

# Photometric Report

ELP CL IP (High Output mode) – 19 degree

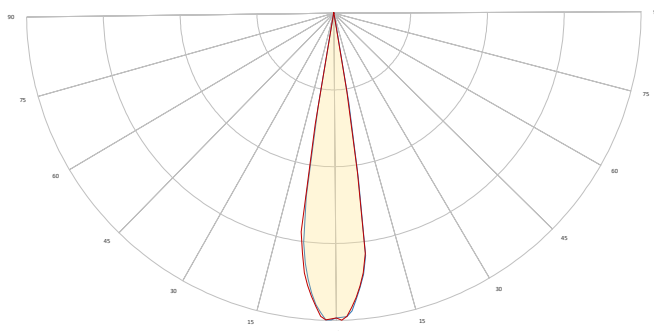
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	7500 lm
Light Engine Output:	20 klm
Efficacy:	28 Lumen/Watt
Lens Option:	19° Lens
Zoomrange:	19°
CRI:	85
CQS:	N/A
TM-30 Rf:	85.5
TM-30 Rg:	110
TLCI:	85
Color Temperature:	Variable



## MEASUREMENT



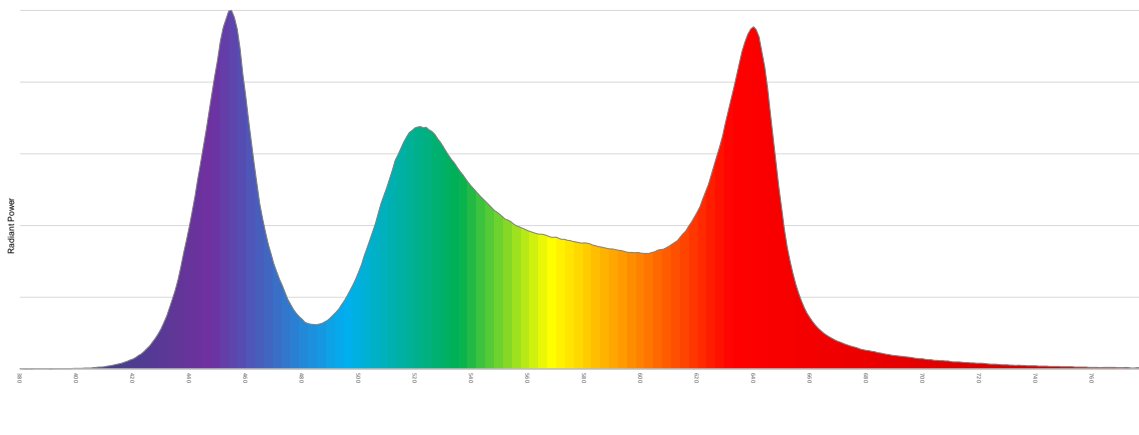
- Vertical - Horizontal

Catalog Number:	9045122814
Measured Output:	6275 lm
Measured Peak:	89122 cd
Consumed Power:	250 W
Efficacy:	25.1 Lm/Watt

