

# Photometric Report

ELP WW IP – 50 degree

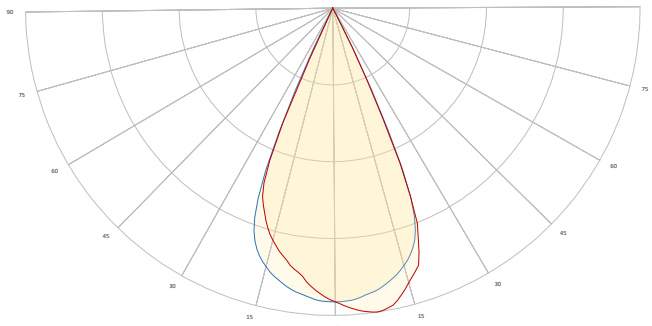
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	7500 lm
Light Engine Output:	16 klm
Efficacy:	28 Lumen/Watt
Lens Option:	50 ° Lens
Zoomrange:	50 °
CRI:	97
CQS:	N/A
TM-30 Rf:	92.1
TM-30 Rg:	100.6
TLCI:	95
Color Temperature:	3000K



## MEASUREMENT



- Vertical - Horizontal

Catalog Number:	9045122813
Measured Output:	7432 lm
Measured Peak:	15944 cd
Consumed Power:	250 W
Efficacy:	29.7 Lm/Watt

Beam Angle (50%):	47.2 °
Field Angle (10%):	52.7 °
Cutoff Angle (3%):	53.8 °

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

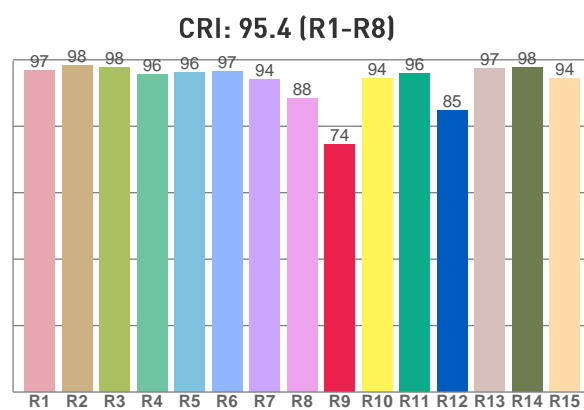
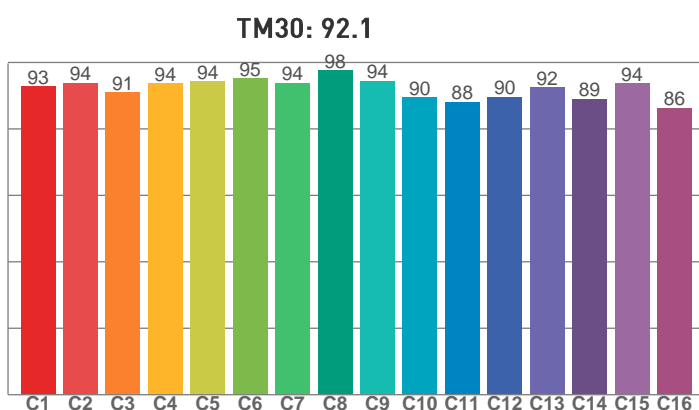
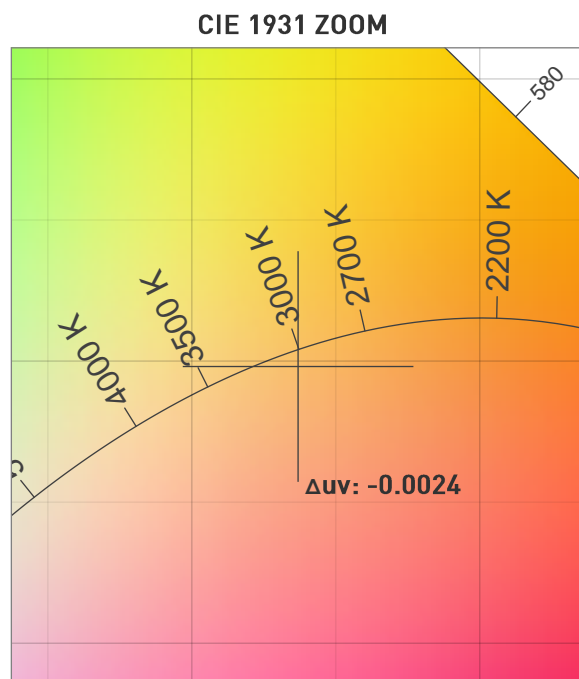
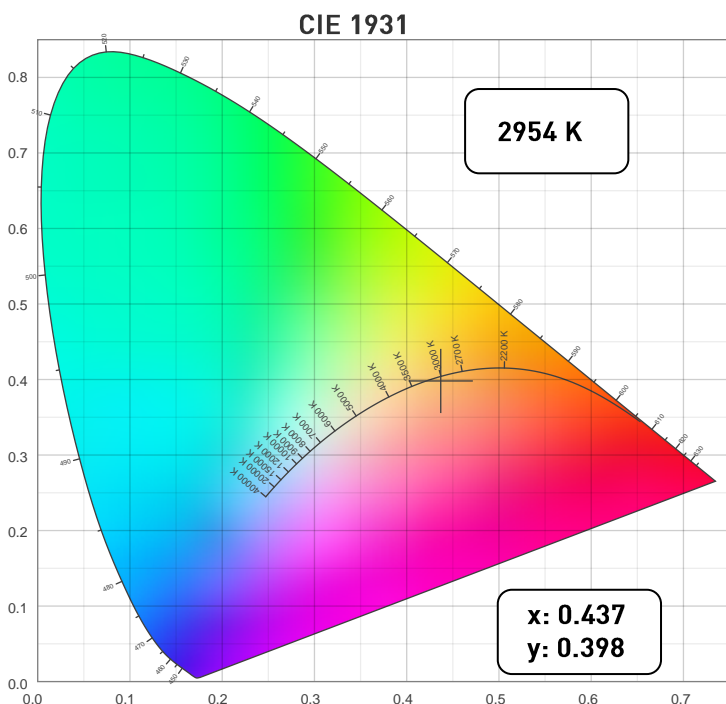
SPECTRAL DISTRIBUTION



