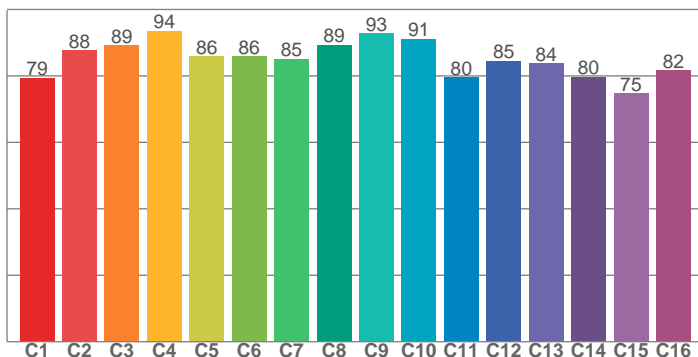
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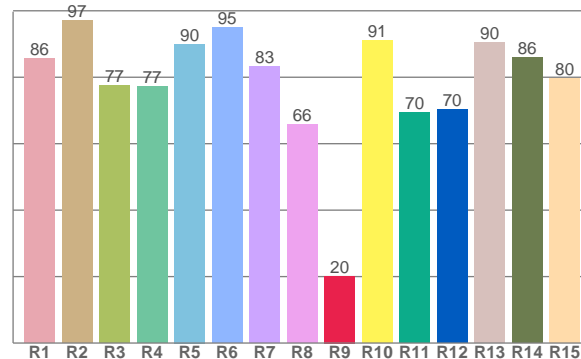
CHROMATICITY



TM30: 85.5



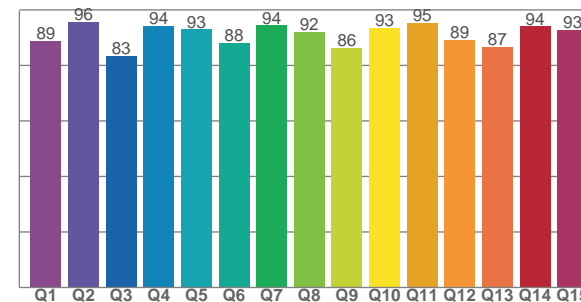
CRI: 83.9 (R1-R8)



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

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TM30

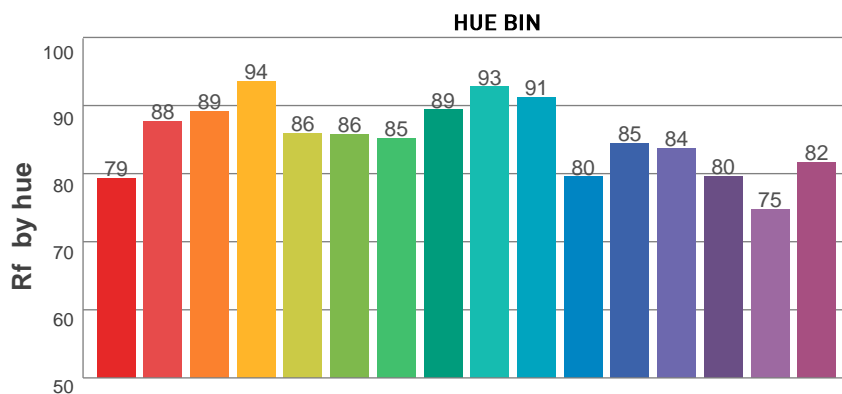
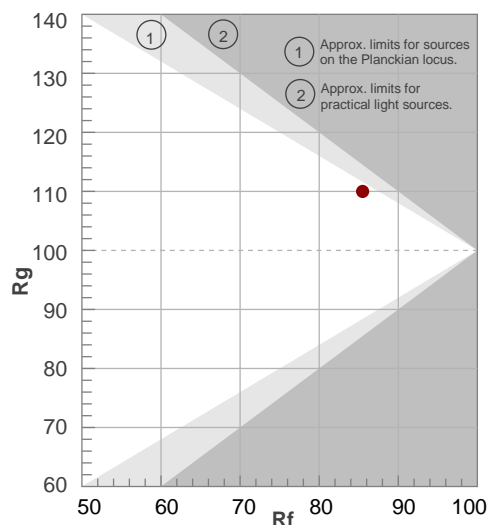
Rf 85.5