Beam Angle (50%):	17.6°
Field Angle (10%):	20.5°
Cutoff Angle (3%):	21.3°

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

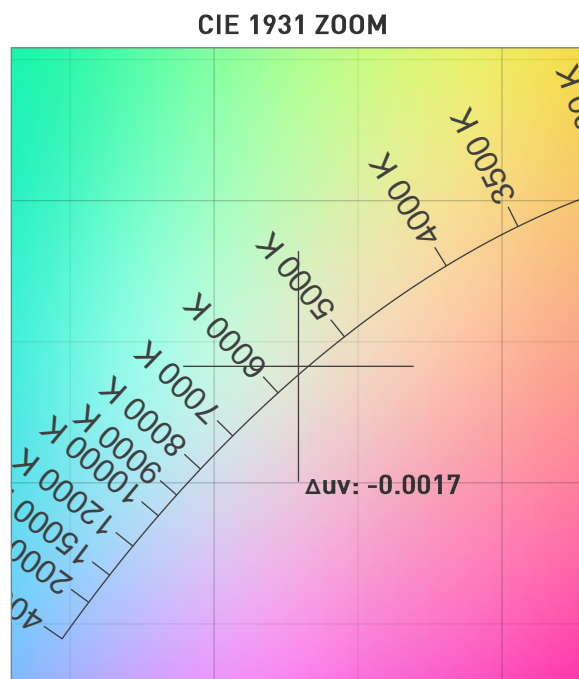
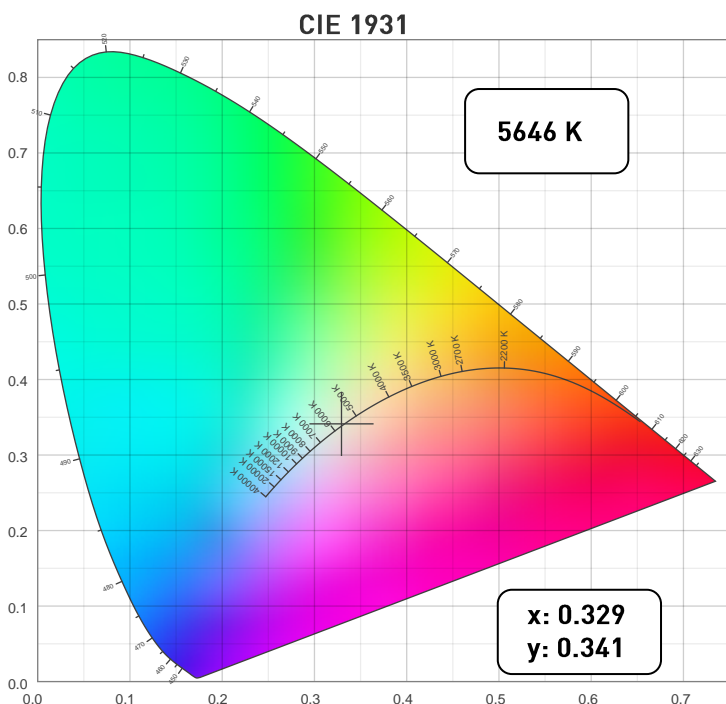
SPECTRAL DISTRIBUTION



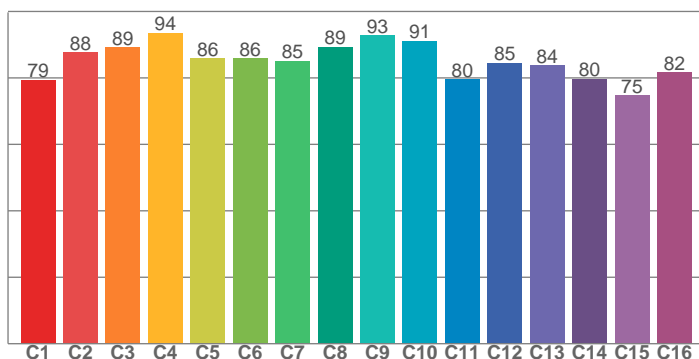
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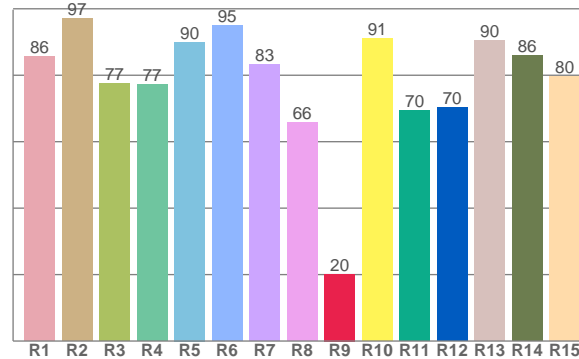
## CHROMATICITY