# Photometric Report

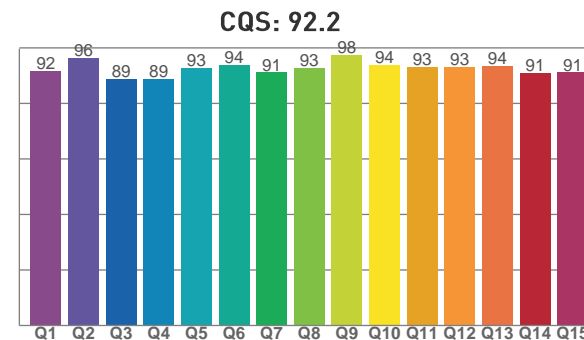
ELP WW IP – 50 degree

## CHROMATICITY



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
2954 K	95.4	74.5	92.1	100.6



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
95	92.2	0.437	0.398	0.253	0.346	-0.0024

# Photometric Report

ELP WW IP – 50 degree

TM30

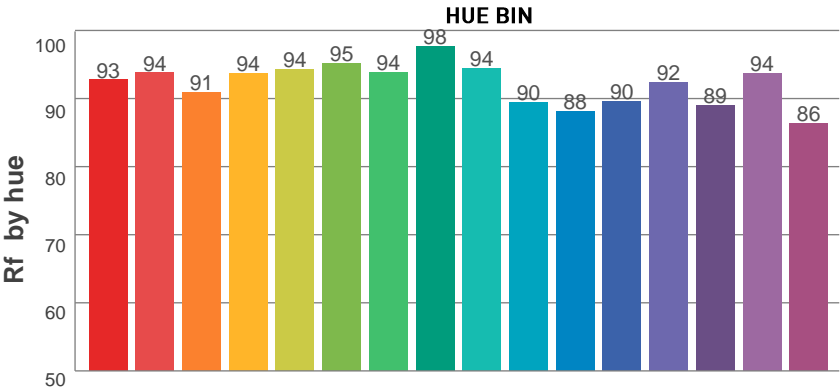
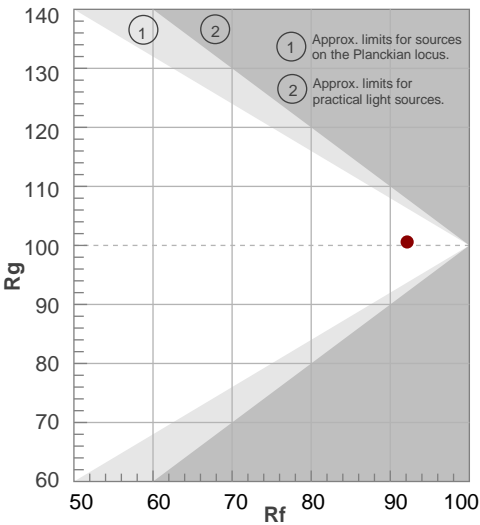
Rf 92.1

