

Photometric Report

ELP WW IP – 36 degree

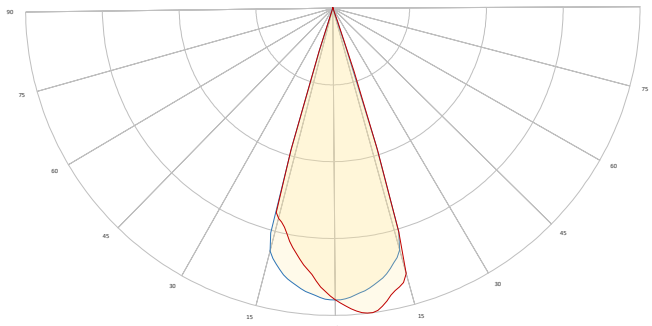
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	7500 lm
Light Engine Output:	16 klm
Efficacy:	28 Lumen/Watt
Lens Option:	36 ° Lens
Zoomrange:	36 °
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:	8124 lm
Measured Peak:	33055 cd
Consumed Power:	250 W
Efficacy:	32.5 Lm/Watt

Beam Angle (50%):	34 °
Field Angle (10%):	36.4 °
Cutoff Angle (3%):	37.6 °

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

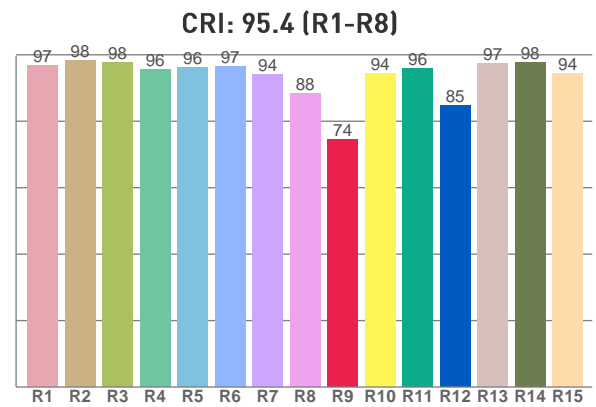
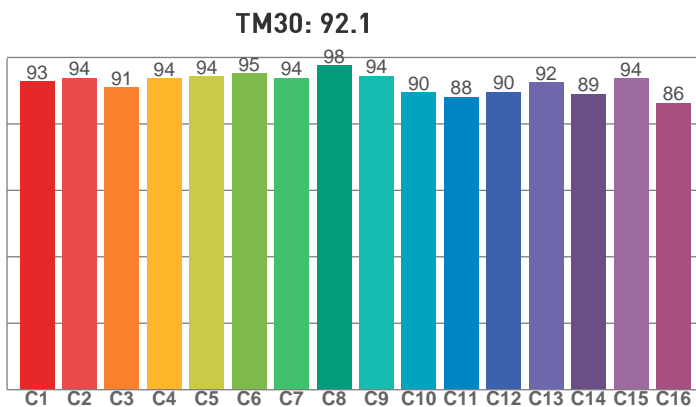
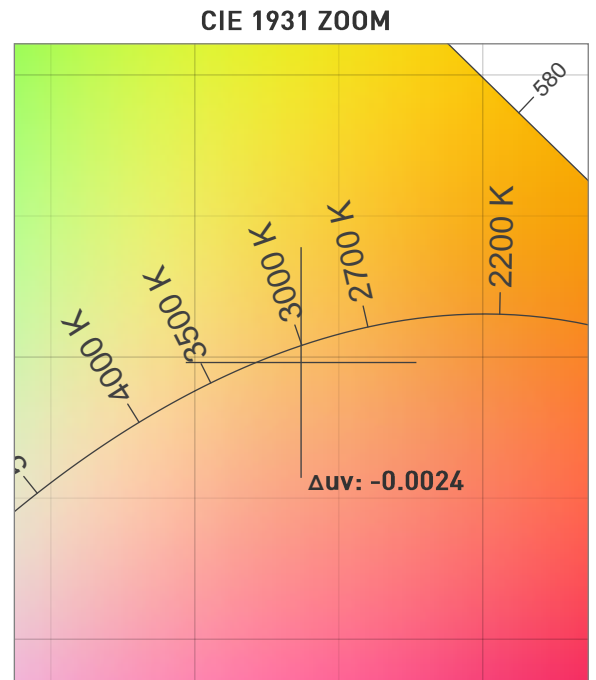
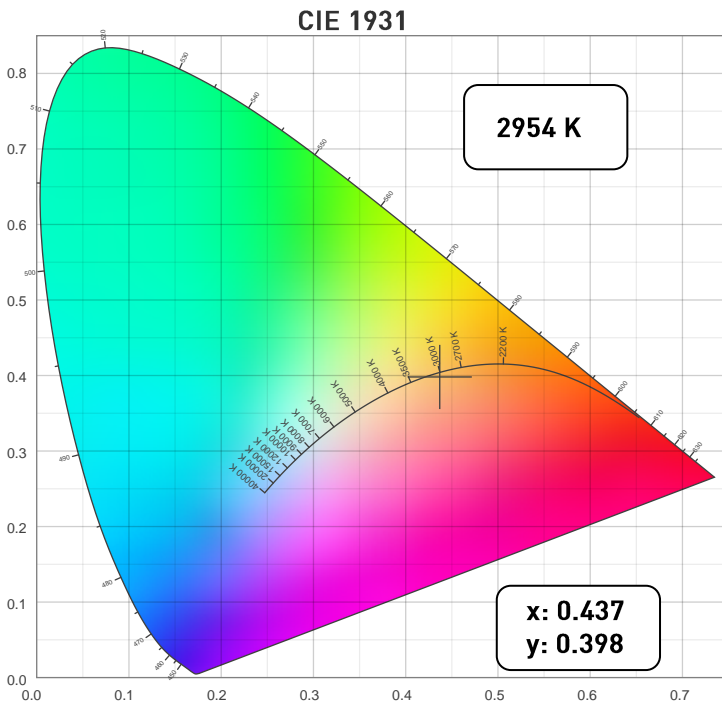
SPECTRAL DISTRIBUTION



