

Photometric Report

ELP WW IP – 19 degree

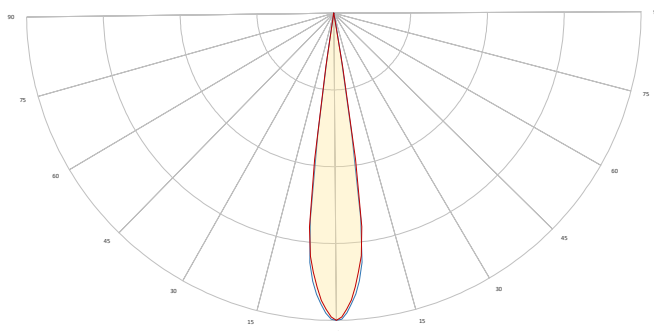
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	7500 lm
Light Engine Output:	16 klm
Efficacy:	28 Lumen/Watt
Lens Option:	19° Lens
Zoomrange:	19°
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:	7330 lm
Measured Peak:	131758 cd
Consumed Power:	250 W
Efficacy:	29.3 Lm/Watt

Beam Angle (50%):	15.6°
Field Angle (10%):	18.8°
Cutoff Angle (3%):	20°

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

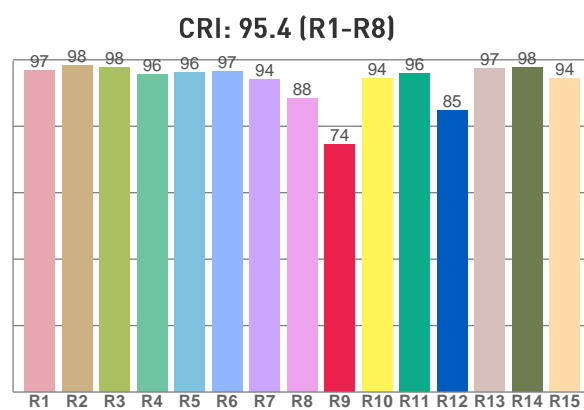
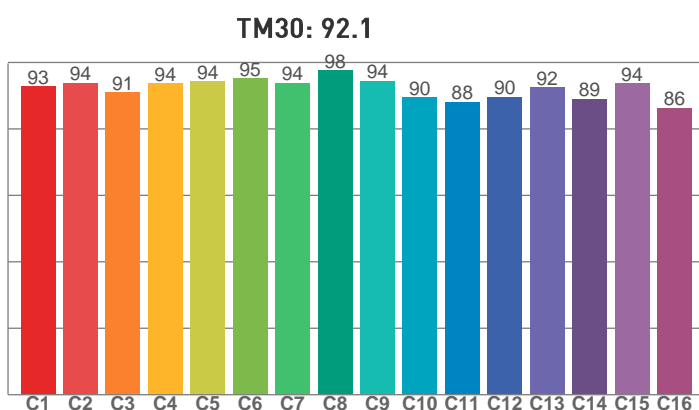
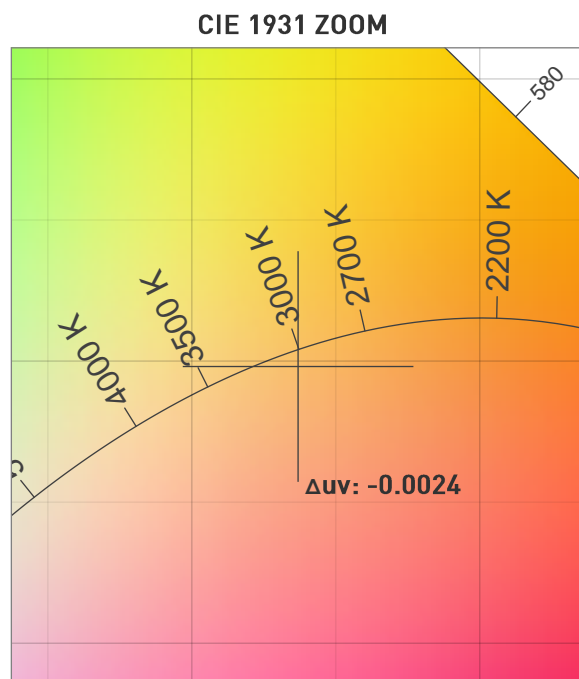
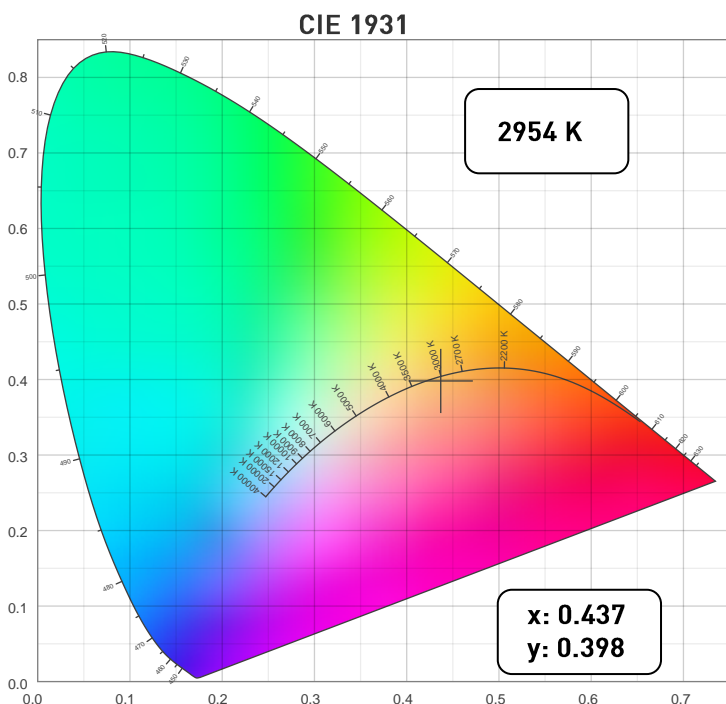
SPECTRAL DISTRIBUTION