Fidelity index Rf

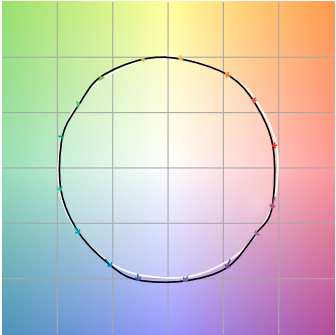
Rg 100.6

Gamut index Rg

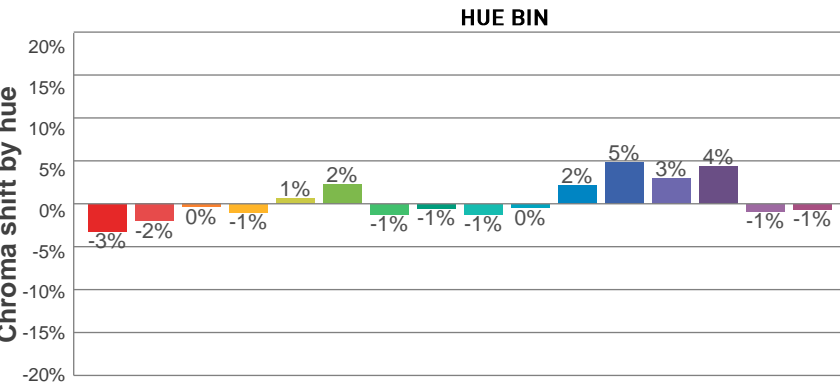
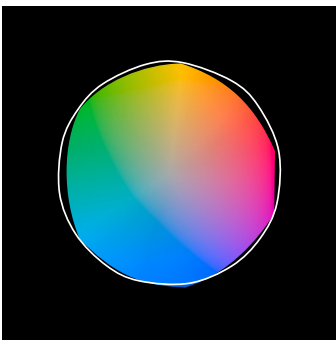
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	0%
2	94	-2%	2%
3	91	0%	4%
4	94	-1%	1%
5	94	1%	2%
6	95	2%	0%
7	94	-1%	-1%
8	98	-1%	-1%
9	94	-1%	3%
10	90	0%	6%
11	88	2%	8%
12	90	5%	1%
13	92	3%	-4%
14	89	4%	-6%
15	94	-1%	-3%
16	86	-1%	-10%



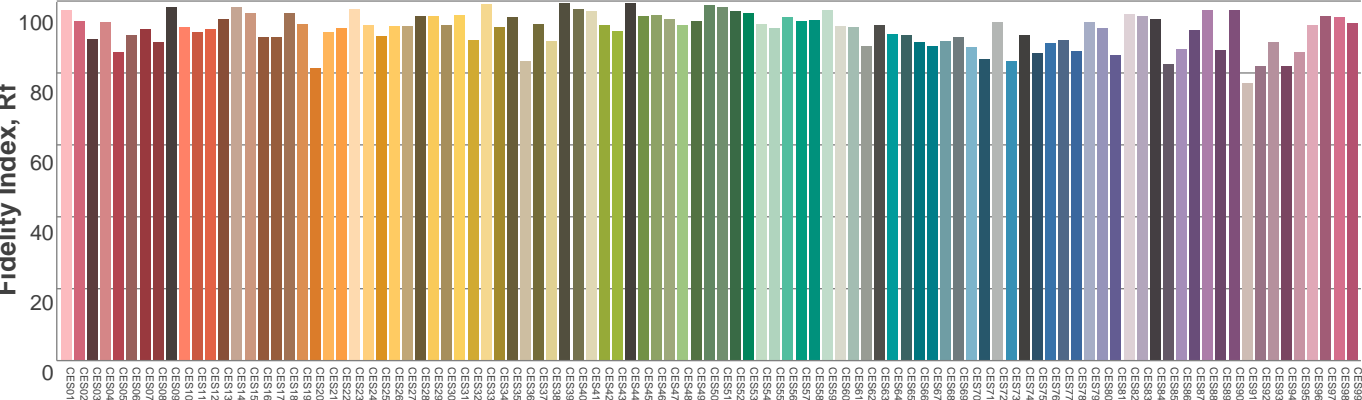
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