Fidelity index Rf

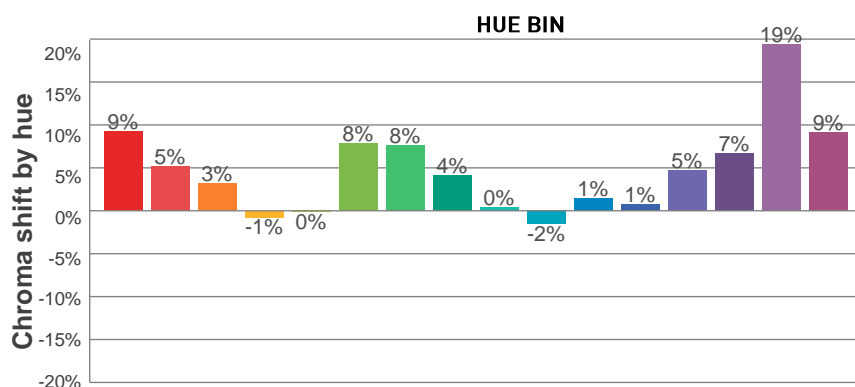
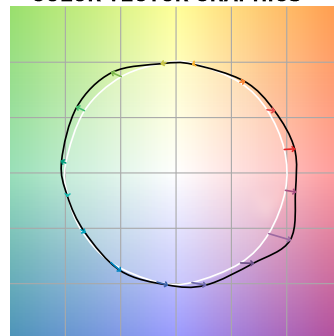
Rg 110.0

Gamut index Rg

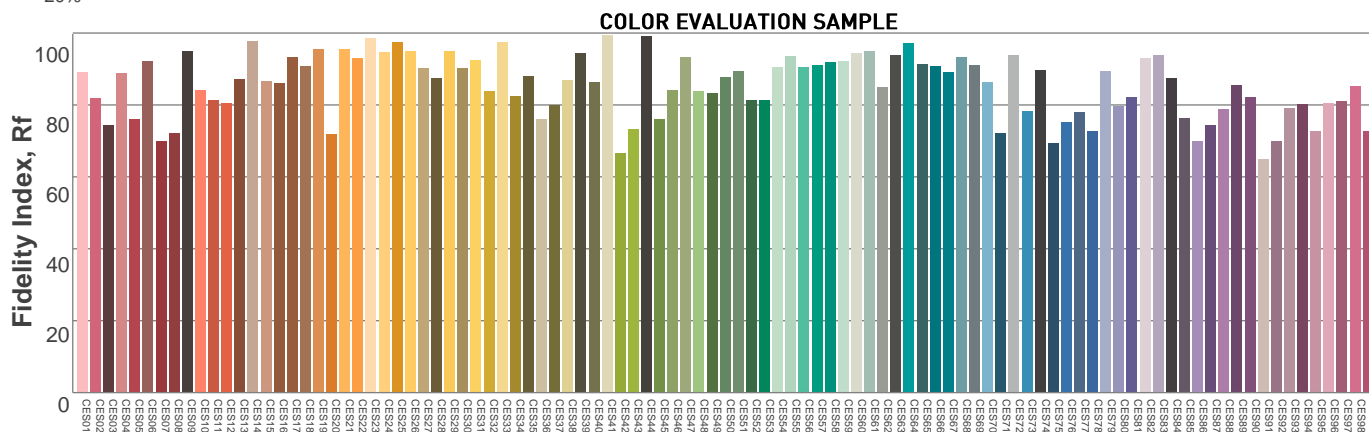
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	9%	-1%
2	88	5%	-4%
3	89	3%	-3%
4	94	-1%	1%
5	86	0%	4%
6	86	8%	5%
7	85	8%	1%
8	89	4%	-1%
9	93	0%	1%
10	91	-2%	4%
11	80	1%	11%
12	85	1%	10%
13	84	5%	12%
14	80	7%	9%
15	75	19%	6%
16	82	9%	0%