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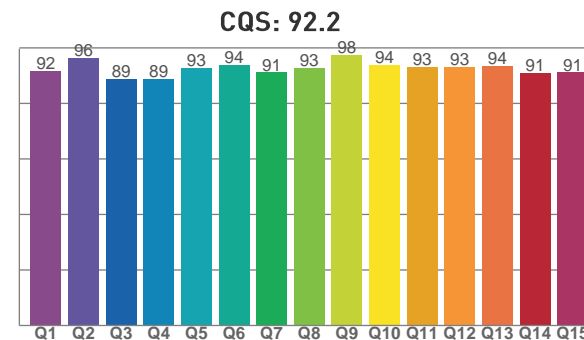
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CHROMATICITY



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

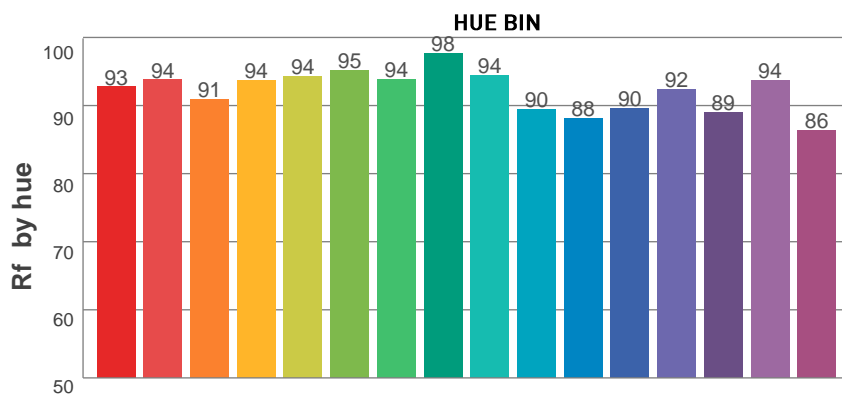
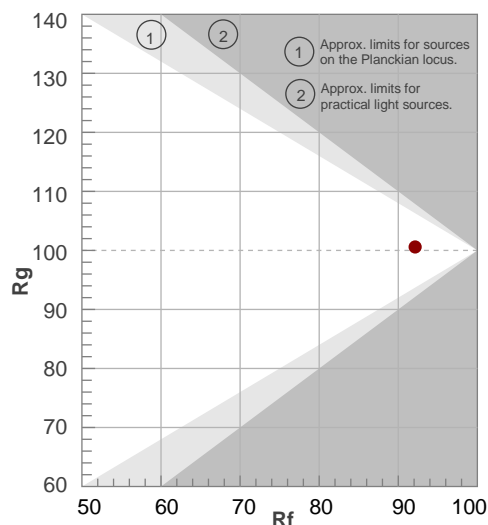
Rf 92.1