TM30: 85.5



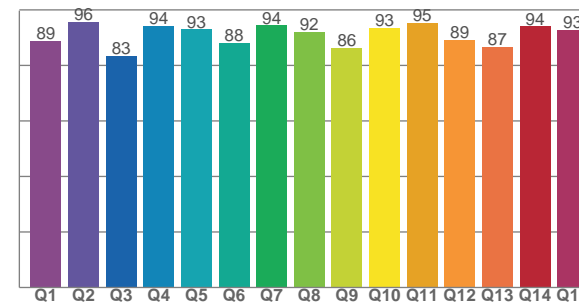
CRI: 83.9 (R1-R8)



## 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

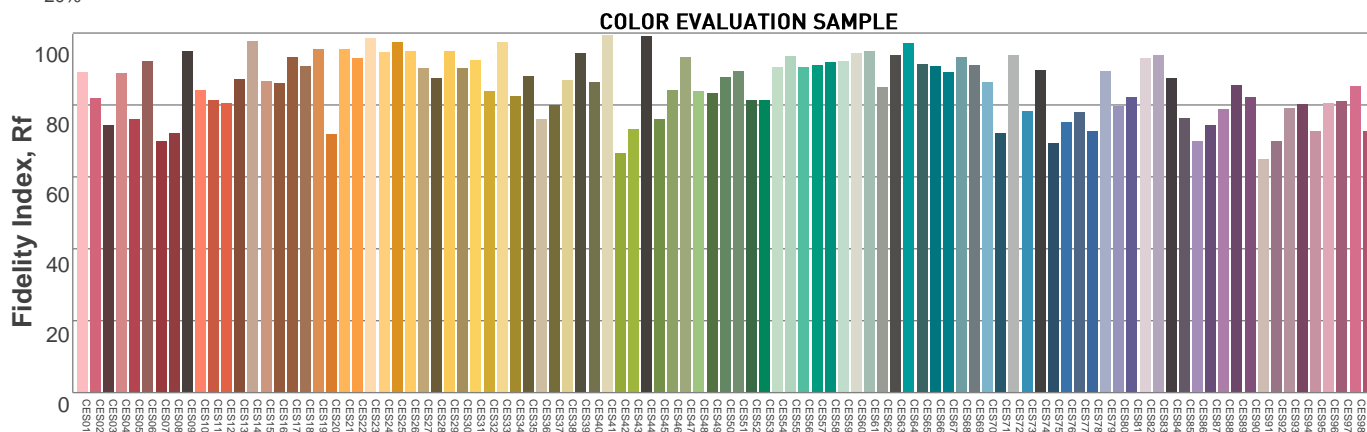