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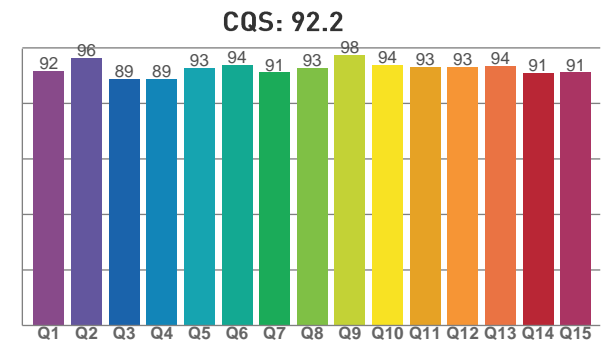
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CHROMATICITY



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

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TM30

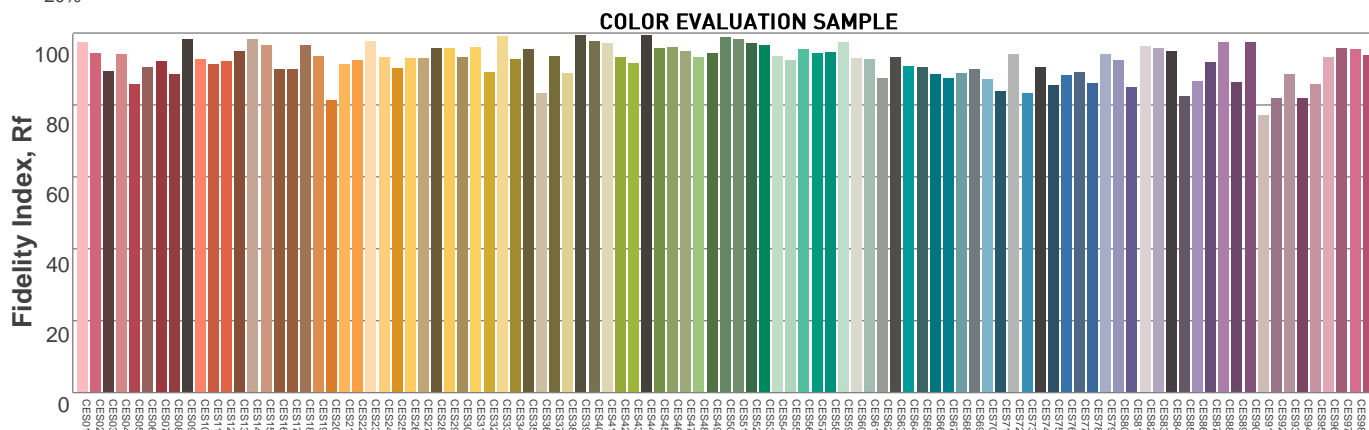
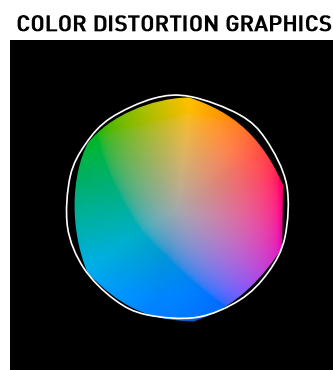
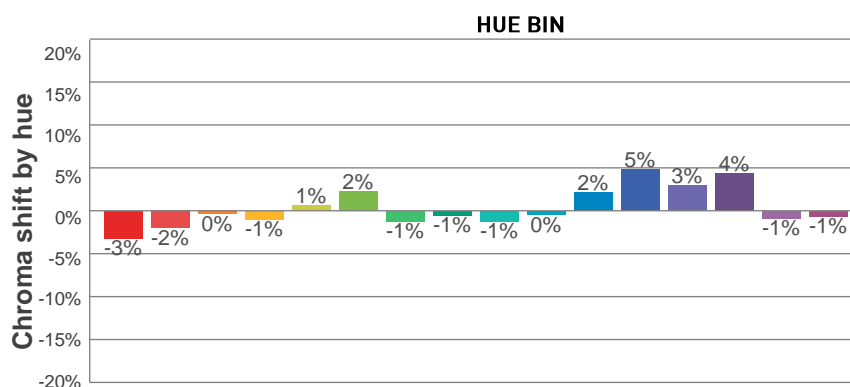
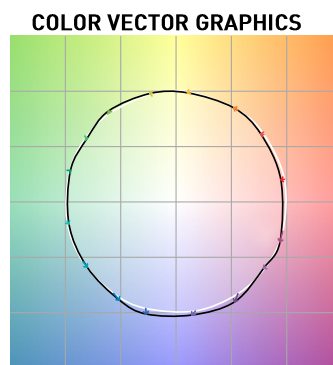
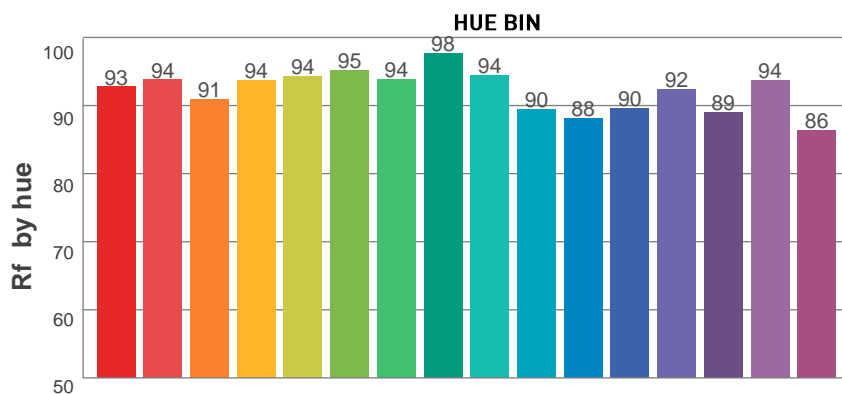
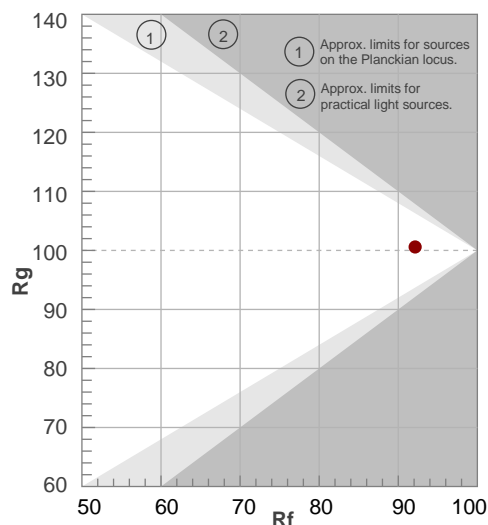
Rf 92.1