COLOR VECTOR GRAPHICS



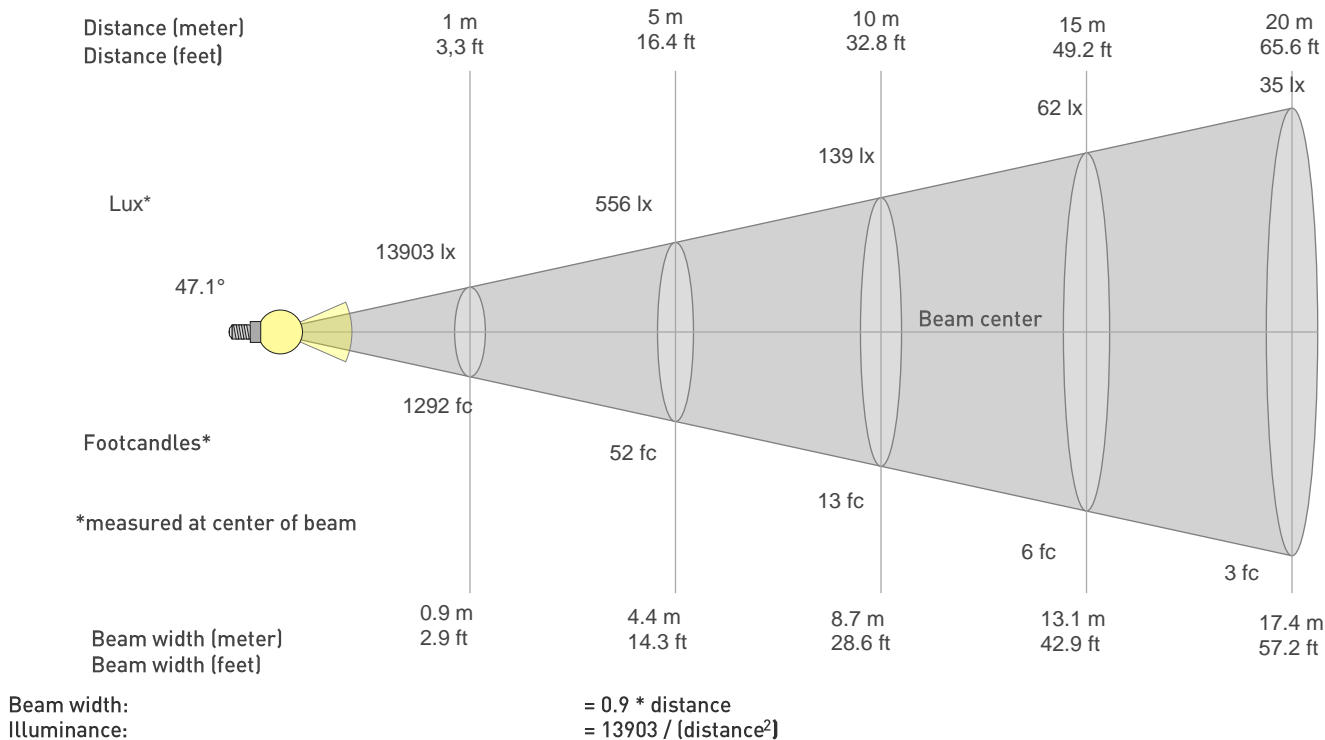
COLOR DISTORTION GRAPHICS



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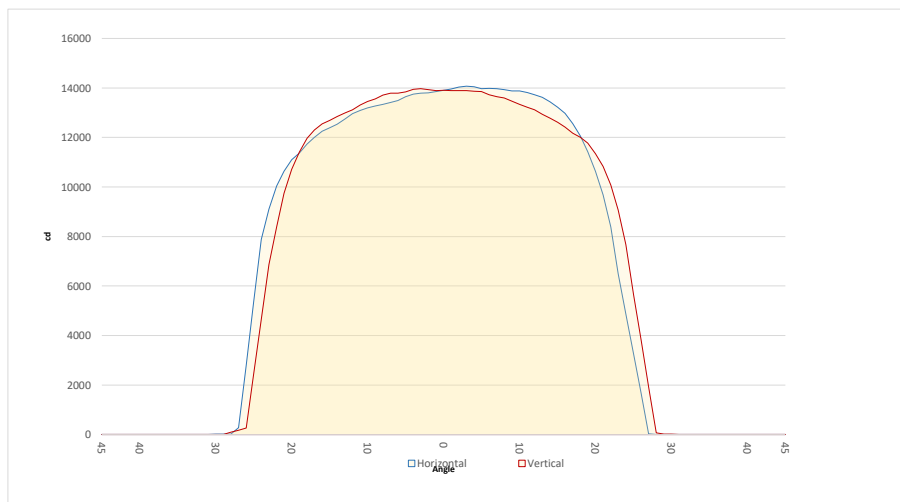
BEAM DETAILS



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
13903lx	3476lx	1545lx	869lx	556lx	386lx	284lx	217lx	172lx	139lx	115lx	97lx	82lx	71lx	62lx	54lx	48lx	43lx	39lx	35lx
1291.7fc	322.9fc	143.5fc	80.7fc	51.7fc	35.9fc	26.4fc	20.2fc	15.9fc	12.9fc	10.7fc	9fc	7.6fc	6.6fc	5.7fc	5fc	4.5fc	4fc	3.6fc	3.2fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
47.1°	52.3°	53.6°