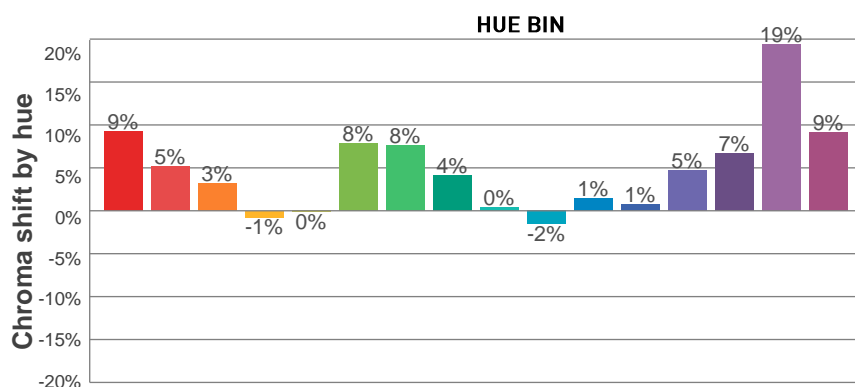
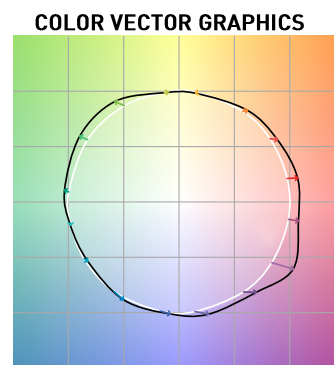
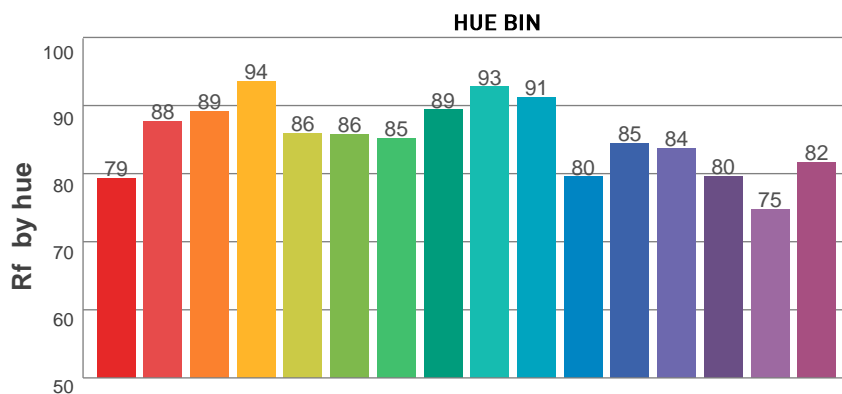
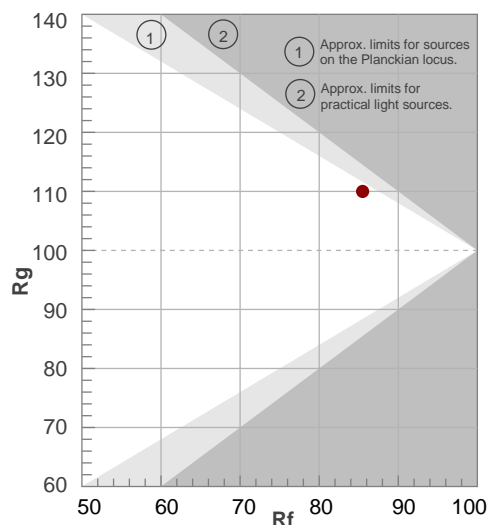
Rf 85.5