Fidelity index Rf

Rg 100.6

Gamut index Rg

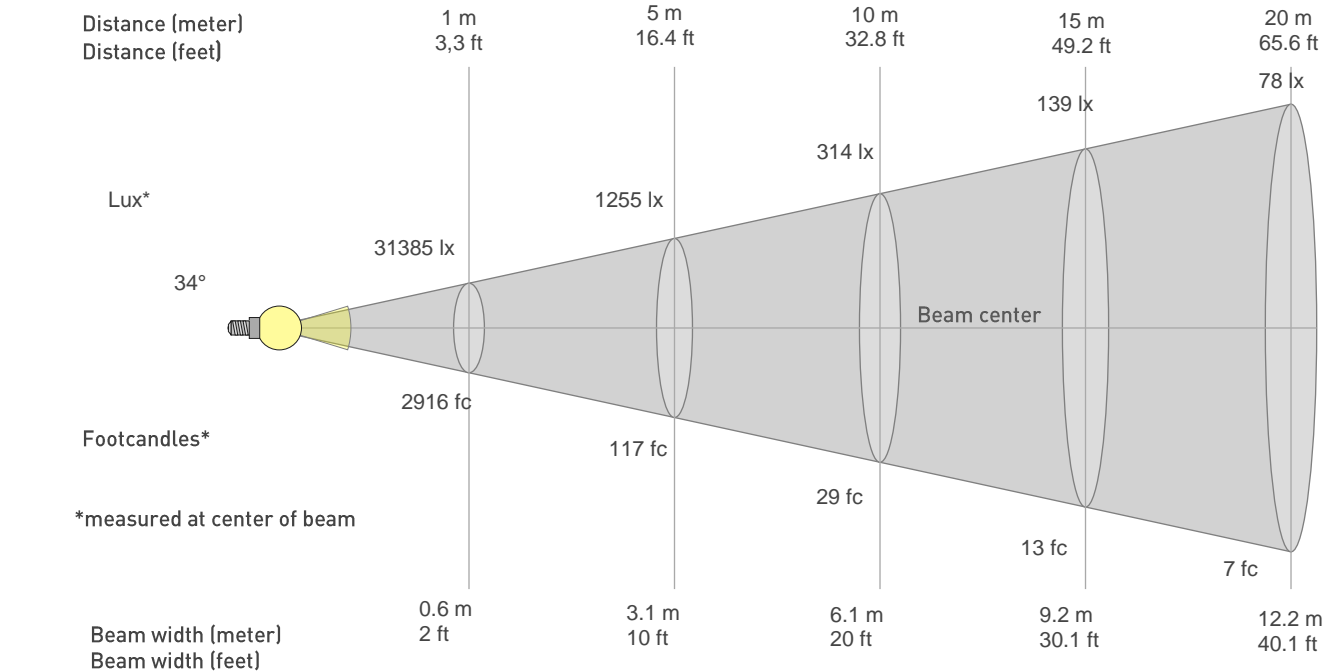
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	0%
2	94	-2%	2%
3	91	0%	4%
4	94	-1%	1%
5	94	1%	2%
6	95	2%	0%
7	94	-1%	-1%
8	98	-1%	-1%
9	94	-1%	3%
10	90	0%	6%
11	88	2%	8%
12	90	5%	1%
13	92	3%	-4%
14	89	4%	-6%
15	94	-1%	-3%
16	86	-1%	-10%



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BEAM DETAILS

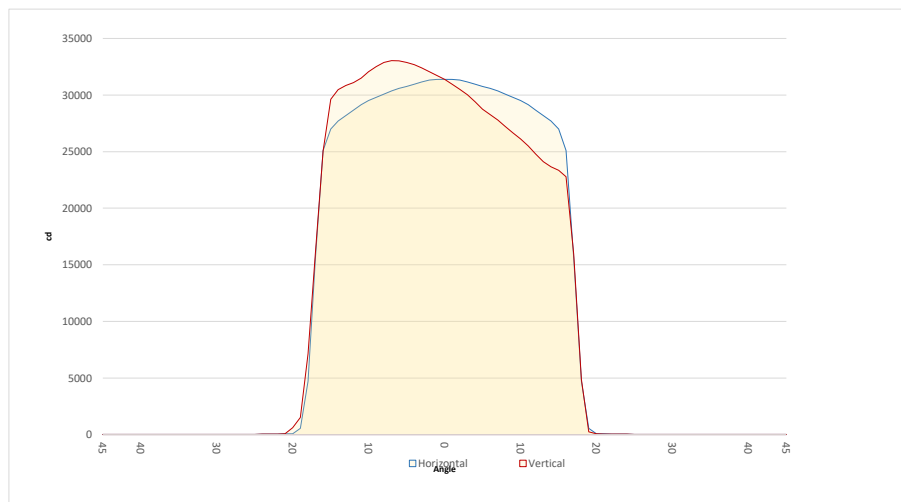


Beam width: $= 0.6 \times \text{distance}$
Illuminance: $= 31385 / (\text{distance}^2)$

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
31385lx	7846lx	3487lx	1962lx	1255lx	872lx	641lx	490lx	387lx	314lx	259lx	218lx	186lx	160lx	139lx	123lx	109lx	97lx	87lx	78lx
2915.8fc	728.9fc	324fc	182.2fc	116.6fc	81fc	59.5fc	45.6fc	36fc	29.2fc	24.1fc	20.2fc	17.3fc	14.9fc	13fc	11.4fc	10.1fc	9fc	8.1fc	7.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
34°	36.4°	37.6°