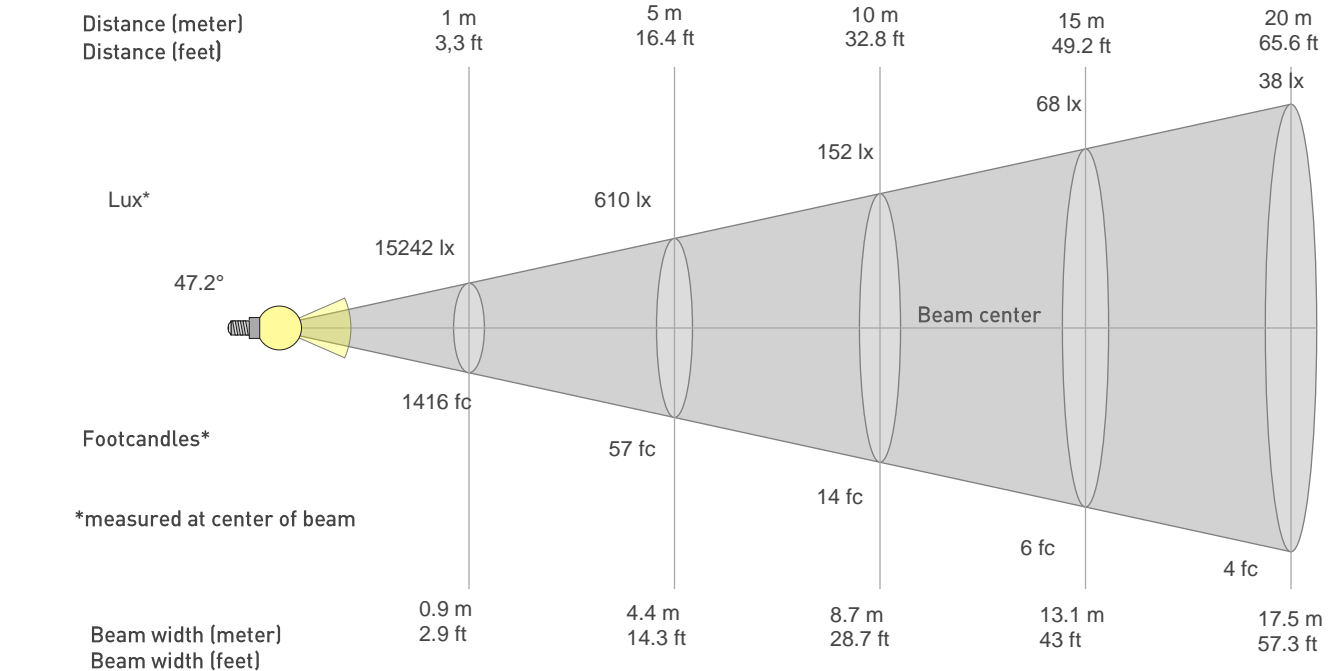
COLOR EVALUATION SAMPLE



# Photometric Report

ELP WW IP – 50 degree

## BEAM DETAILS

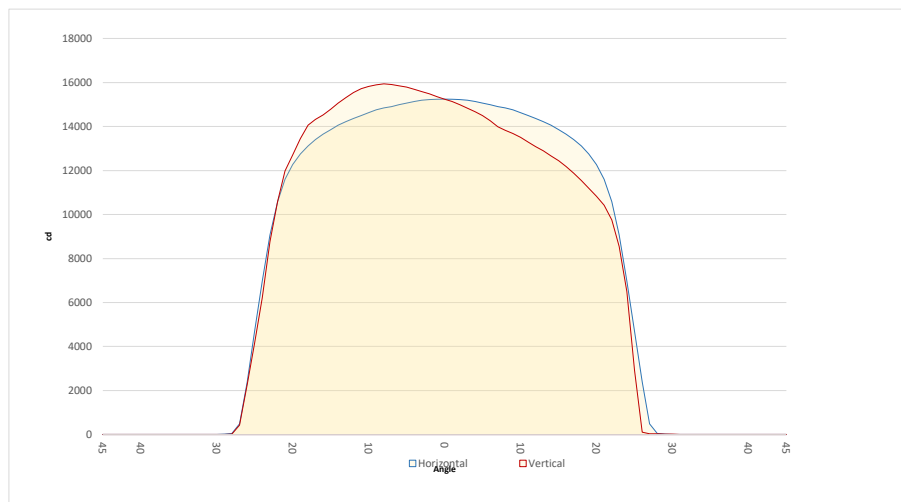


Beam width:  $= 0.9 \times \text{distance}$   
Illuminance:  $= 15242 / (\text{distance}^2)$

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
15242lx	3811lx	1694lx	953lx	610lx	423lx	311lx	238lx	188lx	152lx	126lx	106lx	90lx	78lx	68lx	60lx	53lx	47lx	42lx	38lx
1416fc	354fc	157.3fc	88.5fc	56.6fc	39.3fc	28.9fc	22.1fc	17.5fc	14.2fc	11.7fc	9.8fc	8.4fc	7.2fc	6.3fc	5.5fc	4.9fc	4.4fc	3.9fc	3.5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
47.2°	52.7°	53.8°