Fidelity index Rf

Rg 110.0

Gamut index Rg

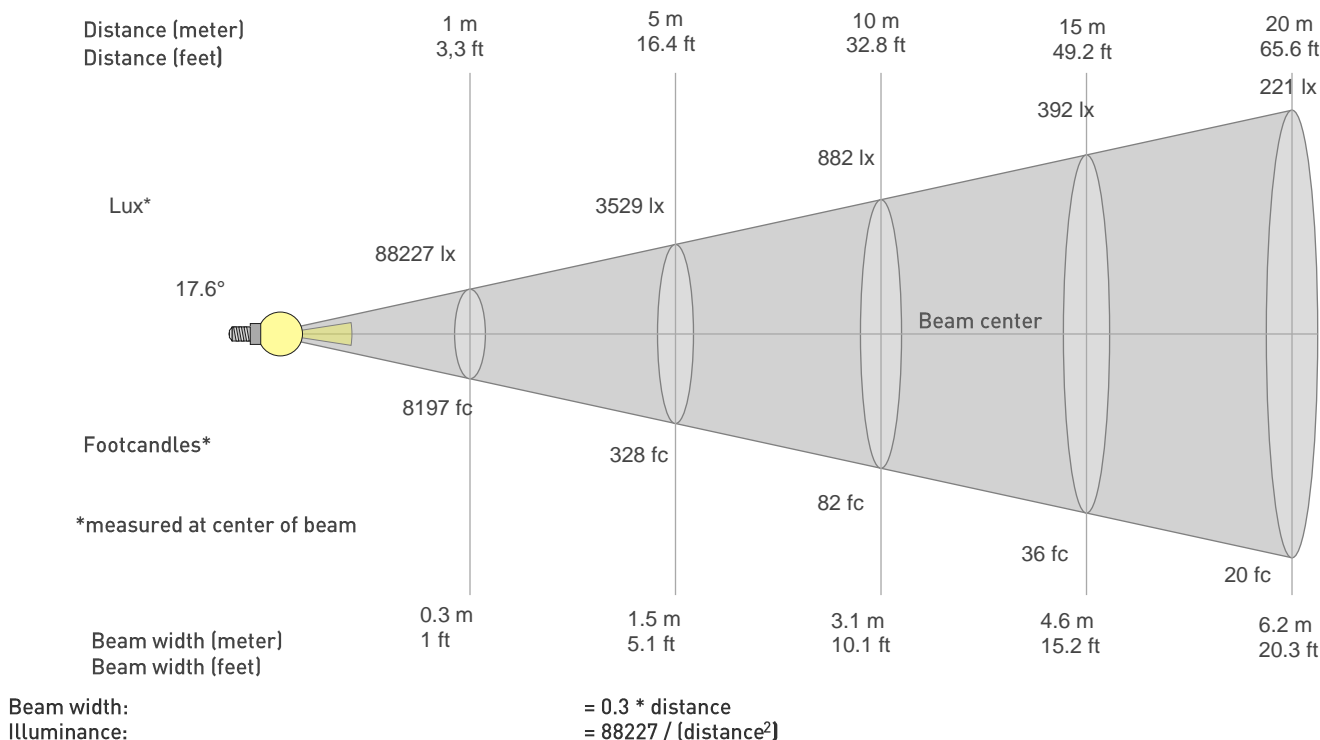
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	9%	-1%
2	88	5%	-4%
3	89	3%	-3%
4	94	-1%	1%
5	86	0%	4%
6	86	8%	5%
7	85	8%	1%
8	89	4%	-1%
9	93	0%	1%
10	91	-2%	4%
11	80	1%	11%
12	85	1%	10%
13	84	5%	12%
14	80	7%	9%
15	75	19%	6%
16	82	9%	0%



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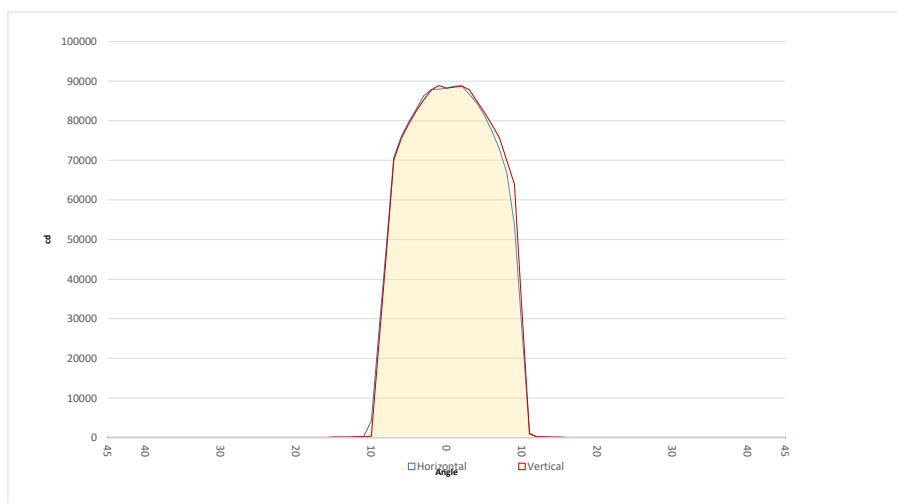
## BEAM DETAILS



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
88227lx	22057lx	9803lx	5514lx	3529lx	2451lx	1801lx	1379lx	1089lx	882lx	729lx	613lx	522lx	450lx	392lx	345lx	305lx	272lx	244lx	221lx
8196.6fc	2049.1fc	910.7fc	512.3fc	327.9fc	227.7fc	167.3fc	128.1fc	101.2fc	82fc	67.7fc	56.9fc	48.5fc	41.8fc	36.4fc	32fc	28.4fc	25.3fc	22.7fc	20.5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
17.6°	20.5°	21.3°