Fidelity index Rf

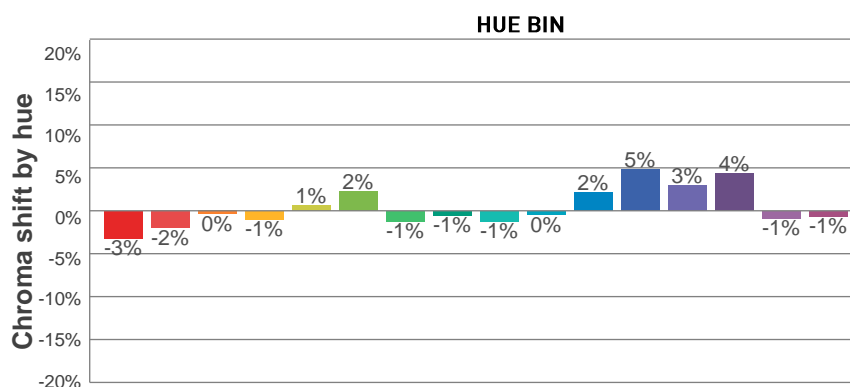
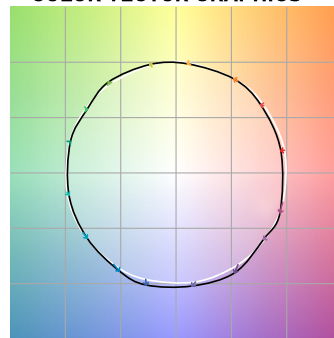
Rg 100.6

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%



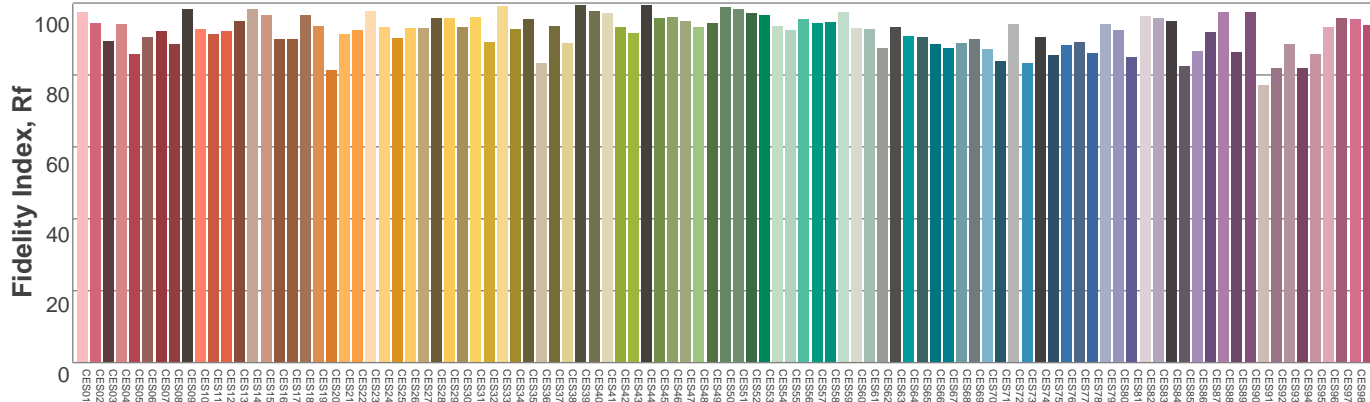
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



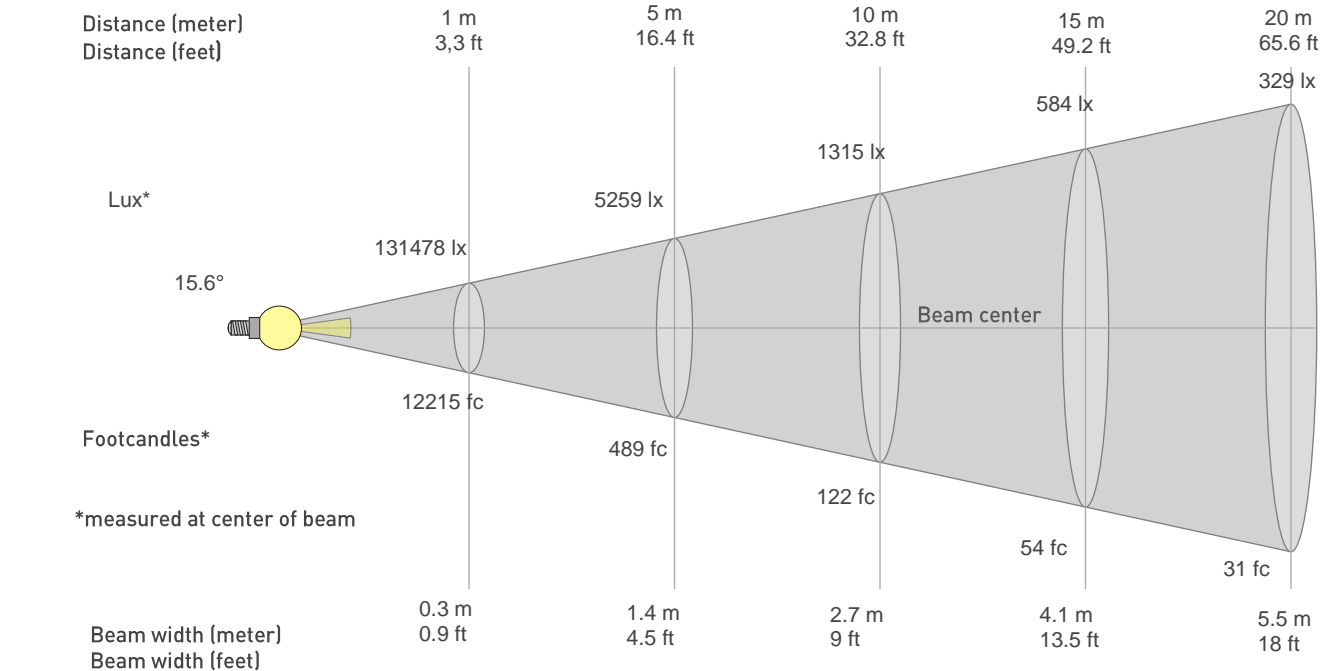
COLOR EVALUATION SAMPLE



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BEAM DETAILS

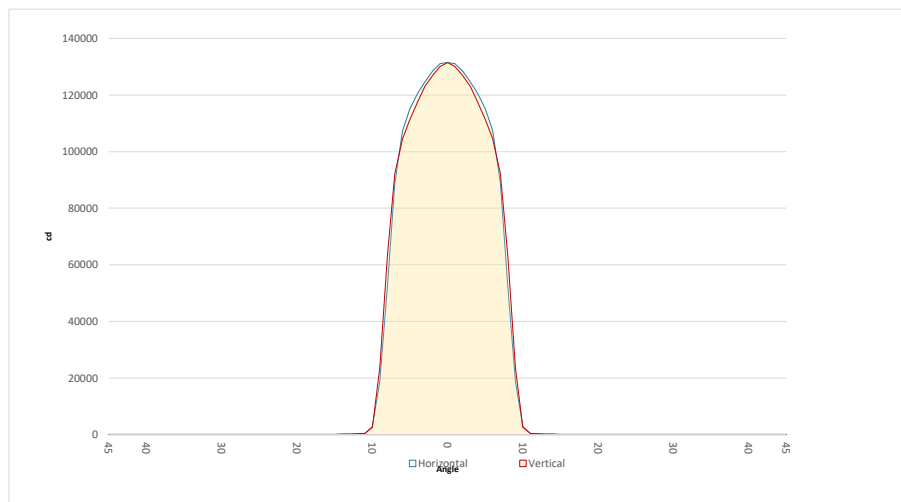


Beam width: = 0.3 * distance
Illuminance: = 131478 / (distance²)

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
131478lx	32869lx	14609lx	8217lx	5259lx	3652lx	2683lx	2054lx	1623lx	1315lx	1087lx	913lx	778lx	671lx	584lx	514lx	455lx	406lx	364lx	329lx
12214.7fc	3053.7fc	1357.2fc	763.4fc	488.6fc	339.3fc	249.3fc	190.9fc	150.8fc	122.1fc	100.9fc	84.8fc	72.3fc	62.3fc	54.3fc	47.7fc	42.3fc	37.7fc	33.8fc	30.5fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
15.6°	18.8°	20°